IBM Unica Marketing Platform Version 8 Release 6 June 30, 2012

Administrator's Guide



Note	g this informati	on and the pro	duct it supp	orts, read the	information i	n "Notices" on	page 509.	

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Contents

Chapter 1. Introduction to the IBM Unica	To remove a role
Marketing Platform 1	To assign a role to or remove a role from a group 24
About IBM Unica Marketing security features 1	To assign a role to or remove a role from a user 24
About configuration management	Reference: Definition of permission states 25
Localization in IBM Unica Marketing	Reference: Permissions for products that use only
The common user interface	basic roles
To log in to IBM Unica Marketing	Reference: Permissions for the Marketing
to log in to ibivi offica marketing	Platform
Chantar 2 Managing Internal Hoor	Reference: Permissions for Interaction History 27
Chapter 2. Managing Internal User	Reference: Permissions for Attribution Modeler 27
Accounts 5	
Types of user accounts: internal and external 5	Chapter 4. Managing Security in IBM
About properties of internal user accounts 5	Unica Campaign
To add a new user account 6	About security policies
To delete a user account	The global security policy
To change an internal user password expiration date 7	How Campaign evaluates permissions
To reset an internal user password	Using the Owner and Folder Owner roles 30
To change internal user account properties 8	Guidelines for designing security policies 31
To change internal user system status 8	Security scenarios
To add an internal user data source 8	Scenario 1: Company with a single division
To change an internal user data source password or	Scenario 2: Company with multiple separate
login name	divisions
To delete an internal user data source 9	Scenario 3: Restricted access within a division
Users window reference	Implementing security policies
Setting the per-user locale preference	To create a security policy
To set the user locale preference	To delete a security policy
Forcing synchronization of external users 12	Assigning security policies to folders or objects 37
To force synchronization of external users 12	About administrative permissions in Campaign 37
	To configure report folder permissions 38
Chapter 3. Managing Security in IBM	Reference: Administrative permissions in
Unica Marketing	Campaign
Where to find information on security	Windows impersonation administration
administration in IBM Unica Marketing 13	What is Windows impersonation?
About security administration in the Marketing	Why use Windows impersonation? 42
Platform	What is the relationship between Campaign users
About roles and permissions in Marketing Platform	and Windows users?
and Campaign	The Windows impersonation group 42
The security management process in the Marketing	Windows impersonation and logging into IBM
Platform	Unica Marketing
Types of groups: internal and external 15	Working with Windows impersonation 43
About partitions and security management 16	About support of Proxy Server Authentication 44
Pre-configured users and roles	To set authentication credentials for a virtual data
Retaining the platform_admin account 18	source named proxy 45
Managing internal groups	source number proxy
To add a new internal group 19	Chapter 5 Managing Configuration 47
To add a new subgroup	Chapter 5. Managing Configuration 47
To delete a group or subgroup 19	About property categories
To change a group or subgroup description 19	Identifying category types
To assign a group to a partition 20	Duplicating categories using templates 47
To add a user to a group or subgroup 20	Deleting categories
To remove a user from a group or subgroup 21	About property descriptions
User Groups window reference	About refreshing the display
Managing user roles and permissions	About the default user locale preference
To create a role	Editing property values
To modify role permissions	To navigate to a category
	To edit property values

Duplicating and deleting categories	50	Pre-defined portlet descriptions	
To delete a category	50	portlets	
Chapter 6. Configuring Reporting !	51	Campaign IBM Cognos report portlets	
About reporting in the IBM Unica Marketing suite		Campaign list portlets	
About reporting and security		Interact IBM Cognos report portlet	
About reporting schemas		Distributed Marketing list portlets	
About the Framework Manager data models		Optimize list portlets	
About the Report Studio reports		Attribution Modeler IBM Cognos report portlet	
Customizing reporting schemas	59	Interaction History IBM Cognos report portlet	
Which reporting schema?		Setting up dashboards	
To add contact or response metrics	60	Permissions required to administer dashboards	82
To add custom attributes	61	Dashboards and partitions	
To add response types		To enable or disable pre-defined portlets	
To add contact status codes		To create a dashboard	
To specify the calendar time periods for		To add a pre-defined portlet to a dashboard	
performance reports	62	To lay out a dashboard	84
To configure audience level for performance			84
reports and response history	62	To remove a portlet from a dashboard	
Creating reporting schemas for additional audience		To change the name or properties of a portlet	
levels or partitions	63	To change the name or properties of a dashboard	
To create a Campaign Offer Response Breakout		To delete a dashboard	
schema	63	Creating and using custom portlets	
To create a Campaign Offer Contact Status		Custom portlet types and availability	
Breakout schema		Authentication considerations for custom portlets	
To create an Offer Performance schema		Portlet creation process overview	86
To create a Campaign Performance schema		To prepare the URL from an on-premises	07
To create a Campaign Custom Attributes schema		NetInsight report	87
To create a new Interact Performance schema		To prepare the URL from an IBM Cognos	05
0 1	67	dashboard report	07
Before you begin updating views or reporting		Web Analytics report	88
tables	67	To prepare the URL from an intranet or internet	00
Generate updated SQL scripts for the reporting	. =	page	88
views or tables	67	To add a user-created portlet to a dashboard	
Update the views or reporting tables	68	Manage Portlets window reference	
SQL scripts by data source			89
Reports SQL Generator page reference	69 70		89
Customizing the IBM Cognos Model	70	To grant or remove dashboard membership	
Example: Add attributes to an existing view or table in a data model	71	9	
Example: Add new views to IBM Cognos 8 data	/1	Chapter 8. Scheduling Runs with the	
model	71	IBM Unica Scheduler	01
About customizing or creating Cognos reports for	/ 1		ЭI
0 0 1	72	Difference between the Campaign Schedule process and IBM Unica Scheduler	01
Guidelines for creating new Campaign reports		Scheduler triggers	
Configuring the Interaction Point Performance	70		
	73	Inbound triggers	
-	74	Scheduler throttling	
curucinies for creating new dustris curu reports		Run dependency	
Chapter 7. Creating and Managing		Time zone support	
	75	Scheduler limitations	
Dashboards		Permissions for scheduling flowcharts	
About IBM Unica pre-defined portlets	75	Scheduler run parameters	
Planning dashboards		Overriding the default parameters for Campaign	,
Dashboard audiences		flowchart runs	96
Global dashboards		Creating schedules	
User permissions required to view dashboards		To create a flowchart schedule using default	
IBM Unica pre-defined portlet availability		parameters	96
IBM Cognos report performance considerations		To create a flowchart schedule by overriding the	- 0
To schedule a dashboard report	10	default parameters	97

Override Flowchart Parameters window reference 99 Managing schedules 99 Scheduler management window reference 99 The Chapter 9. Enabling single sign-on between IBM Unica Marketing and IBM Coremetrics Web Analytics 101 To set up single sign-on between IBM Unica Marketing and IBM Coremetrics using automatic user account creation 102 To set up single sign-on between IBM Unica Marketing and IBM Coremetrics using manual user account creation 102 To configure your web application server for single sign-on between IBM Unica Marketing 104 Chapter 10. Integrating with Windows Active Directory integration prerequisites 109 How to integrate IBM Unica Marketing with Windows Active Directory integration prerequisites 109 Configuration process checklist (Active Directory integration in IBM Unica Marketing 130 Configuration process checklist (Active Directory integration in IBM Unica Marketing 130 Configuration process checklist (Active Directory integration in IBM Unica Marketing 130 Configuration process checklist (Active Directory integration) 100 Plan group membership and mapping 111 Set up an Active Directory user 115 Restart the web application server 115 Restart the web application in IBM Unica Marketing 115 Assign notes to mapped groups 115 Restart the web application server 115 Configure notes to mapped groups 115 Restart the web application server 115 Test login as an Active Directory user 115 That pit integration features 117 LDAP integration prerequisites 120 StieMinder integration prerequisites 134 Access Control Platforms 13 133 Configure web access control integration in IBM Unica Marketing With a Web access control integration in IBM Unica Marketing With a Meharketing with Windows Active Directory user 107 Active Directory integration of Eatlers 130 Configure Web Ac
Managing schedules Scheduler management window reference 99 Scheduler management window reference 130 Invoice Marketing process checklist (Web access control platform 103 To set up single sign-on between IBM Unica Marketing and IBM Coremetrics using automatic user account creation 103 To set up single sign-on between IBM Unica Marketing and IBM Coremetrics using automatic user account creation 103 To set up single sign-on between IBM Unica Marketing and IBM Coremetrics using automatic user account creation 103 To set up single sign-on between IBM Unica Marketing and IBM Coremetrics using automatic user account creation 103 To set up single sign-on between IBM Unica Marketing and IBM Unica Marketing and IBM Coremetrics using automatic user account creation 103 To set up single sign-on between IBM Unica Marketing and IBM Unica Marketing 103 To configure your web application server for SSL 141 Unica Marketing IBM Unica Marketing 103 To set up single sign-on between IBM Unica Marketing 104 Schepter 10. Integration features 107 Configurate IBM Unica Marketing 108 Unica Marketi
Scheduler management window reference 99 Chapter 9. Enabling single sign-on between IBM Unica Marketing and IBM Coremetrics Web Analytics 101 To set up single sign-on between IBM Unica Marketing and IBM Coremetrics using automatic user account creation 102 To set up single sign-on between IBM Unica Marketing and IBM Coremetrics using manual user account creation 103 To configure your web application server for single sign-on between IBM Unica Marketing 103 To configure your web application server for single sign-on between IBM Unica Marketing 103 To configure your web application server for single sign-on between IBM Unica Marketing 104 Unica Marketing 105 Unica Marketing 106 Unica Marketing 107 Active Directory integration features 107 Active Directory integration features 107 Configuration process checklist (Meb access control integration in IBM Unica Marketing 103 IBM Unica Marketing 104 Unica Marketing 105 IBM Unica Marketing 107 Chapter 10. Integrating with Windows Active Directory 107 Configuration process checklist (Meb access control integration in IBM Unica Marketing 108 Unica Marketing 108 Unica Marketing 109 Unica Marketing 100 Unica Marketing 109 Unica Mar
Chapter 9. Enabling single sign-on between IBM Unica Marketing and IBM Coremetrics Web Analytics 101 To set up single sign-on between IBM Unica Marketing and IBM Coremetrics using automatic user account creation 102 To set up single sign-on between IBM Unica Marketing and IBM Coremetrics using manual user account creation 103 To cortigure your web application server for single sign-on between IBM Unica Marketing and IBM Coremetrics using manual user account creation 103 To configure your web application server for single sign-on between IBM Unica Marketing 104 Chapter 10. Integrating with Windows Active Directory untegration features 107 Active Directory integration features 107 Active Directory integration prerequisites 109 How to integrate IBM Unica Marketing with Windows Active Directory integration precquisites 109 Obtain required information 100 Obtain required information 100 Obtain required information 101 Store directory server credentials in the Marketing Platform 101 Store directory server credentials in the Marketing Platform 101 Store directory server credentials in the Marketing Platform 101 Store directory server credentials in the Marketing Platform 101 Store directory server credentials in the Marketing Platform 101 Store directory server credentials in the Marketing Platform 101 Store directory server credentials in the Marketing Platform 101 Store directory server credentials in the Marketing Platform 101 Store directory server credentials in the Marketing Platform 101 Store directory server credentials in the Marketing Platform 101 Store directory server credentials in the Marketing Platform 102 Store directory server credentials in the Marketing Platform 103 Store directory server credentials in the Marketing Platform 104 Set security mode to Windows Integrated Login 105 Configure integration in IBM Unica Marketing 104 Set security mode to Windows Integrated Login 105 Test login as an Active Directory user 105 Test login as an Active Directory user 105 Test login as an Active Directory user
Chapter 9. Enabling single sign-on between IBM Unica Marketing and IBM Coremetrics Web Analytics 101 To set up single sign-on between IBM Unica Marketing and IBM Coremetrics using automatic user account creation 102 To set up single sign-on between IBM Unica Marketing and IBM Coremetrics using manual user account creation 103 To configure your web application server for single sign-on between IBM Unica Marketing 104 Chapter 10. Integrating with Windows Active Directory integration features 107 Active Directory integration prerequisites 109 How to integrate IBM Unica Marketing with Windows Active Directory integration process checklist (Active Directory integration) 109 Configure integration 109 Plan group membership and mapping 111 Store directory server credentials in the Marketing Platform 111 Configure integration in IBM Unica Marketing 112 Configure provinces and IBM Unica Marketing 113 Set up an Active Directory user with PlatformAdminkole permissions 114 Set ye up an Active Directory user with PlatformAdminkole permissions 115 Test login as an Active Directory user 115 The plan to integrate IBM Unica Marketing with an IDAP server 117 IDAP integration and 133 Configure your active placetion in IBM Unica Marketing 136 Configure your set access control synchronization and IBM Unica Marketing SSL in IBM Unica Marketing 136 Chapter 13. Implementing SSL in IBM Unica Marketing 136 Chapter 13. Implementing SSL in IBM Unica Marketing 136 Chapter 13. Implementing SSL in IBM Unica Marketing 136 Chapter 13. Implementing SSL in IBM Unica Marketing 136 Chapter 13. Implementing SSL in IBM Unica Marketing 136 Configure volue veb application server 137 How to integrate IBM Unica Marketing 138 Configure your web application servers for SSL 144 Configuration process checklist (SSL) 138 Configure integration in IBM Unica Marketing 138 Chapter 13. Implementing SSL in IBM Unica Marketing 136 Chapter
Detween IBM Unica Marketing and IBM Coremetrics Web Analytics
IBM Coremetrics Web Analytics 101 To set up single sign-on between IBM Unica Marketing and IBM Coremetrics using automatic user account creation 102 To set up single sign-on between IBM Unica Marketing and IBM Coremetrics using manual user account creation 103 To configure your web application server for single sign-on between IBM Unica Marketing 104 Chapter 10. Integrating with Windows Active Directory 107 Active Directory integration features 107 Active Directory integration prerequisites 107 Active Directory integration prerequisites 109 How to integrate IBM Unica Marketing with Windows Active Directory integration 109 Configuration process checklist (Active Directory integration) 109 Obtain required information 110 Plan group membership and mapping 111 Store directory sever credentials in the Marketing Platform 111 Configure integration in IBM Unica Marketing 114 Set security mode to Windows Integrated Login Assign roles to mapped groups 115 Restart the web application server 115 Test login as an Active Directory user with PlatformAdminRole permissions 114 Set security mode to Windows Integrated Login Assign roles to mapped groups 115 Test login as an Active Directory user 115 Test login as an Active Directory user 117 LDAP integration prerequisites 117 LDAP server 11
To set up single sign-on between IBM Unica Marketing and IBM Coremetrics using automatic user account creation
Marketing and IBM Coremetrics using automatic user account creation. 102 To set up single sign-on between IBM Unica Marketing and IBM Coremetrics using manual user account creation 103 Marketing and IBM Coremetrics using manual user account creation 104 To configure your web application server for single sign-on between IBM Coremetrics and IBM Unica Marketing 104 Chapter 10. Integrating with Windows Active Directory 105 Active Directory integration features 107 Active Directory integration prerequisites 109 How to integrate IBM Unica Marketing with Windows Active Directory 105 Configuration process checklist (Active Directory integration) 109 Obtain required information 110 Store directory server credentials in the Marketing Platform 111 Set security mode to Windows Integrated Login Assign roles to mapped groups 115 Test login as an Active Directory user 115 Configure browsers 115 Test login as an Active Directory user 117 LDAP integration features 119 LDAP server 119 Configure web access control integration in IBM Unica Marketing login. 133 Restart the web application server 133 Restart the web application server 132 LEMP server 105 Long Marketing login. 133 Long Marketing login. 133 Restart the web application server 133 LEM which arketing login. 133 LEM warketing login. 133 LEM warketing login. 133 LEM warketing login. 132 Long Marketing login. 132 Long Marketi
user account creation. To set up single sign-on between IBM Unica Marketing and IBM Coremetrics using manual user account creation To configure your web application server for single sign-on between IBM Coremetrics and IBM Unica Marketing Chapter 10. Integrating with Windows Active Directory integration features Active Directory integration features How to integrate IBM Unica Marketing with Windows Active Directory integration prerequisites Directory integration features Directory integration) Obtain required information Assign roles to mapped groups Assign roles to mapped groups Chapter 11. Integrating with an LDAP server LDAP integration prerequisites 103 Restart the web application server 104 Restart the web application server 105 Test web access control synchronization and IBM Unica Marketing login. 106 Chapter 13. Implementing SSL in IBM Unica Marketing 107 Chapter 13. Implementing SSL in IBM Unica Marketing 108 Chapter 13. Implementing SSL in IBM Unica Marketing 109 Chapter 13. Implementing SSL in IBM Unica Marketing 107 Chapter 13. Implementing SSL in IBM Unica Marketing 108 Chapter 13. Implementing SSL in IBM Unica Marketing 109 Chapter 13. Implementing SSL in IBM Unica Marketing 107 Chapter 13. Implementing SSL in IBM Unica Marketing 108 Chapter 13. Implementing SSL in IBM Unica Marketing 109 Chapter 13. Implementing SSL in IBM Unica Marketing 109 Configuration process checklist (SSL) 109 Configuration process checklist (SSL) 109 Configuration process checklist (SSL) 109 Configure your web application server for SSL 140 Configure your web application servers for SSL 141 Useful links for SSL Chapter 14. Setting Up Data Filters 144 Chapter 14. Setting Up Data Filters 145 About setting up data filters automatic generation and manual specification. 156 Chapter 14. Setting Up Data Filters 157 Two ways to create data filters. 158 159 150 151 152 153 154 155 155 155 156 157 157 157 157
To set up single sign-on between IBM Unica Marketing and IBM Coremetrics using manual user account creation
Marketing and IBM Coremetrics using manual user account creation
account creation 103 To configure your web application server for single sign-on between IBM Coremetrics and IBM Unica Marketing 104 Chapter 10. Integrating with Windows Active Directory 107 Active Directory integration features 107 Active Directory integration features 109 How to integrate IBM Unica Marketing with Windows Active Directory 109 Configuration process checklist (Active Directory integration prerequisites 109 Directory integration Marketing with Windows Active Directory 109 Configuration process checklist (Active Directory 109 Configuration process checklist (Active Directory 109 Directory integration 110 Plan group membership and mapping 111 Store directory server credentials in the Marketing Platform 111 Configure integration in IBM Unica Marketing 112 Test synchronization 114 Set up an Active Directory user with PlatformAdminRole permissions 114 Set security mode to Windows Integrated Login 115 Restart the web application server 115 Restart the web application server 115 Test login as an Active Directory user 115 Test login as an Active Directory 115 Test login as an Active Directory 115 Test login as an Active Directory 115 Test login as an Active Di
To configure your web application server for single sign-on between IBM Coremetrics and IBM Unica Marketing
Chapter 10. Integrating with Windows Active Directory
Marketing
Chapter 10. Integrating with Windows Active Directory
Chapter 10. Integrating with Windows Active Directory
Active Directory
Active Directory integration features 107 Active Directory integration prerequisites 109 How to integrate IBM Unica Marketing with Windows Active Directory 109 Configuration process checklist (Active Directory integration) 109 Obtain required information 110 Plan group membership and mapping 111 Store directory server credentials in the Marketing Platform 111 Configure integration in IBM Unica Marketing 112 Test synchronization 114 Set up an Active Directory user with PlatformAdminRole permissions 114 Set security mode to Windows Integrated Login Assign roles to mapped groups 115 Restart the web application server 115 Configure browsers 115 Test login as an Active Directory user 115 Chapter 11. Integrating with an LDAP server 110 LDAP integration prerequisites 119 How to integrate IBM Unica Marketing with an LDAP server 119 LDAP server 119 How to implement SSL in IBM Unica Marketing 138 Configuration process checklist (SSL) 138 Obtain or create certificates 138 Configuration process checklist (SSL) 138 Obtain or create certificates 138 Configuration process checklist (SSL) 138 Obtain or create certificates 138 Configure your web application servers for SSL 141 Configure your web application servers for SSL 141 Configure IBM Unica Marketing for SSL 141 Configure IBM Uni
Active Directory integration features 107 Active Directory integration prerequisites 109 How to integrate IBM Unica Marketing with Windows Active Directory 109 Configuration process checklist (Active Directory integration) 109 Obtain required information 110 Plan group membership and mapping 111 Store directory server credentials in the Marketing Platform 111 Configure integration in IBM Unica Marketing 112 Test synchronization 114 Set up an Active Directory user with PlatformAdminRole permissions 114 Set security mode to Windows Integrated Login Assign roles to mapped groups 115 Restart the web application server 115 Configure browsers 115 Test login as an Active Directory user 115 Test login as an Active Directory user 115 Chapter 11. Integrating with an LDAP server 11. Integration features 117 LDAP integration prerequisites 119 How to integrate IBM Unica Marketing 118 Configuration process checklist (SSL) 138 Obtain or create certificates
Active Directory integration prerequisites . 109 How to integrate IBM Unica Marketing with Windows Active Directory . 109 Configuration process checklist (Active Directory integration) . 109 Obtain required information . 110 Plan group membership and mapping . 111 Store directory server credentials in the Marketing Platform . 111 Configure integration in IBM Unica Marketing 112 Test synchronization . 114 Set up an Active Directory user with PlatformAdminRole permissions . 114 Set security mode to Windows Integrated Login Assign roles to mapped groups . 115 Restart the web application server . 115 Configure browsers . 115 Test login as an Active Directory user . 117 LDAP integration features . 117 LDAP integration prerequisites . 119 How to integrate IBM Unica Marketing with an LDAP server . 119 LDAP server . 119 Configuration process checklist (SSL) . 138 Obtain or create certificates 138 Configure your web application servers for SSL . 141 Verify your SSL configuration . 146 Useful links for SSL . 141 Verify your SSL configuration . 146 Useful links for SSL . 147 Verify your SSL configuration . 146 Useful links for SSL . 147 Verify your SSL configuration . 146 Useful links for SSL . 147 Verify your SSL configuration . 146 Useful links for SSL . 147 Verify your SSL configuration . 146 Useful links for SSL . 147 Verify your SSL configuration . 146 Useful links for SSL . 147 Verify your SSL configuration . 146 Useful links for SSL . 147 Verify your SSL configuration . 146 Useful links for SSL . 147 Verify your SSL configuration . 146 Useful links for SSL . 147 Verify your SSL configuration . 146 Useful links for SSL . 147 Verify your SSL configuration . 146 Useful links for SSL . 147 Verify your SSL configuration . 146 Useful links for SSL . 147 Verify your SSL configuration . 146 Useful links for SSL . 147 Verify your SSL configuration . 146 Useful links for SSL . 147 Verify your SSL configuration . 146 Useful links for SSL . 147 Verify your SSL configuration . 146 Useful links for SSL . 141 Verify your SSL
How to integrate IBM Unica Marketing with Windows Active Directory
Windows Active Directory
Configuration process checklist (Active Directory integration). 109 Obtain required information 110 Plan group membership and mapping 111 Store directory server credentials in the Marketing Platform 111 Configure integration in IBM Unica Marketing 112 Test synchronization 114 Set up an Active Directory user with PlatformAdminRole permissions 114 Set security mode to Windows Integrated Login Assign roles to mapped groups 115 Restart the web application server 115 Configure browsers 115 Test login as an Active Directory user 115 Chapter 11. Integrating with an LDAP server 115 LDAP integration prerequisites 119 How to integrate IBM Unica Marketing with an LDAP server 119 Configure IBM Unica Marketing for SSL 144 Verify your SSL configuration . 146 Verify your SSL configuration . 147 Verify your SSL configuration . 146 Nabout setting up data filters . 149 Two ways to create data filters using manual specification 150 Float filter sosociations to restrict user access 149 Two ways to create data filters using on the pou
Directory integration). 109 Obtain required information 110 Plan group membership and mapping 111 Store directory server credentials in the Marketing Platform 111 Configure integration in IBM Unica Marketing 112 Test synchronization 114 Set up an Active Directory user with PlatformAdminRole permissions 114 Set security mode to Windows Integrated Login 115 Assign roles to mapped groups 115 Configure browsers 115 Test login as an Active Directory user 115 Test login as an Active Directory user 115 LDAP integration features 117 LDAP integration prerequisites 119 LDAP server 119 Description of the Verify your SSL configuration 114 Useful links for SSL 14 Logue Lagration SSL 14 Useful links for SSL 14 Logue Lagration SSL 14 Useful links for SSL 14 Logue Lagration In
Obtain required information
Plan group membership and mapping
Store directory server credentials in the Marketing Platform
Configure integration in IBM Unica Marketing Test synchronization
Configure integration in IBM Unica Marketing Test synchronization
Set up an Active Directory user with PlatformAdminRole permissions
Set up an Active Directory user with PlatformAdminRole permissions
PlatformAdminRole permissions
Set security mode to Windows Integrated Login Assign roles to mapped groups
Restart the web application server
Restart the web application server
Test login as an Active Directory user
Test login as an Active Directory user
Chapter 11. Integrating with an LDAP server
Server.117specification)
LDAP integration features
LDAP integration features
LDAP integration prerequisites
How to integrate IBM Unica Marketing with an LDAP server 119 Populate the data filter system tables 152 Assign users and groups to data filters 152
LDAP server 119 Assign users and groups to data filters 152
Configuration process checklist (LDAP Data filter XML reference (manual specification) 152
integration) 119 Example: Manually specifying data filters 155
Obtain required information
Plan group membership and mapping 121 specification
Store directory server credentials in the Configuration Process Checklists 160
Marketing Platform
Configure integration in IBM Unica Marketing 122 Plan your data filter criteria (automatic
Configure integration in IBM Unica Marketing Test synchronization 124 Plan your data filter criteria (automatic generation)
Configure integration in IBM Unica Marketing Test synchronization
Configure integration in IBM Unica Marketing Test synchronization 124 Plan your data filter criteria (automatic generation)

Create the XML to specify data filters (automatic	Appendix A. Configuration Properties
generation)	on the Configuration Page 203
Assign users and groups to data filters 162	Marketing Platform configuration properties 203
Data filter XML reference (automatic generation) 162	General Navigation
Example: Automatically generating a set of data	General Data filtering
filters	General Password settings 204
How to add data filters after the initial set has	General Miscellaneous
been created	Platform
	Platform Scheduler Recurrence definitions 209
Chapter 15. Managing Data Filters 173	Platform Scheduler Schedule registrations
Restricting data access through user and group	Campaign [Object type] 211
assignments	Platform Scheduler Schedule registrations
About advanced search	Campaign [Object type] [Throttling group] . 212
Managing data filter assignments 174	Platform Security
To view assigned data filters	Platform Security Login method details
To assign users and groups to data filters 174	Windows integrated login 212
To remove data filter assignments	Platform Security Login method details LDAP
Chapter 16. IBM Unica Marketing	Platform Security Login method details
Platform Logs 177	Web access control
About the system log	Platform Security Login method details
Configuring the system log	LDAP synchronization 218
companing the system log	Platform Security Login method details
Chapter 17. Configuration Process	LDAP synchronization LDAP reference to
	Unica group map 226
Checklists	IBM Coremetrics configuration properties 226
Configuration process checklist (manual	Coremetrics
specification of data filters)	Coremetrics Integration partitions
integration)	partition[n]
Configuration process checklist (LDAP integration) 182	Interaction History Configuration Properties
Configuration process checklist (Web access control	Interaction History navigation
integration)	Interaction History partitions partition[n]
Configuration process checklist (SSL) 183	datasource
	Interaction History partitions partition[n]
Chapter 18. IBM Unica Marketing	configuration
Platform Utilities and SQL Scripts 185	Interaction History partitions partition[n]
Running Marketing Platform utilities on additional	CoreMetrics
machines	Interaction History partitions partition[n]
To set up Marketing Platform utilities on	CampaignAndInteract
additional machines	Interaction History partitions partition[n]
Reference: Marketing Platform utilities 187	eMessage
The configTool utility	Interaction History partitions partition[n]
The datafilteringScriptTool utility 191	Reports
The encryptPasswords utility 192	Attribution Modeler configuration properties 237
The partitionTool utility	Attribution Modeler navigation
The populateDb utility 196	AttributionModeler AMListener
The restoreAccess utility 196	AttributionModeler partitions partition[n] AMFields
The scheduler_console_client utility 198	Attribution Modeler partitions partition[n] 241
About Marketing Platform SQL scripts 199	Attribution Modeler partitions partition[n]
Reference: Marketing Platform SQL scripts 200	dataSources
Removing all data	AttributionModeler partitions partition[n]
(ManagerSchema_DeleteAll.sql) 200	server encoding
Removing data filters only (ManagerSchema_PurgeDataFiltering.sql) 200	AttributionModeler partitions partition[n]
Removing system tables	server logging
(ManagerSchema_DropAll.sql) 201	Attribution Modeler partitions partition[n]
Creating system tables	AdvancedOptions 244
201	Reporting configuration properties 245
	Reports Integrations Cognos [version] 246

Reports Schemas [product] [schema	Marketing Operations umoConfiguration
name] SQL Configuration 249	thumbnailGeneration 286
Reports Schemas Campaign 250	Marketing Operations umoConfiguration
Reports Schemas Campaign Offer	notifications 286
Performance	Marketing Operations umoConfiguration
Reports Schemas Campaign [schema	notifications email 288
name] Columns [Contact Metric] 251	Marketing Operations umoConfiguration
Reports Schemas Campaign [schema	notifications project 290
name] Columns [Response Metric] 252	Marketing Operations umoConfiguration
Reports Schemas Campaign Performance 253	notifications projectRequest 292
Reports Schemas Campaign Offer	Marketing Operations umoConfiguration
Response Breakout	notifications program 293
Reports Schemas Campaign Offer	Marketing Operations umoConfiguration
Response Breakout [Response Type] 255	notifications marketingObject 293
Reports Schemas Campaign Campaign	Marketing Operations umoConfiguration
Offer Contact Status Breakout	notifications approval 294
Reports Schemas Campaign Campaign	Marketing Operations umoConfiguration
Offer Contact Status Breakout [Contact Status	notifications asset
Code]	Marketing Operations umoConfiguration
Reports Schemas Campaign Custom	notifications invoice
Attributes Columns [Campaign Custom	Campaign configuration properties 296
Column]	Campaign
Reports Schemas Campaign Custom	Campaign Collaborate 297
Attributes Columns [Offer Custom Column] 258	Campaign navigation 298
Reports Schemas Campaign Custom	Campaign caching
Attributes Columns [Cell Custom Column] . 259	Campaign partitions 301
Reports Schemas Interact 260	Campaign partitions partition[n]
Reports Schemas Interact Interact	eMessage
Performance	Campaign partitions partition[n] reports 303
Reports Schemas eMessage 261	Campaign partition[n] validation 305
Marketing Operations configuration properties 262	Campaign partitions partition[n]
Marketing Operations	audienceLevels audienceLevel 306
Marketing Operations Navigation 262	Campaign partitions partition[n]
Marketing Operations About 264	audienceLevels audienceLevel field[n] 307
Marketing Operations umoConfiguration 265	Campaign Partitions partition[n]
Marketing Operations umoConfiguration	dataSources
templates	Campaign partitions partition[n]
Marketing Operations umoConfiguration	systemTableMapping
attachmentFolders	Campaign partitions partition[n] server
Marketing Operations umoConfiguration	systemCodes
email	Campaign partitions partition[n] server
Marketing Operations umoConfiguration	encoding
markup	Campaign partitions partition[n] server
Marketing Operations umoConfigurations	timeout
grid	Campaign partitions partition[n] server
Marketing Operations umoConfiguration	collaborate
workflow	Campaign partitions partition[n] server
Marketing Operations umoConfiguration	permissions
integrationServices	Campaign partitions partition[n] server
Marketing Operations umoConfiguration	flowchartConfig
campaignIntegration 279	Campaign partitions partition[n] server
Marketing Operations umoConfiguration	flowchartSave
reports	Campaign partitions partition[n] server
Marketing Operations umoConfiguration	dataProcessing
invoiceRollup 280	Campaign partitions partition[n] server
Marketing Operations umoConfiguration	optimization
database	Campaign partitions partition[n] server
Marketing Operations umoConfiguration	logging
listingPages	Campaign partitions partition[n] server
Marketing Operations umoConfiguration	flowchartRun
objectCodeLocking 284	

Campaign partitions partition[n] server	Campaign partitions partition[n] Optimize
profile	AlgorithmTuning 455
Campaign partitions partition[n] server	Campaign partitions partition[n] Optimize
internal	Debug
Campaign partitions partition[n] server	Campaign partitions partition[n] Optimize
fileDialog	l logging
Campaign partitions partition[n]	Campaign unicaACOOptAdmin 461
offerCodeGenerator	Distributed Marketing configuration properties 463
Campaign monitoring	Navigation
Campaign ProductReindex 385	Configuration Settings 464
Campaign unicaACListener	
Campaign server	Appendix B. Style Guide for the
Campaign logging 391	Cognos Reports 491
eMessage configuration properties	Global report styles
eMessage serverComponentsAndLocations	Report page styles
hostedServices	List report styles
eMessage partitions partition[n]	Crosstab report styles
hostedAccountInfo	Chart styles
eMessage partitions partition[n]	Dashboard report styles
dataSources systemTables	Dustibouite report styles
eMessage partitions partition[n]	Appendix C. Reports and Reporting
recipientListUploader	
eMessage partitions partition[n]	Schemas 499
responseContactTracker	eMessage Reports and Reporting Schemas 501
Interact configuration properties	Interact Reports and Reporting Schemas 502
Interact runtime environment configuration	
properties	Appendix D. Re-branding the IBM
Interact design environment configuration	Unica Frameset 505
properties	To prepare your corporate theme 505
Optimize configuration properties 452	To apply your corporate theme 506
Campaign unicaACOListener 452	
Campaign partitions partition[n] Optimize	Contacting IBM Unica technical
sessionRunMonitor 454	support 507
Campaign partitions partition[n] Optimize	Support
MemoryTuning 455	AL 1'
Campaign partitions partition[n] Optimize	Notices 509
LuserTemplateTables 455	Tradomarks 511

Chapter 1. Introduction to the IBM Unica Marketing Platform

The IBM® Unica® Marketing Platform provides the following features.

- Support for reporting for many products in IBM Unica Marketing.
- Support for security in IBM applications, including authentication and authorization.
- Configuration management, including setting user locale preferences and an interface for editing configuration properties for some IBM Unica Marketing applications.
- A scheduler that enables you to configure a process to run at intervals that you
 define.
- Dashboard pages that you can configure to include information useful to groups of users who fill various roles within your company.
- A common user interface for IBM products.

About IBM Unica Marketing security features

The security features in the Marketing Platform consist of a central repository and web-based interface where IBM Unica Marketing internal users are defined and where users are assigned various levels of access to functions within IBM Unica Marketing applications.

IBM Unica Marketing applications use the security features of the Marketing Platform to authenticate users, check user application access rights, and store user database credentials and other necessary credentials.

Security technologies used in IBM Unica

The Marketing Platform employs industry-standard encryption methods to perform authentication and enforce security across all IBM Unica Marketing applications. User and database passwords are protected using a variety of encryption technologies.

Permission management through roles

The Marketing Platform defines the user's basic access to the functions within most IBM Unica Marketing applications. In addition, for Campaign and the Marketing Platform, you can control a user's access to functions and objects within the application.

You can assign various permissions to roles. You can then manage user permissions in either of the following ways.

- · By assigning roles to individual users
- By assigning roles to groups and then making users a member of that group

About Campaign partitions

The Marketing Platform provides support for partitions in the Campaign family of products. Partitions provide a way to secure the data associated with different groups of users. When you configure Campaign or a related IBM Unica Marketing application to operate with multiple partitions, each partition appears to

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application users as a separate instance of the application, with no indication that other partitions exist on the same system.

About groups

A subgroup inherits the user members and the roles assigned to its parents. The IBM Unica Marketing administrator can define an unlimited number of groups, and any user can be a member of multiple groups. This makes it easy to create different combinations of roles. For example, a user could be an eMessage administrator and a Campaign user with no administration privileges.

A group can belong to only one partition.

Data source credential management

Both users and administrators can set up the user's data source credentials in advance, so the user is not prompted to provide data source credentials when working with an IBM Unica application that requires access to a data source.

Integration with external user and group management systems

IBM Unica Marketing can be configured to integrate with external systems that are used to manage users and resources centrally. These include Windows Active Directory Server, other supported LDAP directory servers, and web access control platforms such as Netegrity SiteMinder and IBM Tivoli Access Manager. This reduces errors, support costs, and the time needed to deploy an application in production.

Data filters

The Marketing Platform supports configurable data filters that allow you to specify data access restrictions in IBM Unica Marketing products. Data filters make it possible to restrict the customer data that an IBM user can view and work with in IBM Unica applications.

About configuration management

The Configuration page provides access to the central configuration properties for IBM Unica Marketing applications. Users with Admin privileges in the Marketing Platform can use the Configuration page to do the following.

- Browse configuration properties, which are organized by product into a hierarchy of categories and sub-categories.
- Edit the values of configuration properties.
- Delete some categories (categories that you can delete display a **Delete Category** link on the Settings page).

You can make additional changes on the Configuration page using a utility provided with the Marketing Platform. See "The configTool utility" on page 187 for details.

Localization in IBM Unica Marketing

The Marketing Platform supports localization through its character set encoding and by enabling an administrator to set locale preferences for individual users or all users. Users can also set their own local preferences.

For both internal and external users, you can set locale preferences on a per-user basis or across the IBM Unica applications that support this feature. This preference setting affects the display of language, time, numbers, and dates in IBM Unica applications.

The Marketing Platform supports UTF-8 as the default character set encoding, which allows users to enter data in any language (for example Chinese or Japanese). However, note that full support for any character set in The Marketing Platform also depends on the configuration of the following:

- · The Marketing Platform system table database
- The client machines and browsers used to access IBM Unica Marketing.

The common user interface

The Marketing Platform provides a common access point and user interface for IBM Unica Marketing applications. The common interface provides the following features.

- When multiple IBM Unica Marketing products are installed, you can navigate between products without launching new windows.
- You can view a listing of the pages that you have recently visited, and navigate back to any of those pages using the **Recent** menu.
- You can set an IBM Unica Marketing page as a home page (the first page you see when you log in) and you can return to that page at any time by clicking the Home icon.
- You can access the search function for each installed product using the Search field. The context of this search function is the page you are viewing. For example, if you are viewing a list of campaigns within Campaign, a search would take place across campaigns. If you wanted to search for a Marketing Operations project, you would perform the search while viewing a list of Marketing Operations projects.

To log in to IBM Unica Marketing

You need the following.

- An intranet (network) connection to access your IBM Unica Marketing server.
- · A supported browser installed on your computer.
- User name and password to sign in to IBM Unica Marketing.
- The URL to access IBM Unica Marketing on your network.

The URL is:

http://host.domain.com:port/unica

where

host is the machine where the Marketing Platform is installed.

domain.com is the domain in which the host machine resides

port is the port number on which the Marketing Platform application server is listening.

Note: The following procedure assumes you are logging in with an account that has Admin access to the Marketing Platform.

Access the IBM Unica Marketing URL using your browser.

- If IBM Unica Marketing is configured to integrate with Windows Active Directory or with a web access control platform, and you are logged in to that system, you see the default dashboard page. Your login is complete.
- If you see the login screen, log in using the default administrator credentials. In a single-partition environment, use asm_admin with password as the password. In a multi-partition environment, use platform_admin with password as the password.
 - A prompt asks you to change the password. You can enter the existing password, but for good security you should choose a new one.
- If IBM Unica Marketing is configured to use SSL, you may be prompted to accept a digital security certificate the first time you sign in. Click **Yes** to accept the certificate.

If your login is successful, IBM Unica Marketing displays the default dashboard page. A "page not found" message may be displayed on the dashboard page until it has been configured.

With the default permissions assigned to the Marketing Platform administrator accounts, you can administer user accounts and security using the options listed under the **Settings** menu. To administer IBM Unica Marketing dashboards, you must log in as **platform_admin**.

Chapter 2. Managing Internal User Accounts

This section describes how to manage the attributes of user accounts created using the IBM Unica Marketing Platform user interface, which we refer to as internal accounts. This is in contrast to external user accounts, which are imported from an external system such as an LDAP server or web access control system. You can manage internal accounts using the Marketing Platform user interface. External accounts are managed in the external system.

Types of user accounts: internal and external

When IBM Unica Marketing is integrated with an external server (such as a supported LDAP server or a web access control system), it supports two types of user accounts.

- Internal User accounts that are created within IBM Unica Marketing using the security user interface. These users are authenticated through IBM Unica Marketing.
- External User accounts that are imported into IBM Unica Marketing through synchronization with an external server. This synchronization occurs only if IBM Unica Marketing has been configured to integrate with the external server. These users are authenticated through the external server. Examples of external servers are LDAP and web access control servers.

Depending on your configuration, you might have only internal users, only external users, or a combination of both. If you integrate IBM Unica Marketing with Windows Active Directory and enable Windows integrated login, you can have only external users.

For more information about integrating IBM Unica Marketing with an LDAP or Windows Active Directory server, see the relevant sections in this guide.

Management of external users

Usually, the attributes of external user accounts are managed through the external system. Within IBM Unica Marketing, you can control only two aspects of an external user account: membership in internal groups (but not external groups), and a setting that affects the locale for IBM Unica Marketing applications.

Identifying internal and external users in the IBM Unica Marketing interface

In the Users section of IBM Unica Marketing, internal and internal users have different icons, as follows.

• Internal -



• External -

About properties of internal user accounts

This section provides details on the properties of internal user accounts.

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When a user forgets a password

Marketing Platform stores internal user passwords in hashed form, and these stored passwords cannot be restored to clear text. You must assign a new password for users with an internal account who forget their password.

Resetting a password

Users with internal accounts can change their own passwords by providing the original password and entering and confirming the new password. The IBM Unica Marketing administrator can also reset any user password as needed.

Password expiration dates

You can set password expiration intervals for all internal users on the Configuration page. You can also set expiration dates on a per-user basis for internal users (when the system-wide expiration date is not set to never expire).

System status of internal accounts

The system status of an internal system status is either active or disabled. A user with a disabled account cannot log in to any IBM Unica Marketing application. If a disabled user account was formerly active, with membership in one or more groups, you can make the account active again. When you make a disabled user account active the group memberships are retained.

Alternate login for internal accounts

You can specify an alternate login for any internal user account. An alternate login is typically required when the Campaign listener runs as root on a UNIX-type system.

Data sources for internal accounts

A user needs appropriate credentials to access the data sources used by some IBM Unica Marketing applications. You can enter these credentials in the internal user account properties.

When a user is working in an IBM Unica Marketing application such as Campaign and is prompted for data source information, the IBM Unica Marketing application stores this information in the Marketing Platform data store. These data sources appear in the data source list for the user in the Marketing Platform even though they were not created using the IBM Unica Marketing interface.

To add a new user account

1. Click **Settings** > **Users**.

The **Username** list is displayed in the left pane.

- 2. Click the **New User** button above the **Username** list in the left pane.
 - The **New User** page appears in the right pane.
- 3. Complete the form and click Save Changes.
 - A window displays the message, Save Successful.
- 4. Click OK.

The new user name appears in the list in the left pane.

To delete a user account

Important: If Campaign permissions are set up in a way that restricts ownership or access to a Campaign object to a single user, deleting the account of that user makes the object inaccessible. Instead, you should disable rather than delete such accounts.

1. Click **Settings** > **Users**.

The **Username** list is displayed in the left pane.

2. Click the user name of the account you want to delete.

The user account details appear in the right pane.

3. Click the **Delete User** button above the account details in the right pane.

A window displays the message, Are you sure you want to delete this user?

4. Click OK.

The user account is deleted, and the user name is removed from the **Username** list.

To change an internal user password expiration date

If the system-wide password expiration property is set to never expire, you cannot change the password expiration date of an individual user.

1. Click **Settings** > **Users**.

The **Username** list is displayed in the left pane.

2. Click the user name.

The user account details appear in the right pane.

3. Click the **Edit Properties** link at the bottom of the page.

The user details are displayed in editable fields.

4. Change the date in the **PW expiration** field.

A window displays the message, Save Successful.

5. Click OK.

The user account details appear in the right pane, including the new password expiration date.

To reset an internal user password

1. Click **Settings** > **Users**.

The **Username** list is displayed in the left pane.

2. Click the user name you want to change.

The user account details appear in the right pane.

3. Click the **Reset Password** link at the bottom of the page.

The Reset Password page for the user appears in the right pane.

4. Enter the new password in the **Password** field.

When you enter a password, asterisks are displayed, rather than the actual password text.

- 5. Enter the same password in the **Confirm** field.
- 6. Click **Save Changes** to save your changes.

A window displays the message, Password Reset Successful.

7. Click OK.

The user account details appear in the right pane.

Note: When user passwords are reset, users are prompted to change their password the next time they log in to an IBM Unica Marketing application.

To change internal user account properties

1. Click **Settings** > **Users**.

The **Username** list is displayed in the left pane.

2. Click the name of the account you want to change.

The user account details appear in the right pane.

3. Click the **Edit Properties** link at the bottom of the page.

The Edit Properties page appears in the right pane, with the user details displayed in editable fields.

4. Edit the fields as needed.

To reset the user password, see "To reset an internal user password" on page 7.

5. Click **Save Changes** to save your changes.

A window displays the message, Save Successful.

6. Click OK.

The new user account details appear in the right pane.

To change internal user system status

1. Click **Settings** > **Users**.

The Username list is displayed in the left pane.

2. Click the name of the account you want to change.

The user account details appear in the right pane.

3. Click the **Edit Properties** link at the bottom of the page.

The Edit Properties page appears in the right pane, with the user details displayed in editable fields.

4. Select the status in the **Status** drop-down list. The options are **ACTIVE** and **DISABLED**.

Note: If you select **DISABLED**, the user will no longer be able to log in to any IBM Unica Marketing applications. Users with Admin access to Marketing Platform cannot disable themselves.

5. Click **Save Changes** to save your changes.

A window displays the message, Save Successful.

6. Click OK.

The new user account details appear in the right pane.

To add an internal user data source

1. Click **Settings** > **Users**.

The **Username** list is displayed in the left pane.

2. Click the name of the account you want to change.

The user account details appear in the right pane.

3. Click the **Edit Data Sources** link at the bottom of the page.

The user's Data Sources List page appears in the right pane.

4. Click Add New.

The New Data Sources page appears in the right pane.

5. Complete the form and click **Save Changes** to save your changes.

A window displays the message, Save Successful.

Click OK.

The user's Data Sources List page appears in the right pane, with the new Data Source Name and Data Source Login listed.

To change an internal user data source password or login name

1. Click **Settings** > **Users**.

The **Username** list is displayed in the left pane.

2. Click the name of the account you want to change.

The user account details appear in the right pane.

3. Click the Edit Data Sources link at the bottom of the page.

The user's Data Sources List page appears in the right pane.

4. Click the Data Source Name you want to change.

The Edit Data Source Properties page appears in the right pane, with data in all editable fields.

5. Edit the fields. See "To change internal user account properties" on page 8 for details.

If you do not set a new password, the old one is retained.

6. Complete the form and click Save Changes to save your changes.

A window displays the message, Save Successful.

7. Click OK.

The user's Data Source List page appears in the right pane, with the new login name listed, if you changed it.

To delete an internal user data source

1. Click **Settings** > **Users**.

The **Users** list is displayed in the left pane.

2. Click the name of the account you want to change.

The user account details appear in the right pane.

3. Click the **Edit Data Sources** link at the bottom of the page.

The user's data sources are listed.

4. Click the name of the data source you want to delete.

The data source details are listed.

5. Click Delete.

A window displays the message, Are you sure you want to delete this data source?

6. Click OK.

The user's data sources are listed, and the data source you deleted is removed.

Users window reference

New User

Field	Description
First Name	The user's first name.
Last Name	The user's last name.
Login	The user's login name. This is the only required field.
Password	A password for the user.
	Follow these rules when creating a password.
	• Passwords are case-sensitive. For example, password is not the same as Password.
	You may use any character when you create or reset a password in IBM Unica Marketing.
	Additional password requirements are set on the Configuration page. To see what they are for your installation of IBM Unica Marketing, click the Password Rules link next to the Password field.
Confirm Password	The same password you entered in the Password field.
Title	The user's title.
Department	The user's department.
Company	The user's company.
Country	The user's country.
Address	The user's address.
Work Phone	The user's work phone number.
Mobile Phone	The user's mobile phone number.
Home Phone	The user's home phone number.
Email Address	The user's email address.
	This field must conform to email addresses as defined in RFC 821. See RFC 821 for details.
Alternate Login	The user's UNIX login name, if one exists.
	An alternate login is typically required when the Campaign listener runs as root on a UNIX-type system.

Field	Description
Status	Select ACTIVE or DISABLED from the drop-down list.
	ACTIVE is selected by default.
	Disabled users are prevented from logging in to all IBM Unica Marketing applications.

Edit properties

The fields are the same as the fields on the New User window, except for the ones shown in the following table.

Field	Description
Password	This field is not available on the Edit properties window.
	• •
Login	This field is not available on the Edit properties window.
PW Expiration	The date in the format appropriate for your locale (for example, for en_US, the format is MM, dd, yyyy).
	You cannot change a user's expiration date when the system-wide expiration date is set to never expire.

Reset password

Field	Description
Password	The new password.
Confirm	The same password you entered in Password field.

New Data Source / Edit Data Source Properties

Field	Description
Data Source	The name of a data source you want the user to be able to access from an IBM Unica Marketing application. IBM Unica Marketing names preserve case for display purposes, but use case-insensitive rules for comparison and creation (for example, you cannot create both customer and Customer data source names). Required.
Data Source Login	The login name for this data source. Required.
Data Source Password	The password for this data source. You can leave this field empty, if the data source account does not have a password.
Confirm Password	The password again (leave empty if you left the Data Source Password field empty).

Setting the per-user locale preference

For both internal and external users, you can set the locale preference on a per-user basis. This preference setting affects the display of language, time, numbers, and dates in IBM Unica Marketing applications.

A default setting also exists that applies throughout the IBM Unica Marketing for all users. See "About the default user locale preference" on page 49 for details.

When you set this property for an individual user, the setting you apply for that user overrides the default setting.

Note: Availability of locales may vary depending on the IBM Unica Marketing application, and not all IBM Unica Marketing applications support this locale setting. See specific product documentation to determine availability and support for the locale setting in IBM Unica Marketing.

To set the user locale preference

- 1. Click **Settings** > **Users**.
 - The Username list displays.
- **2.** Click the user name you for which you want to set locale preferences. The user account details display.
- 3. Click the **Edit Configuration Preferences** link at the bottom of the page. The user's **Preference Settings** page displays.
- 4. Click **Suite** in the left pane.
 - The **Region** setting property displays in a new window.
- 5. Select the option from the drop-down list.
- 6. Click Save and Finish.

The preference is saved and the Preference Settings page closes, returning you to the Users page.

Forcing synchronization of external users

When IBM Unica Marketing is configured to integrate with a Windows Active Directory or LDAP server, users, and groups are synchronized automatically at pre-defined intervals. During these automatic synchronizations, only those users and groups that were created or changed since the last synchronization are brought into IBM Unica Marketing. You can force a synchronization of all users and groups by using the Synchronize function in the Users area of IBM Unica Marketing.

Use the procedure in this section to force synchronization of external users.

To force synchronization of external users

- 1. Log in to IBM Unica Marketing and click **Settings > Users**.
- 2. Click Synchronize.

Users and groups are synchronized.

Chapter 3. Managing Security in IBM Unica Marketing

The IBM Unica Marketing Platform supports roles and permissions to control user access to objects and features in IBM Unica Marketing applications.

In the 8.0.0 version of IBM Unica Marketing products, only the Marketing Platform itself and Campaign use the Marketing Platform's security functions to manage users' application access in detail. The other IBM Unica Marketing products use some basic application access roles set through the Marketing Platform, and either do not have detailed security settings or the settings are not in the Marketing Platform area of the user interface. IBM Unica Marketing products manage permissions as follows.

- In the Marketing Platform, roles and permissions control users' access to the Marketing Platform administration pages and their ability to modify user accounts other than their own account. You manage these roles on the User Roles & Permissions page.
 - Although the reporting function is a component of the Marketing Platform, it has its own entry on the User Roles & Permissions page, and it has default roles with only broad, basic permissions.
- In Interaction History and Attribution Modeler, roles and permissions control users' access to their administration pages and their ability to view reports. You manage these roles on the User Roles & Permissions page.
- In Campaign, permissions control users' access to objects and their ability to perform various actions with objects. In Campaign only, permissions can apply to all objects within a folder, and multiple roles can be grouped into a policy, which can then be assigned to a user or group of users. You manage Campaign roles on the User Roles & Permissions page.
- For Marketing Operations, setting up the basic roles on the User Roles & Permissions page is only the starting point for developing a customized security scheme. Marketing Operations has a detailed security scheme you can manage through a user interface in the Marketing Operations area.
- Distributed Marketing, eMessage, Interact, Lead Referrals, and PredictiveInsight
 have default roles with broad, basic permissions for application access. They do
 not have permissions that allow you to define in detail a user's access to these
 applications.
- Optimize, CustomerInsight, and NetInsight do not have any roles or permissions in the Marketing Platform.

Where to find information on security administration in IBM Unica Marketing

You can find information on security administration for IBM Unica Marketing as follows.

- All products that have roles and permissions in the Marketing Platform This
 guide provides information on assigning roles to users, either on a per-user basis
 or through group membership.
- Marketing Platform, Interaction History, and Attribution Modeler This
 chapter provides the information you need to manage permissions for the
 Marketing Platform, Interaction History, and Attribution Modeler.

For the reporting function, the basic permissions are described in this chapter, but details about how security works in reporting are described in "About reporting and security" on page 52.

- Campaign See Chapter 4, "Managing Security in IBM Unica Campaign," on page 29 in this guide.
- Interact, eMessage, PredictiveInsight, Distributed Marketing See "Reference: Permissions for products that use only basic roles" on page 25 for a description of the basic roles.
- Marketing Operations See "Reference: Permissions for products that use only basic roles" on page 25 for a description of the basic roles. See the Marketing Operations product documentation for detailed information on setting up a security scheme.

About security administration in the Marketing Platform

Only users with either the AdminRole or PlatformAdminRole role in the Marketing Platform have access to security administration features for user accounts other than their own. In a multi-partition environment, only a user with the PlatformAdminRole role can administer users across partitions. Users with the AdminRole role can administer users in their own partition only.

The Marketing Platform administrator uses the User Groups and User Roles & Permissions pages to perform the following tasks.

- Create internal groups and manage their memberships and partition assignments.
- Create roles for the Marketing Platform and Campaign, if necessary, and assign permissions to these roles.
- Manage user access to IBM Unica Marketing applications by assigning roles to individual users and/or to internal and external groups.

Read this overview to gain an understanding of the following.

- The difference between internal and external groups
- The process of creating internal groups and assigning roles and permissions
- The properties of internal groups
- The pre-configured user accounts, groups, and roles in the Marketing Platform

About roles and permissions in Marketing Platform and Campaign

Roles in Marketing Platform and Campaign are a configurable collection of permissions. For each role in Marketing Platform and Campaign, you can specify permissions that control access to the application. You can use the default roles or create new roles. The set of available permissions is defined by the system; you cannot create a new permission.

About role assignment

Generally, you should give users roles with permissions that reflect the functions that users perform in your organization when they use IBM Unica Marketing. You can assign roles to a group or to an individual user. The advantage of assigning roles by group is that you can assign a combination of roles to the group, and if you later want to change that combination, you can do it in one place rather than having to do it multiple times for multiple users. When you assign roles by group, you add and remove users from your groups to control user access.

How the system evaluates roles

If a user has multiple roles, the system evaluates permissions from all those roles together. The ability to perform a function on a particular object is then granted or denied based on the aggregated permissions from all roles, and in the case of Campaign, the security policy of the object.

The security management process in the Marketing Platform

Using the Marketing Platform's security administration features to manage user application access is a multi-step process. The following procedure provides an overview of the basic process, which is described in detail in the remainder of this guide.

To manage user application access

- 1. Plan the roles you want to use to control user access to the Marketing Platform, Interaction History, Attribution Modeler, and Campaign. Configure these roles and their permissions as needed.
- 2. Plan what groups you need to fulfill your security requirements. You may have only internal groups, only external groups, or a combination of both, depending on how your system is configured.
- 3. Create any necessary internal and external groups.
- 4. Assign your groups to roles.
- 5. If you have only internal user accounts, create any internal user accounts as needed.
- 6. Assign users to groups, or assign roles to individual users, based on the application access you want the users to have.

Types of groups: internal and external

When IBM Unica Marketing is integrated with an external server (such as a supported LDAP server or a web access control system), it supports two types of groups.

•

Internal – Groups that are created within IBM Unica Marketing using the security user interface. These users are authenticated through IBM Unica Marketing.

.

External – IBM Unica Marketing groups that are mapped to groups in the external system. This synchronization occurs only if IBM Unica Marketing has been configured to integrate with the external server. Examples of eternal servers are LDAP and web access control servers. Note that a group referred to as an external group in this guide is one that is actually created in IBM Unica Marketing but is mapped to an external system.

Depending on your configuration, you may have only internal groups, only external groups, or a combination of both.

For more information about integrating IBM Unica Marketing with an LDAP or Windows Active Directory server, see the relevant sections of this guide.

Management of external groups

The membership of external groups is managed in the external system.

You can assign roles to mapped external groups just as you do to internal groups.

Management of internal groups and subgroups

You can define an unlimited number of internal groups, and any internal or external user can be a member of multiple internal groups and subgroups.

A subgroup inherits the user members and the roles assigned to its parents. A group and its subgroups always belong to one partition.

Only internal groups may be assigned to a partition, and only the platform_admin user, or another account with the PlatformAdminRole role, can create groups in all partitions in a multi-partition environment.

About partitions and security management

Partitions in Campaign and related products provide a way to secure the data associated with different groups of users. With partitioning, a user's partition appears as if it were a separate running instance of Campaign, with no indication that other partitions are running on the same system. This section describes special security management considerations in a multi-partition environment

User membership in a partition

You assign users to a partition based on their group membership. You assign a group to a partition and then assign users to a group to give them access to a partition.

A group or subgroup may be assigned to just one partition, and parent groups do not acquire the partition assignments of their subgroups. Only the platform_admin user, or another account with the PlatformAdminRole role, can assign a group to a partition.

You should make a user a member of only one partition.

About roles and partitions

A role always exists in the context of a partition. In a single-partition environment, all roles are automatically created within the default partition, partition1. In a multi-partition environment, a role is created in the partition of the user who created it. The exception is the platform_admin user and any other accounts with the PlatformAdminRole role; these accounts can create roles in any partition.

More information about partitions

This section provides instructions on assigning a group to a partition, and assigning users to groups. For complete details on configuring partitions, see the Campaign installation documentation.

Pre-configured users and roles

When IBM Unica Marketing is first installed, three users are pre-configured and are assigned system-defined roles in the Marketing Platform and Campaign, as described in this section.

These internal user accounts all have "password" as the default password.

The platform_admin user account

The platform_admin user account is designed to allow an IBM Unica Marketing administrator to manage product configuration, users, and groups across all partitions in a multi-partition environment, and to use all the Marketing Platform features (except reporting, which has its own roles) without any filtering by partition. By default, this account has the following roles in the Marketing Platform.

- In the Marketing Platform, in the default partition, partition1
 - AdminRole
 - UserRole
 - PlatformAdminRole

These roles allow the platform_admin user to perform all administrative tasks within the Marketing Platform, except for the reporting functions. When additional partitions are created, the platform_admin user can access and administer users, groups, roles, and configuration within the additional partitions.

The PlatformAdminRole role is unique in that no user can modify permissions for this role, and only a user with this role can assign the PlatformAdminRole role to another user.

- In Campaign, in the default partition, partition1
 - The Global policy Admin role

This role allows the platform_admin user to perform all tasks within Campaign.

By default, this user does not have access to any IBM Unica Marketing products beyond the Marketing Platform and Campaign.

The asm admin user account

The asm_admin user account is designed to allow an IBM Unica Marketing administrator to manage users and groups in a single-partition environment, and to use all the Marketing Platform features (except reporting, which has its own roles). This account has the following roles.

- In the Marketing Platform, in the default partition, partition1
 - AdminRole
 - UserRole

With the exceptions noted below, these roles allow the asm_admin user to perform all administrative tasks within the Marketing Platform within the partition to which asm_admin belongs, which is partition1 by default.

These roles allow this user to administer the Configuration page, which does not filter by partition for any user. For this reason, you should remove the Administer Configuration page permission from the AdminRole role in the Marketing Platform, and reserve configuration tasks for the platform_admin user.

The exceptions are as follows.

- To access reporting functions, you must grant the Reports System role.
- This user cannot assign the PlatformAdminRole role to any user or group.

The demo account

The demo account has the following roles.

- In the Marketing Platform, in the default partition, partition1
 - UserRole

This role allows the demo user to view and modify his or her own account attributes on the Users page, but not to change roles or partitions for his or her own account or access any of the other features contained within the Marketing Platform. By default, this user does not have access to any of the IBM Unica Marketing products.

- In Campaign, in the default partition, partition1
 - The Global policy Review role

This role allows the demo user to create bookmarks and to view campaigns, sessions, offers, segments, and reporting in Campaign.

Retaining the platform_admin account

In a multi-partition environment, at least one user account with the PlatformAdminRole role in the Marketing Platform is required, to enable you to administer security for IBM Unica Marketing users across all partitions.

The platform_admin account is pre-configured with the PlatformAdminRole role. The platform_admin account is a superuser that cannot be deleted or disabled through the Users functions in IBM Unica Marketing. However, this account is subject to the password constraints of any other user. For example, if someone attempting to log in as platform_admin enters an incorrect password N times in a row (depending on the password rules in effect), the platform_admin account is disabled in the system. To restore this account you must take one of the following actions.

- If you have another user with the PlatformAdminRole role in the Marketing Platform, log in as that user and reset the platform_admin user's password or create another account with the PlatformAdminRole role in the Marketing Platform.
- If you have only one user with the PlatformAdminRole role in the Marketing Platform (for example, platform_admin), and this user is disabled, you can create a new platform_admin account as described in "The restoreAccess utility" on page 196.

To avoid a situation where you must restore PlatformAdminRole access using the restoreAccess utility, it is a good practice to create more than one account with PlatformAdminRole privileges.

Managing internal groups

This section describes how to manage internal groups.

To add a new internal group

- 1. Click Settings > User Groups.
 - The **Group Hierarchy** list is displayed in the left pane.
- 2. Click the **New Group** button above the **Group Hierarchy** list in the left pane. The **New Group** page displays.
- 3. Complete the **Group Name** and **Description** fields.
- 4. Click Save Changes.

The new group's name appears in the **Group Hierarchy** list.

To add a new subgroup

- 1. Click Settings > User Groups.
 - The Group Hierarchy list displays.
- 2. Click the name of the group to which you want to add a subgroup.
 - The group detail page displays.
- 3. Click the New Subgroup button at the top of the right pane..
 - The **New Subgroup** page displays.
- 4. Complete the **Group Name** and **Description** fields.
- 5. Click Save Changes.

The new subgroup is added under the appropriate group in the Group **Hierarchy** list.

Note: If the parent group's folder icon is closed, click the plus sign (+) to expand the list.

To delete a group or subgroup

Remember, when you delete a group or subgroup, members of the group lose the roles assigned to that group, and any parents of that group also lose those role assignments, unless the roles are also explicitly assigned to the parents.

- 1. Click Settings > User Groups.
 - The **Group Hierarchy** list is displayed in the left pane.
- 2. Click the name of the group or subgroup that you want to delete.
 - The group detail page displays.

Note: To select a subgroup when the parent group's folder icon is closed, click the plus sign (+) to expand the list.

- 3. Click the **Delete Group** button at the top of the right pane.
 - A window displays the message, Are you sure you want to delete this group and all of its subgroups.
- 4. Click OK.

The group is deleted and the group name is removed from the group hierarchy list, along with its subgroups, if any.

To change a group or subgroup description

- 1. Click Settings > User Groups.
 - The **Group Hierarchy** list is displayed in the left pane.
- 2. Click the name of the group or subgroup whose description you want to change.

The group detail page displays.

Note: To select a subgroup when the parent group's folder icon is closed, click the plus sign (+) to expand the list.

3. Click Edit Properties.

The Edit Properties page displays.

- 4. Edit the description as desired.
- 5. Click **Save Changes** to save your changes.

A window displays the message, Save Successful.

6. Click OK.

To assign a group to a partition

This procedure is necessary only if multiple partitions are configured for Campaign. Only the PlatformAdmin user can perform this task.

- 1. Determine which groups you want to assign to each partition. Create the groups, if necessary.
- 2. Click Settings > User Groups.

The **Group Hierarchy** list displays.

- 3. Click the name of the group or subgroup that you want to assign to a partition. The group detail page displays.
- 4. Click Edit Properties.

The Edit Properties page displays.

- Select the desired partition from the Partition ID drop-down list.This field is available only when multiple partitions are configured.
- 6. Click **Save Changes** to save your changes.

A window displays the message, Save Successful.

7. Click OK.

To add a user to a group or subgroup

1. Click **Settings** > **Users**.

The **Username** list is displayed in the left pane.

Note: You can perform the same task on the **User Groups** page by clicking the group name and then clicking **Edit Users**.

2. Click the user name you want to change.

The user account details display.

3. Click the **Edit Groups** link at the bottom of the page.

The user's **Edit Groups** page displays.

4. Click a group name in the **Available Groups** box to select it.

The selected group name is highlighted.

5. Click the Add button.

The group name moves to the **Groups** box.

6. Click Save Changes to save your changes.

A window displays the message, Save Successful.

7. Click OK.

The user account details display, with the group or subgroup you assigned listed.

To remove a user from a group or subgroup

Important: Removing a user from a group or subgroup remove the roles assigned to that group or subgroup from the user.

1. Click **Settings** > **Users**.

The Username list is displayed in the left pane.

2. Click the user name you want to change.

The user account details display.

3. Click the **Edit Groups** link at the bottom of the page.

The user's Edit Groups page displays.

4. Click a group name in the **Groups** box to select it.

The selected group name is highlighted.

5. Click the Remove button.

The group name moves to the **Available Groups** box.

6. Click **Save Changes** to save your changes.

A window displays the message, Save Successful.

7. Click OK.

The user account details display, with the group or subgroup removed.

8. Click the **Edit Properties** link at the bottom of the page.

The Edit Properties page displays.

- 9. Change the name or description as desired.
- 10. Click **Save Changes** to save your changes.

A window displays the message, Save Successful.

11. Click OK.

The group details display, with your changes.

User Groups window reference New Group, New Subgroup, Edit Properties

Field	Description
Group Name	The group name. The limit is 64 characters.
	You may use the following characters when you create a group name.
	• Upper and lower case alphabetic characters (A–Z)
	• Numbers (0–9)
	Single quote (')
	Hyphen (-)
	• The 'at' sign (0)
	Forward slash (/)
	Parenthesis
	• Colon (:)
	• Semi-colon (;)
	Space (except as the first character)
	IBM Unica Marketing names preserve case for display purposes, but use case-insensitive rules for comparison and creation (i.e., you cannot create both Admin and admin as as separate group names).
	When you create a subgroup, it is a good idea to give your subgroup a name that relates it to its parent group.
	Required.
Description	The group description. The limit is 256 characters.
	It is helpful to include the roles you plan to give the group or subgroup in the description. Then you can see at a glance on the group detail page both the roles and users.
Partition ID	Available only when multiple partitions are configured.
	If you assign a partition to a group, the members of that group are members of that partition. A user can be a member of only one partition.

Edit Users, Edit Roles

Field	Description
Available Groups or Available Roles	A list of groups and subgroups or roles to which the user is not assigned.
Groups or Roles	A list of groups and subgroups or roles to which the user is assigned

Managing user roles and permissions

This section describes how to manage user application access through roles and permissions.

To create a role

You should create new roles only for products that have detailed permissions. The reporting function and some IBM Unica Marketing products have only basic permissions available, so there is no need to create additional roles for these products.

1. Click Settings > User Roles & Permissions.

The User Roles & Permissions page displays.

2. Click the plus sign next to the product name in the list on the left, and then click the name of the partition where you want to create the role.

The existing roles within the partition display.

3. For Campaign only, if you want to create a new role under the Global Policy, click Global Policy.

The existing roles within the Global Policy display.

4. Click Add Roles and Assign Permissions.

A Properties/Roles page displays a list of existing roles.

5. Click Add a role.

A new set of role fields is added to the list.

- 6. Enter a name and description for the role.
- 7. Click Save Changes to save the role and remain on the Properties/Roles page, or Save and Edit Permissions to go to the Permissions page to add or modify permissions for any of the roles in the list.

To modify role permissions

1. Click Settings > User Roles & Permissions.

The User Roles & Permissions page displays.

2. Click the plus sign next to **Campaign** or **Platform** in the list on the left, and then click the name of the partition where you want to modify a role.

The existing roles within the partition display.

3. For Campaign only, if you want to create a new role under the Global Policy or a user-created policy, click the policy name.

The existing roles within the selected policy display.

4. Click Add Roles and Assign Permissions.

A Properties/Roles page displays a list of existing roles.

5. Click Save and Edit Permissions

A Permissions page displays, listing all groups of permissions and all existing roles.

- 6. Click the plus sign next to a role group to display all available permissions and the state of those permissions within each role.
- 7. In the role column where you want to modify permissions, click the box in the permissions rows to set the state to Grant, Deny, or Not Granted.
- 8. Click **Save Changes** save your changes and return to the Properties/Roles page.

You can click **Revert to Saved** to undo changes since your last save and remain on the Permissions page, or **Cancel** to discard your changes since your last save and go to the partition or policy page.

To remove a role

Important: If you remove a role, it is removed from all users and groups to which it was assigned.

1. Click Settings > User Roles & Permissions.

The User Roles & Permissions page displays.

2. Click the plus sign next to **Campaign** or **Platform** in the list on the left, and then click the name of the partition where you want to create the role.

The existing roles within the partition display.

3. For Campaign only, if you want to create a new role under the Global Policy, click Global Policy.

The existing roles within the Global Policy display.

4. Click Add Roles and Assign Permissions.

A Properties/Roles page displays a list of existing roles.

- 5. Click the **Remove** link for the role you want to delete.
- 6. Click Save Changes.

To assign a role to or remove a role from a group

If you add a role to a group or remove a role from a group, members of that group acquire or lose that role.

1. Click Settings > User Groups.

The User Groups page displays.

2. Click the name of the group that you want to work with.

The group detail page displays a list of the group's users and roles.

3. Click Assign Roles.

The Edit Roles page displays. Roles that are not assigned to the group are shown in the **Available Roles** box on the left. Roles that are currently assigned to the group are shon in the **Roles** box on the right.

4. Click a role name in the Available Roles box to select it.

The selected role name is highlighted.

- 5. Click Add or Remove to move the role name from one box to the other..
- 6. Click **Save Changes** to save your changes.

A window displays the message, Save Successful.

7. Click OK.

The group details display in the right pane, with your changes shown in the **Roles** list.

To assign a role to or remove a role from a user

1. Click **Settings** > **Users**.

The Users page displays.

2. Click the name of the user account that you want to work with.

The user detail page displays a list of the user's attributes, roles, groups, and data sources.

3. Click Edit Roles.

The Edit Roles page displays. Roles that are not assigned to the user are shown in the **Available Roles** box on the left. Roles that are currently assigned to the user are shown in the **Roles** box on the right.

- 4. Click a role name in the Available Roles box to select it. The selected role name is highlighted.
- 5. Click Add or Remove to move the role name from one box to the other..
- Click Save Changes to save your changes.A window displays the message, Save Successful.
- 7. Click OK.

The user details display in the right pane, with your changes shown in the **Roles** list.

Reference: Definition of permission states

For each role, you can specify which of the pre-defined permissions are granted, not granted, or denied. These states have the following meanings.

- **Granted** indicated with a green checkmark . Explicitly grants permission to perform this particular function as long as none of the user's other roles explicitly denies permission.
- **Denied** indicated with a red "X" . Explicitly denies permission to perform this particular function, regardless of any other of the user's roles which might grant permission.
- **Not Granted** indicated with a shaded gray "X" . Does not explicitly grant nor deny permission to perform a particular function. If this permission is not explicitly granted by any of a user's roles, the user is not allowed to perform this function.

Reference: Permissions for products that use only basic roles

The following table describes the functional definitions of the roles available for the IBM products that use only the basic roles. See the product documentation for additional information.

IBM Unica	
Application	Roles
Leads	Leads roles are reserved for future use.
Reports	• ReportsSystem – grants the report_system permission, which gives you access to the Report SQL Generator and Sync Report Folder Permissions options in the Settings menu.
	ReportsUser – grants the report_user permission, which is used by the IBM Unica Authentication Provider installed on the IBM Cognos 8 BI system only.
	For information about authentication options for the IBM Cognos 8 BI integration and how the IBM Unica Authentication Provider uses the reporting permissions, see "About reporting and security" on page 52."
eMessage	eMessage_Admin – Has full access to all features. eMessage_User – Reserved for future use.
Interact	InteractAdminRole – Has full access to all features.

IBM Unica Application	Roles
Distributed Marketing	 collab_admin – Has full access to all features. corporate – Can use Campaign and Distributed Marketing to develop reusable Lists and On-demand Campaign templates. Can create and execute Corporate Campaigns. field – Can participate in Corporate Campaigns and can create and execute Lists and On-demand Campaigns in Distributed Marketing.
PredictiveInsight	User – Has full access to all features.
Marketing Operations	PlanUserRole – By default, users with the PlanUserRole role have very few permissions enabled in Marketing Operations. They cannot create plans, programs, or projects and have limited access to the Administrative settings.
	PlanAdminRole – By default, users with the PlanAdminRole role have most permissions enabled in Marketing Operations, including access to all administrative and configuration settings, allowing a broad range of access.
	Access is further defined through the security policies in Marketing Operations.

Reference: Permissions for the Marketing Platform

The following table describes the permissions you can assign to roles in the Marketing Platform.

Permission	Description
Administer Users page	Allows a user to perform all user administration tasks on the Users page for user accounts in his or her own partition: add and delete internal user accounts, and modify attributes, data sources and role assignments
Access Users page	Allows a user to view the User page.
Administer User Groups page	Allows a user to perform all actions on the User Groups page except assign a partition to a group, which can only be done by the platform_admin user. This permission allows a user to create, modify, and delete groups, manage group membership, and assign roles to groups.
Administer User Roles page	Allows a user to perform all actions on the User Roles & Permissions page: create, modify, and delete roles in the Marketing Platform and Campaign, and assign users to roles for all listed IBM Unica Marketing products.
Administer Configuration page	Allows a user to perform all actions on the Configuration page: modify property values, create new categories from templates, and delete categories that have the Delete Category link.
Administer Data Filters page	Allows a user to perform all actions on the Data Filters page: assign and remove data filter assignments.
Administer Scheduled Tasks page	Allows a user to perform all actions on the Scheduled Tasks page: view and modify schedule definitions and view runs.
Administer dashboards	Allows a user to perform all actions on the Dashboards pages: create, view, modify, and delete dashboards, assign dashboard administrators, and administer dashboard access.

Reference: Permissions for Interaction History

The following table describes the permissions you can assign to roles in Interaction History.

Permission	Description
Schedule ETL Jobs	Allows a user to schedule Interaction History ETL jobs and report generation on the Interaction History Settings page.
Define Mapping for Custom Columns	Allows a user to access the Campaign Audience Level Configurations window when configuring a Campaign ETL job on the Interaction History Settings page.
Define and Map Channels	Allows a user to access the Channel Mapping section on the Interaction History Settings page.
Define and Map Response Types	Allows a user to access the Response Type Mapping section on the Interaction History Settings page.
View Cross-Channel Reports	Allows a user to view reports that are part of the Interaction History reports pack.
View Admin Reports	Allows a user to view Interaction History administration reports.

Reference: Permissions for Attribution Modeler

The following table describes the permissions you can assign to roles in Attribution Modeler.

Permission	Description
Schedule Attribution Modeler Jobs	Allows a user to schedule Attribution Modeler jobs.
Monitor Attribution Modeler Jobs	Allows a user to view the Scheduled Runs and Schedule Definitions pages, with only Attribution Modeler jobs listed.
Start/Pause/ Resume/Stop Attribution Modeler Jobs	Allows a user to perform all actions on scheduled Attribution Modeler jobs.
View Reports	Reserved for future use.

Chapter 4. Managing Security in IBM Unica Campaign

Campaign uses the security functions of Marketing Platform to control user access to objects and features in Campaign. Administrators use the Marketing Platform security interface to configure the user accounts, group memberships, roles, and permissions required for users to access Campaign.

User access to the objects and features in Campaign is implemented using security policies.

About security policies

Security policies are the "rule books" that govern security in Campaign; they are consulted each time a user performs an action in the application. Security policies are created per partition (there is no sharing of security policies across partitions). A partition in Campaign can have multiple security policies.

A security policy consists of multiple roles that you define. Each role contains a set of permissions that determine the actions users can perform and the objects that they can access. You can assign users to a role directly, or assign groups to a role (users in those groups would be assigned the role).

When you create an object such as a campaign or offer in the top-level folder, you apply a security policy to the object. In addition, when you create a top-level folder, you apply a security policy to the folder, and any objects or subfolders you create within that folder inherit the security policy that you applied to the folder.

Applying security policies to objects or folders allows you to separate the objects in Campaign for use by different groups of users. For example, you could configure your security policies so that users belonging to one policy cannot access or even view objects that are associated with other policies.

You can create your own security policies or use the default global security policy included with Campaign.

The global security policy

Campaign includes a default global security policy that you can use as is or modify to suit the needs of your organization. If you choose not to create your own security policies, the global security policy is applied by default to the objects that you create in Campaign.

You can use the global policy in addition to your own policies, or use your own policies exclusively. You cannot delete the global policy, even if it is not in use.

Any security policies that you create exist under the global security policy. Under the global policy, you could create a separate security policy for employees of each division in your organization.

The global security policy contains six pre-defined roles; you can add roles to the global policy if needed. You cannot delete the pre-defined roles, but you can modify their permissions.

The pre-defined roles are:

- Folder Owner All permissions enabled
- Object Owner All permissions enabled
- Admin All permissions enabled. The default user asm_admin is assigned this
 role.
- Execute All permissions enabled
- **Design** Read and write permissions on most objects. Cannot schedule flowcharts or sessions.
- Review Read-only permissions

The global security policy applies to all users through the Owner and Folder Owner roles, including users who have not been assigned to any other specific role in the global policy. Because the global policy always applies, it can be used, for example, to globally deny permissions to a role.

How Campaign evaluates permissions

When a user performs a task or tries to access an object, Campaign performs the following steps:

- 1. Identifies all groups and roles to which this user belongs within the global security policy. A user can belong to one, many, or no roles. A user belongs to the Owner role if they own an object; they belong to the Folder Owner role if they own the folder in which an object resides. A user belongs to other roles only if they have been assigned to that role (either directly or because they belong in a group assigned to that role).
- 2. Identifies whether the object being accessed has been assigned to a custom-defined policy, if any exist. If so, the system then identifies all groups and roles to which the user belongs within this custom policy.
- 3. Aggregates the permissions for all roles to which the user belongs, based on results from steps 1 and 2. Using this composite role, the system evaluates the permissions for the action as follows:
 - a. If any roles have **Denied** permission for this action, then the user is not allowed to perform it.
 - b. If no roles have **Denied** permission for this action, then it checks to determine whether any roles have **Granted** permission for this action. If so, the user is allowed to perform the action.
 - **c**. If neither a nor b is true, the user is denied the permission.

Using the Owner and Folder Owner roles

By default, each security policy contains an Owner and a Folder Owner role with all permissions granted. These roles are created by default when you create a security policy. You can remove these roles from any custom-designed security policy, modify the permissions, or use the default permissions. You can modify the permissions for these roles in the global security policy, but you cannot delete them.

The Owner and Folder Owner roles apply to all users; you do not need to assign users to them. The Owner role applies to single objects that a user created. The Folder Owner role applies to all objects in a folder that a user owns.

These roles are useful for restricting users' access to objects that they do not own. For example, you could create a Read-Only role that grants only read permissions on all objects within the security policy. Assign all users to the Read-Only role. As

long as no other role explicitly denies permissions (for example, edit or delete), each user is allowed to edit or delete their own objects (under the Owner role) and objects in their own folders (under the Folder Owner role), but only view objects and folders owned by others (under the Read-Only role).

Guidelines for designing security policies

Follow these guidelines when designing security policies:

- Keep the design simple. Campaign allows you to create multiple security
 policies and roles, but you should keep the security design as simple as possible,
 and use as few policies and roles as possible to achieve your security needs. At
 the most minimal level, for example, you can use the default global security
 policy as is, without creating new roles or policies.
- Avoid potential conflicts among security policies. If your organization implements more than one security policy, keep in mind potential conflicts when designing the policies. For example, users with Move and Copy permissions in more than one security policy are able to move or copy objects and folders to locations across the policies in which they have these permissions. In doing so, because the moved objects or folders take on the security policy of their destination (if under another folder), they might cause situations where the rightful users in one division are no longer able to access the moved objects because they have no roles in the destination security policy, or where users with roles in the destination security policy who were not intended to access the objects, find that they now can.
- Assign view permissions to allow users to modify objects. To modify many of the objects in Campaign, users must be granted both view and modify permissions for the object. This requirement applies to the following objects:
 - campaigns
 - flowcharts
 - offers
 - offer lists
 - offer templates
 - sessions
 - strategic segments

Security scenarios

This section provides security model examples and explains how they are implemented in Campaign using security policies.

- "Scenario 1: Company with a single division"
- "Scenario 2: Company with multiple separate divisions" on page 33
- "Scenario 3: Restricted access within a division" on page 35

Scenario 1: Company with a single division

All of the employees in your company work with the same set of objects (campaigns, offers, templates, and so on). Sharing and re use of objects are encouraged; there is no need to make sure that groups of employees cannot access each other's objects. You need to create sets of permissions that will determine employees' ability to access, modify, or use these objects, based on their roles within the organization.

Solution

Only a single security policy is required, as objects do not have to be separated by group or division. In the existing global security policy, define roles corresponding to the employee jobs, and for each role, define the appropriate permissions for each object or function.

Table 1. Object permissions for this scenario

Functions/Role	Manager	Designer	Reviewer
Campaigns	\checkmark	×	×
Add Campaigns	\checkmark	\checkmark	×
Edit Campaigns	\checkmark	\checkmark	×
Delete Campaigns	\checkmark	\checkmark	×
Run Campaigns	\checkmark	×	×
View Campaign Summary	\checkmark	\checkmark	
Offers	\checkmark	\times	X
Add Offers	\checkmark	\checkmark	×
• Edit Offers	\checkmark	\checkmark	×
Delete Offers	\checkmark	×	×
Retire Offers	\checkmark	×	×
• View Offer Summary	\checkmark	\checkmark	\checkmark

For example, a Manager has full access and editing ability for campaigns and offers. A Reviewer can access campaigns and offers, but cannot add, edit, delete, or run them.

Optionally, you can also create user groups in IBM Unica Marketing that match these roles, and then assign user permissions simply by adding users to these groups.

The following table shows a sample subset of the object permissions for this scenario.

Table 2. Object permissions for this scenario

Functions/Role	Manager	Designer	Reviewer
Campaigns	\checkmark	×	\times
Add Campaigns	\checkmark	\checkmark	×

Table 2. Object permissions for this scenario (continued)

Functions/Role	Manager	Designer	Reviewer
Edit Campaigns	\checkmark	\checkmark	×
Delete Campaigns	\checkmark	\checkmark	×
Run Campaigns	\checkmark	×	×
View Campaign Summary	\checkmark	\square	\checkmark
Offers	\checkmark	\times	\times
Add Offers	\checkmark	\checkmark	×
• Edit Offers	\checkmark	\checkmark	×
• Delete Offers	\checkmark	×	×
Retire Offers	\checkmark	×	×
View Offer Summary	\checkmark		\checkmark

Scenario 2: Company with multiple separate divisions

Your company has two business divisions, Eastern and Western, that do not share data between them. Within each division, people performing different functions need to access the same objects (campaigns, offers, templates), but with differing permissions to act on these objects, depending on their role.

Solution

Define two separate security policies, each with the appropriate roles and permissions. The roles in each security policy can be the same or different, depending on the needs of each division. Except for individuals who need to work across both divisions (for example, the controller, cross-divisional managers, or the CEO), assign each user to a role within only one policy. Do not assign any role to the users in the global policy. For users that work across both divisions, assign them a role in the global policy and grant them the desired permissions.

Create top-level folders that belong to each policy, to hold campaigns, offers, and so on. These folders are specific to each division. Users with roles in one policy cannot see the objects belonging to the other policy.

The following tables show only a sample subset of the possible object permissions in Campaign.

Table 3. Eastern Division Security Policy

Functions/ Role	Folder Owner	Object Owner	Manager	Designer	Reviewer
Campaigns	\checkmark	\checkmark	\checkmark	\times	\times
• Add Campaigns	\checkmark	\checkmark	\checkmark	\checkmark	×
• Edit Campaigns	\checkmark	\checkmark	\checkmark	\checkmark	×
• Delete Campaigns	\checkmark	\checkmark	\checkmark	\checkmark	×
• View Campaign Summary	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Offers	\checkmark	\checkmark	\checkmark	×	×
Add Offers	\checkmark	\checkmark	\checkmark	\checkmark	X
• Edit Offers	\checkmark	\checkmark	\checkmark	\checkmark	×
• Delete Offers	\checkmark	\checkmark	\checkmark	×	×
View Offer Summary	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark

Table 4. Western Division Security Policy

Functions/ Role	Folder Owner	Object Owner	Manager	Designer	Reviewer
Campaigns	\checkmark	\checkmark	\checkmark	×	\times
• Add Campaigns	\checkmark	\checkmark	\checkmark	\checkmark	×
• Edit Campaigns	\checkmark	\checkmark	\checkmark	\checkmark	×
• Delete Campaigns	\checkmark	\checkmark	\checkmark	\checkmark	×
• View Campaign Summary	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Offers	\checkmark	\checkmark	\checkmark	×	\times
Add Offers	\checkmark	\checkmark	\checkmark	\checkmark	×
• Edit Offers			\checkmark	\checkmark	×

Table 4. Western Division Security Policy (continued)

Functions/ Role	Folder Owner	Object Owner	Manager	Designer	Reviewer
• Delete Offers	\checkmark	\checkmark	\checkmark	X	X
• Add Campaigns	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark

Scenario 3: Restricted access within a division

Employees within a division of your company require read access to the same set of objects (campaigns, offers, templates, and so on), but they are allowed to edit and delete only their own objects and objects in folders that they own.

Solution

Define a Read-Only role that grants only read permissions on objects. Assign all users within the division to this role. Keep the default permissions as defined for the Owner and Folder Owner roles.

Note: If your company requires only a single security policy, you can use the global policy and assign all users to the Review role.

Each user is allowed to edit or delete their own objects (under the Owner role) and objects in their own folders (under the Folder Owner role), but only view objects and folders owned by others (under the Read-Only role).

The following table shows a sample subset of the object permissions for this scenario.

Table 5. Object permissions for Scenario 3

Functions/Role	Folder Owner	Object Owner	Reviewer
Campaigns	\checkmark	\checkmark	\times
Add Campaigns	\checkmark	\checkmark	×
Edit Campaigns	\checkmark	\checkmark	×
Delete Campaigns	\checkmark	\checkmark	×
View Campaign Summary	\checkmark	\square	\checkmark
Offers	\checkmark	\checkmark	\times
Add Offers	\checkmark	\checkmark	×
• Edit Offers	\checkmark	\checkmark	×

Table 5. Object permissions for Scenario 3 (continued)

Functions/Role	Folder Owner	Object Owner	Reviewer
Delete Offers	\checkmark	\checkmark	×
• View Offer Summary	\square	\square	\checkmark

Implementing security policies

This section describes how to create and delete security policies in Campaign and apply security policies to Campaign folders and objects.

Note: You must be assigned permission to administer the User Roles & Permissions page in Marketing Platform to work with Campaign security policies. In a multi-partition environment, only the platform_admin user, or another account with the PlatformAdminRole role, can work with security policies in all partitions.

To create a security policy

- 1. Click **Settings > User Roles & Permissions**. The User Roles & Permissions page displays.
- 2. Under the Campaign node, select the partition where you want to add a security policy.
- 3. Click Global Policy.
- 4. On the right of the page, click Add Policy.
- 5. Enter a policy name and description.
- 6. Click Save Changes.

The new policy is listed under the Global Policy on the User Roles & Permissions page. By default, the policy contains a Folder Owner role and an Object Owner role.

To delete a security policy

Use this procedure to delete any user-created security policies in Campaign that are not in use. You cannot delete the Global Policy.

Note: Do not delete any security policies that have been applied to objects in Campaign. If you need to delete a security policy that is in use, first set the security object of every object/folder using that security policy to a different policy (for example, the global policy). Otherwise, those objects might become inaccessible.

- Click Settings > User Roles & Permissions.
 The User Roles & Permissions page displays.
- 2. Under the Campaign node, select the partition where you want to delete a security policy.
- 3. Click the plus sign next to **Global Policy**.
- 4. Click the policy that you want to delete.
- 5. Click **Delete Policy**.

A confirmation dialog displays.

6. Click **OK** to delete the policy.

Assigning security policies to folders or objects

When you create a top-level folder or object in Campaign, you must select a security policy for it. Only policies in which you have been assigned a role are available for you to associate with top-level objects or folders.

By default, all objects in Campaign are associated with the global policy, but you can assign an optional custom-defined policy.

Keep in mind the following rules when associating a folder or object with a security policy:

- You cannot assign a security policy to objects within folders. Objects automatically inherit the security policy of the folder in which they reside.
- The top-level folder determines the security policy. Objects within a folder, including sub folders, inherit the security policy of the parent folder. In other words, the security policy of the top-level folder determines the security policy of objects and subfolders within it. Therefore, you cannot manually assign a security policy to objects within folders. To change the security policy of an object, you must move the object into a folder with the desired security policy or into the top-level root folder.
- Security policy changes when objects are moved or copied. Objects and folders
 can be moved or copied across security policies, but the user performing the
 move or copy must have permissions to do so, in both the source and
 destination policies.

After an object or folder is moved or copied to a folder or location belonging to a different security policy than its source, the security policy of the lower-level objects or subfolders is automatically changed to the security policy of the new folder or location.

About administrative permissions in Campaign

Administrative permissions in Campaign are assigned for each partition. These administrative functions are different from the object-related functional permissions in security policies, including the global security policy. Users with these permissions can perform the allowed actions on any objects within the partition.

Each partition includes these four pre-defined roles:

- Admin All permissions enabled. The default user asm_admin is assigned this
 role.
- Execute Most permissions enabled, except for administrative functions such as performing cleanup operations, changing object/folder ownership, and managing global suppressions.
- **Design** Same permissions as the Execute role.
- **Review** Read-only access to all objects. For flowcharts, these users are allowed to access the edit mode of a flowchart, but save is not allowed.

You can add other administrative roles for each partition as needed.

The procedures for managing administrative roles and permissions in Campaign is the same as the procedures for managing roles and permissions in Marketing Platform.

To configure report folder permissions

In addition to controlling access to the **Analytics** menu item and the **Analysis** tabs for object types (campaigns and offers, for example), you can configure permissions for groups of reports based on the folder structure in which they are physically stored on the IBM Cognos[®] system.

- 1. Log in as a Campaign administrator who has the **ReportSystem** role.
- 2. Select Settings > Sync Report Folder Permissions.

The system retrieves the names the folders located on the IBM Cognos system, for all partitions. (This means that if you decide to configure folder permissions for any partition, you must configure it for all of them.)

- 3. Select Settings > User Permissions > Campaign.
- 4. Under the **Campaign** node, select the first partition.
- 5. Select Add Roles and Assign Permissions.
- 6. Select Save and Edit Permissions.
- 7. On the **Permissions** form, expand **Reports**. The Reports entry does not exist until after you run the **Sync Report Folder Permissions** option for the first time.
- 8. Configure the access settings for the report folders appropriately and then save your changes.
- 9. Repeat steps 4 through 8 for each partition.

Reference: Administrative permissions in Campaign

Campaign includes administrative permissions in the following categories:

- Administration
- · Audience Levels
- Data Sources
- Dimension Hierarchies
- History
- Logging
- Reports (folder permissions)
- System Tables
- User Tables
- User Variables

Note: You can set the permissions for all functions within a category by setting the permissions of the category heading.

Administration

Table 6. Administration (Administrative permissions)

Permission	Description
Access Monitoring Area	Allows access to the Campaign Monitoring area.
Perform Monitoring Tasks	Allows performing of monitoring tasks in the Campaign Monitoring area.
Access Analysis Area	Allows access to reports in the Campaign Analytics area.

Table 6. Administration (Administrative permissions) (continued)

Permission	Description
Access Optimizations Link	If Optimize is installed, allows access to that application.
Run svradm Command Line Tool	Allows performing of administrative functions using the Campaign Server Manager (unica_svradm).
Run genrpt Command Line Tool	Allows running of the Campaign report generation utility (unica_acgenrpt).
Takeover Flowcharts in Edit Mode	Allows taking over control of flowcharts in Edit or Run mode from other users. Note: Taking over control of a "locked" flowchart locks out the other user and all changes in the flowchart since the last save are lost.
Connect to Running Flowcharts	Allows attaching to running flowcharts through Campaign Server Manager (unica_svradm) or the Campaign user interface.
Terminate Server Processes	Allows terminating the Campaign Server (unica_acsvr) using the Campaign Server Manager (unica_svradm).
Terminate Campaign Listener	Allows terminating the Campaign Listener (unica_aclsnr) using the Campaign Server Manager (unica_svradm) or using the svrstop utility.
Run sesutil Command Line Tool	Allows running of the Campaign session utility (unica_acsesutil).
Override Virtual Memory Settings	Allows overriding the Virtual Memory setting in flowchart Advanced Settings.
Access Custom Attributes	Allows access to and managing of custom attribute definitions from the Campaign Settings page.
Cell Report Access	Allows access to cell reports from the Reports icon on a flowchart Edit page. Excludes access to the Cell Content Report unless this permission is also explicitly granted.
Cell Report Export	If cell report access is granted, allows printing and exporting of cell reports.
Cell Content Report Access	Allows access to the Cell Content report from the Reports icon on a flowchart Edit page.
Cell Content Report Export	If Cell Content Report Export is granted, allows printing and exporting of the Cell Content report.
Perform Cleanup Operations	Allows performing cleanup operations using unica_acclean or a custom tool.
Change Object/Folder Ownership	Allows changing ownership of an object or folder.

Audience levels

Table 7. Audience levels (Administrative permissions)

Permission	Description
Add Audience Levels	Allows creation of new audience levels under Manage Audience Levels on the Campaign Settings page.
Delete Audience Levels	Allows deleting of existing audience levels under Manage Audience Levels on the Campaign Settings page.

Table 7. Audience levels (Administrative permissions) (continued)

Permission	Description
Manage Global Suppressions	Allows creation and configuration of global suppression segments in Campaign.
Disable Suppression in Flowchart	Allows clearing or selecting the Disable Global Suppressions for This Flowchart check box on the flowchart Advanced Settings dialog.

Data sources

Table 8. Data sources (Administrative permissions)

Permission	Description
Manage Datasource Access	Allows managing data source logins from the Administration area and within flowcharts.
Set Save with DB Authentication	Allow enabling the Save with Database Authentication Information flag in table catalogs and flowchart templates.

Dimension hierarchies

Table 9. Dimension hierarchies (Administrative permissions)

Permission	Description
Add Dimension Hierarchies	Allows creation of new dimension hierarchies.
Edit Dimension Hierarchies	Allows editing of existing dimension hierarchies.
Delete Dimension Hierarchies	Allows deletion of existing dimension hierarchies.
Refresh Dimension Hierarchies	Allows refresh of existing dimension hierarchies.

History

Table 10. History (Administrative permissions)

Permission	Description
Log to Contact History Tables	Allows enabling or disabling logging to contact history tables when configuring contact processes.
Clear Contact History	Allows clearing entries from the contact history tables.
Log to Response History Tables	Allows enabling or disabling logging to response history tables when configuring the Response process.
Clear Response History	Allows clearing entries from the response history tables.

Logging

Table 11. Logging (Administrative permissions)

Permission	Description	
View System and Flowchart Logs	Allows viewing of flowchart logs and the system log	
Clear Flowchart Logs	Allows clearing of flowchart logs.	

Table 11. Logging (Administrative permissions) (continued)

Permission	Description	
Override Flowchart Log Options	Allows override of default flowchart logging options.	

Reports (folder permissions)

The Reports node appears on the partition permissions page after running **Sync Report Folder Permissions** from the **Settings** menu for the first time. The synchronize process determines the folder structure of the reports physically located on the IBM Cognos system, and then lists the names of those folders under this node.

The settings under this node grant or deny access to the reports in the folders that appear in the list.

System tables

Table 12. System tables (Administrative permissions)

Permission	Description	
Map System Tables	Allows mapping system tables.	
Remap System Tables	Allows remapping system tables.	
Unmap System Tables	Allows unmapping system tables.	
Delete System Table Records	Allows deletion of records from system tables.	

User Tables

Table 13. User tables (Administrative permissions)

Permission	Description	
Map Base Tables	Allows mapping base tables.	
Map Dimension Tables	Allows mapping dimension tables.	
Map General Tables	Allows mapping general tables.	
Map Delimited Files	Allows mapping user tables to delimited files.	
Map Fixed-Width Flat Files	Allows mapping user tables to fixed-width flat files.	
Map Database Tables	Allows mapping user tables to database tables.	
Remap User Tables	Allows remapping of user tables.	
Unmap User Tables	Allows unmapping of user tables.	
Recompute Counts and Values	Allows using Compute button in table mapping to recompute table counts and values.	
Use Raw SQL	Allows the use of raw SQL in Select process queries, custom macros, and dimension hierarchies.	

User Variables

Table 14. User variables (Administrative permissions)

Permission	Description	
Manage User Variables	Allows creating, deleting, and setting default values for user variables in flowcharts.	
Use User Variables	Allows use of user variables in output files or tables.	

Windows impersonation administration

This section contains the following information:

- "What is Windows impersonation?"
- "Why use Windows impersonation?"
- "What is the relationship between Campaign users and Windows users?"
- "The Windows impersonation group"
- "Windows impersonation and logging into IBM Unica Marketing" on page 43

What is Windows impersonation?

Windows impersonation is a mechanism that allows Campaign administrators to associate Campaign users with Windows users, so that Campaign processes invoked by a Campaign user run under the credentials of the corresponding Windows user.

For example, if Windows impersonation is enabled, when the Campaign user jsmith edits a flowchart, a unica_acsvr process starts under the Windows user ID associated with the Marketing Platform login name, jsmith.

Why use Windows impersonation?

By using Windows impersonation, you are able to leverage the Windows-level security permissions for file access. If your system is set up to use NTFS, you can then control access to files and directories for users and groups.

Windows impersonation also allows you to use Windows system monitoring tools to see which users are running which unica acsyr processes on the server.

What is the relationship between Campaign users and Windows users?

To use Windows impersonation, you must establish a one-to-one relationship between Campaign users and Windows users. That is, each Campaign user must correspond to a Windows user with the exact same user name.

Typically, administration begins with a set of existing Windows users who will use Campaign. You must create Campaign users in Marketing Platform with the exact same names as the associated Windows users.

The Windows impersonation group

Each Windows user for whom you have set up a Campaign user must be placed in a special Windows impersonation group. You must then assign the group to specific policies.

To ease administrative tasks, you can then grant read/write/execute privileges to the Campaign partition directory for the group.

Windows impersonation and logging into IBM Unica Marketing

When Windows impersonation is set up, once users have logged into Windows, Campaign users are automatically logged into IBM Unica Marketing using a single sign-on. When they open a browser and go to the IBM Unica Marketing URL, they do not need to log in again, and immediately see the IBM Unica Marketing start page.

Working with Windows impersonation

Setting up Windows impersonation involves the following tasks, described in this section:

- "Set the Windows impersonation property"
- "Create Campaign users"
- "Create the Windows impersonation group"
- · "Assign the Windows impersonation group to policies"
- "Assign rights to the Windows impersonation group" on page 44

Note: LDAP and Active Directory are required to run Windows impersonation. For details about setting up LDAP and Active Directory, see the *IBM Unica Marketing Platform Administrator's Guide*.

Set the Windows impersonation property

On the Configuration page, set the value of the enableWindowsImpersonation property in the Campaign > unicaACListener category to TRUE.

Note: There might be additional property requirements based on your Windows Domain Controller setup. For more information, see the single sign-on section of the *Marketing Platform Administrator's Guide*.

Create Campaign users

You can use Marketing Platform to create Campaign internal or external users.

Create external users by configuring Active Directory users and group synchronization. Each user you create must have the same login name as the user's Windows user name.

Create the Windows impersonation group

Note: You must have administration privileges on the Windows server to complete this task.

Create a Windows group specifically for Campaign users. Then add the Windows users that correspond to Campaign users to this group.

For more information about creating groups, see your Microsoft Windows documentation.

Assign the Windows impersonation group to policies

Note: You must have administration privileges on the Windows server to complete this task.

After you create a Windows group to store users that correspond to Campaign users, you must add the group to the following policies:

- · Adjust memory quotas for a process
- · Create Token object
- Replace a process level token

For more information about assigning groups to policies, see your Microsoft Windows documentation.

Assign rights to the Windows impersonation group

Using Windows Explorer, grant "read/write/execute" access to the partitions/partition_name folder under your Campaign installation to the Windows impersonation group.

For more information about assigning rights to folders, see your Microsoft Windows documentation.

About support of Proxy Server Authentication

Proxy Server Authentication support is available for customers who want to configure and run Campaign so that all internet traffic is required to pass through a proxy server. This feature enables the Active-X component for Campaign to connect through a proxy server that requires authentication, and automatically pass (per-user) stored credentials. You can configure access through a proxy using the following authentication mechanisms:

- Basic
- Digest
- NTLM (NT LAN Manager)
- Negotiate (may resolve to either Kerberos or NTLM)

Note: The actual version of the mechanisms supported is determined by the Internet Explorer browser.

About support for local area network settings in the browser

The Active-X component supports the Internet Explorer (IE) options for Local Area Network (LAN) settings for:

- Automatic configuration, including options to automatically detect settings and to use a Proxy Auto Configuration (PAC) script as an automatic configuration script.
- Proxy server, including options to use a proxy server for your LAN, to bypass proxy server for local addresses, and advanced settings for the HTTP proxy address and port as well as exceptions.

Note: The Active-X component requires the PAC file address, if provided, to use either the http or https scheme (for example, http://machine:port/proxy.pac). Although IE recognizes the file scheme (for example, file://C:/windows/proxy.pac), the Active-X component fails to locate the PAC file if the file scheme is used. The Active-X component might also be unable to locate the PAC file if authentication is required, for example if the PAC file is served by a web server that requires authentication.

To set authentication credentials for a virtual data source named proxy

For each Campaign user, in the Marketing Platform you must set authentication credentials (user name and password) for a virtual data source named "proxy". These credentials are used to connect to the proxy server.

- 1. On the **Settings** > **Users** page, add a data source named proxy for each Campaign user.
- 2. Set the user name and password for the proxy data source to the proxy server's user name and password.

Note: The data is automatically encrypted when stored in the Marketing Platform; however, the data is only encoded (not encrypted) when passed from the Web server to the Active-X implementation. If additional security is required for this communication, you must configure Campaign to use SSL.

Note: If the user name or password for the proxy server change, the user must update these authentication values to match by editing the values for the "proxy" data source for each user.

Chapter 5. Managing Configuration

When IBM Unica Marketing is first installed, the Configuration page shows only the properties used to configure the IBM Unica Marketing Platform and some global configuration properties. When you install additional IBM Unica Marketing applications, the properties used to configure these applications are registered with the Marketing Platform. These properties are then shown on the Configuration page, where you can set or modify their values.

Some applications might have additional configuration properties that are not stored in the central repository. See application documentation for complete information about all configuration options for the application.

About property categories

The **Reports**, **General** and **Platform** categories are present when the Marketing Platform is first installed. These categories contain the following properties that apply across all IBM Unica Marketing applications installed in a suite.

- · The default locale setting
- The **Security** category and sub categories with properties that specify login modes and mode-specific settings.
- Password settings
- Properties that are used to configure data filters
- Properties used to configure schedules
- Properties used to configure the reporting feature

Depending on the IBM Unica Marketing applications that are installed, additional categories contain application-specific categories and sub categories. For example, after Campaign is installed, the **Campaign** category contains Campaign-related properties and sub categories.

Identifying category types

A category can be one of three types, which are identified by different icons as follows.

Category type	Icon
Categories that contain no configurable properties	
Categories that contain configurable properties	
Template categories that you can use to create a category	-

Duplicating categories using templates

The properties for an IBM Unica Marketing application are registered with the Marketing Platform when the application is installed. When an application configuration requires that a category can be duplicated, a category template is provided. To create a category, you duplicate the template. For example, you can

create a new Campaign partition or data source by duplicating the appropriate template. You can also delete any category that was created from a template.

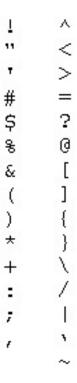
Identifying category templates

The Configuration page shows category templates in the navigation tree. You can identify a category template in the tree because its label is in italics and enclosed in parentheses.

Naming a new category

The following restrictions apply when you name a new category.

- The name must be unique among categories that are siblings in the tree (that is, among categories that share the same parent category).
- The following characters are not allowed in category names.



Also, the name cannot start with a period.

Deleting categories created from templates

By default, any category created from a template can be deleted.

Deleting categories

On the Configuration page, some categories can be deleted and others cannot. Any category you create from a template can be deleted. In addition, when an IBM Unica Marketing product is registered, its set of categories might include categories that can be deleted.

Categories that can be deleted in the Configuration page have a **Delete Category** link on the Settings page. This page appears when you select the category in the navigation tree.

About property descriptions

You can access property descriptions in either of the following ways.

- Click Help > Help for this page to launch online help. Click a product and then
 a configuration category in the pages that follow to navigate to the topic that
 describes all of the properties in a category.
- Click **Help > Product Documentation** to launch a page that gives you access to all of the product documentation in PDF format. All property descriptions are included as an appendix in the *Marketing Platform Administrator's Guide*.

About refreshing the display

A refresh button located at the top of the Configuration navigation tree provides the following functions.

- Refreshes the contents of the tree, which is useful you want to obtain the latest information about configuration settings. These settings might have been updated while you are viewing the tree (for example, when an application has been registered or unregistered or when someone else has updated settings).
- Returns the navigation tree to the state it was in the last time you selected a node, collapsing or expanding the tree as necessary.

Important: If you are in edit mode when you click **Refresh**, the page is returned to the read mode. Any unsaved changes are lost.

About the default user locale preference

The Marketing Platform contains a default locale attribute that applies to all IBM Unica Marketing applications that implement it. You can set this default by setting the value of the **Region setting** property in the **Suite** category.

For details on this property, see its online help in the Configuration area or the *Marketing Platform Administrator's Guide*. To learn whether an IBM Unica Marketing application implements this attribute, see the documentation for that application.

In addition, you can override these default values on a per-user basis by changing the value of this property in the user's account. See "Setting the per-user locale preference" on page 12 for details.

Editing property values

This section describes how to edit property values on the Configuration page.

To navigate to a category

- 1. Log in to IBM Unica Marketing.
- Click Settings > Configuration in the toolbar.
 The Configuration page shows the Configuration Categories tree.
- 3. Click the plus sign beside a category.

The category opens, showing sub categories. If the category contains properties, they are listed along with their current values.

4. Continue to expand the categories and sub categories until the property you want to edit appears.

To edit property values

1. Navigate to the category that contains the property you want to set, as described in "To navigate to a category" on page 49.

The Settings page for the category shows a list of all the properties in the category and their current values.

2. Click Edit Settings.

The Edit Settings page for the category shows the property values in editable fields.

3. Enter or edit values as needed.

In UNIX, all file and directory names are case-sensitive. The case of any file and folder name you enter must match the case of the file or folder name on the UNIX machine.

4. Click **Save and Finish** to save your changes or **Cancel** to exit the page without saving.

Duplicating and deleting categories

This section describes how duplicate and delete categories on the Configuration page.

To create a new category from a template

1. On the Configuration page, navigate to the template category you want to duplicate.

Unlike other categories, template category labels are in italics and enclosed in parentheses.

2. Click the template category.

The Create category from Template page displays.

- 3. Enter a name in the **New category name** field (required).
- 4. You can edit properties within the new category now, or later.
- 5. Click **Save and Finish** to save the new configuration.

The new category appears in the navigation tree.

To delete a category

1. On the Configuration page, navigate to the category you want to delete and click to select it.

The Settings page for the category appears.

2. Click the **Delete Category** link.

A window shows the message, Are you sure you want to delete "category name"?

3. Click OK.

The category no longer appears in the navigation tree.

Chapter 6. Configuring Reporting

For its reporting feature, IBM Unica Marketing integrates with IBM Cognos, a third-party business intelligence application. Reporting relies on the following components:

An installation of IBM Cognos

A set of IBM Unica Marketing components that integrate IBM Enterprise applications with the IBM Cognos installation

For several IBM Unica Marketing applications, reporting schemas that enable you to build reporting views or tables in the IBM system tables of the application

The example reports for the IBM Unica Marketing application, built with IBM Cognos Report Studio

This chapter describes each of the reporting components and provides information about post-installation configuration. For information about installing reporting, see the *IBM Unica Marketing Platform Installation Guide*.

About reporting in the IBM Unica Marketing suite

When you install IBM Unica Marketing applications, each application registers itself with the Marketing Platform. During that registration process, it adds an entry for itself to the **Analytics** menu item.

After the report package for the application is configured:

- The **Analytics** menu item for the application provides access to its cross-object reports.
- The single object reports then appear on the **Analysis** tabs of the appropriate objects.
- The dashboard reports for the application appear in the sample dashboards and they can be added to new dashboards.

Typically, the reports packages for the IBM Unica products are installed when the IBM Unica applications are installed. Not all of the reports packages contain reporting schemas, but they all contain the following IBM Cognos BI components:

- A customizable IBM Cognos reporting metadata model for the IBM Unica application reports
- Customizable IBM Unica application reports built with IBM Cognos 8 BI Report Studio
- Reference documentation that describes the reporting data model and the reports

The IBM Cognos model references the reporting views (or tables) in the IBM Unica application database, making that data available to the IBM Cognos reports that are also delivered in IBM Unica Reports Packages.

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Immediately after installation, the reports are in their default state and are to be considered example reports. Why? Because many IBM Unica applications have a set of objects, attributes, or metrics that can be added or customized. For example, Campaign allows you to add response types, custom campaign attributes, additional audience levels, and so on. After the data design of your system is implemented, you can revisit reporting to customize the example reports and create new reports.

How you configure the reports after the data design phase of your implementation depends on which IBM Unica applications are included in your IBM Unica Marketing system.

- For Campaign and Interact, you customize the reporting schemas and then update the views or reporting tables that were created during installation. At that point, you synchronize the Cognos data model with the newly updated reporting views and publish the revised model to the Cognos content store. Now the new custom attributes are available in Report Studio and you can add them to the sample reports, or create new reports that display the attributes.
- For the IBM Unica applications that do not provide reporting schemas and for eMessage (which provides schemas that cannot be customized), you configure the Cognos IBM reports only.

This section describes the security model, the schemas, the data models, and the reports.

About reporting and security

The reporting feature is controlled by the following access control mechanisms:

- Whether users can run reports from the IBM interface depends on permissions granted by the IBM Unica application access settings. Additionally, for Campaign, eMessage, and Interact, you can grant or deny access to groups of reports based on their folder structure on the IBM Cognos system. (This feature is not available for the other products.)
- Whether an administrator can customize the schemas or run the Report SQL Generator depends on permissions configured for the Marketing Platform.
- You can also configure the IBM Cognos 8 BI system to use IBM authentication, thereby controlling access to the IBM application data from the IBM Cognos system.

About report folder permissions

The IBM Cognos report packages that you install on the IBM Cognos system contains the report specifications for the IBM Unica applications, organized into folders. For example, the folder for Interact is named "Interact Reports" and the reports specifiations are physically located in that folder on the IBM Cognos system.

For Campaign, eMessage, and Interact, you can configure permissions for groups of reports based on the folder structure in which they are physically stored on the IBM Cognos system.

Synchronize with the IBM Cognos file directory

To make the IBM Unica system aware of the report folders on the IBM Cognos system, you run the Sync Report Folder Permissions option located on the **Settings** menu in the IBM Unica interface. This option connects to the IBM Cognos system to determine which folders are present. It then creates an entry in the user

permissions lists for the Campaign partitions. The entry, named **Reports**, appears in the permissions lists between the **Logging** and the **System Tables** entries. When you expand it, the report folder names are listed and now represent permissions.

The default setting for the new permissions is "not granted." Therefore, after you run the **Sync Report Folder Permissions** option, you must configure permissions for the report folders. Otherwise, no one has access to the IBM Cognos reports anymore.

Partitions and folder partitions

The folder synchronizing process retrieves the names of all the folders located on the Cognos system, for all partitions. If you decide to configure report folder permissions for any partition, you must configure permissions for all partitions.

About securing the IBM Cognos BI system

When your IBM system integrates with the IBM Cognos 8 BI system, the IBM Cognos system provides access to the IBMapplication data in two ways.

- From the IBM applications: when someone requests a report from the IBM interface, the IBM system contacts the IBM Cognos system which queries the reporting views or tables and then sends the report back to the IBM interface.
- From the IBM Cognos applications: when you work with the IBM application data model in Framework Manager or the reports in Report Studio, you connect to the IBM application's database.

In its default state, the Cognos system is unsecured, which means that anyone who has access to the IBM Cognos applications has access to the data from the IBM application database.

IBM Unica Authentication Provider

When IBM Cognos is configured to use IBM authentication, the IBM Unica Authentication Provider installed on the IBM Cognos 8 BI system communicates with the security layer of the Marketing Platform to authenticate users. For access, the user must be a valid IBM user and must have a role that grants one of the following permissions:

- **report_system**, which also grants access to the reporting configuration options in the IBM interface. The default role **ReportsSystem** grants this permission.
- report_user, which grants access to the reports but not to the reporting configuration options in the IBM interface. The default role ReportsUser grants this permission.

There are two authentication options: authenticated and authenticated per user.

Mode = authenticated

When the authentication mode is set to "authenticated," the communications between the IBM Unica Marketing system and the IBM Cognos system are secured at the machine level.

You configure a single report system user and identify it in the reporting configuration settings. To configure the report system user you do the following:

- Create the user and assign to it the ReportsSystem role, which grants it access to all reporting functions.
- Store login credentials for the IBM Cognos system in a user data source.

• Name it, by convention (which is not required), **cognos_admin**.

The IBM Unica Authentication Provider then authenticates users as follows.

- Each time an IBM Unica Marketing user attempts to display a report, the Marketing Platform uses the credentials stored in the report system user record in its communication with the Cognos system. The authentication provider verifies the user credentials.
- When report authors log in to the IBM Cognos applications, they log in as the report system user, cognos_admin and the authentication provider verifies the user credentials.

Mode = authenticated per user

When the authentication mode is set to "authenticated per user," the system does not use a report system user. Instead, it evaluates the user credentials of each individual user.

- Each time an IBM user attempts to display a report, the Marketing Platform includes the user credentials in its communication with the Cognos system. The authentication provider verifies the user credentials.
- When report authors log in to the IBM Cognos applications, they log in as themselves and the authentication provider verifies their credentials.

With this mode, all users must have either the ReportsUser or the ReportsSystem role in order to see the reports. Typically, you assign the ReportsSystem role to one or two administrators and assign the ReportsUser role to the user groups of the IBM users who need to see reports in the IBM interface.

Authentication vs. authorization

Other than checking for a reporting permission, the authentication provider does no authorization checking. Report authors who log in to the Cognos applications have access to all the reports on the Cognos system, no matter how their report folder permissions might be set on the IBM system.

Reporting permissions reference

Access to the reporting configuration functions and to the reports themselves are controlled by the following settings.

User interface item	Access control
Configuration option on the Settings menu (you configure reporting schemas on the Configuration page)	The Platform permission Access to Configuration located under Settings > User Roles & Permissions > Platform
Report SQL Generator and Sync Report Folder Permissions options on the Settings menu	The Report permission report_system, located under Settings > User Roles & Permissions > Report The standard ReportsSystem role has this permission.

User interface item	Access control
Analytics menu	Application access settings that vary by product, as follows:
	For Campaign, eMessage, and Interact, the Administration > Access Analysis Section permission at the campaign partition level of Settings > User Roles & Permissions .
	• For Marketing Operations and Distributed Marketing, the Analysis permissions in the security policies.
Analysis tabs	The Analysis (or Analyze) permissions in the security policies for the individual objects.
Data displayed by the reports	When the authentication mode of the Cognos system is "authenticated per user," users must have either the ReportsSystem or ReportsUser role in order to see the data in a report.

About reporting schemas

To implement reporting for Campaign, Interact, and eMessage, you start by creating reporting views or tables so the reports can extract reportable data. The report packages for these applications include reporting schemas that the Reporting SQL Generator uses to produce SQL scripts that create reporting views or tables.

For Campaign and Interact, you customize the schema templates so that all the data you want to include in your reports is represented. Then you run the Reporting SQL Generator, take the resulting scripts, and run them on your application databases.

Although you cannot customize the eMessage reporting schemas, you or the installation team must still generate the SQL that builds the reporting views or tables and then run the scripts on the eMessage databases.

The reporting schemas make it easier for you to use any third-party reporting tool to examine your IBM Unica application data. However, if you want to display reports in the IBM Unica Marketing user interface, your installation must be integrated with IBM Cognos 8 BI.

About the Reporting SQL Generator

The Reporting SQL Generator uses the reporting schemas to determine the analytic logic necessary to extract data from the database for the IBM Unica application. It then generates SQL that creates views or reporting tables that implement that logic and that enables business intelligence tools to extract reportable data.

During installation and configuration, the system implementers configured data source properties that identify the IBM Unica application databases. The Reporting SQL Generator uses connects to the application databases as follows.

- To validate scripts that create views or materialized views.
- To determine the correct data types to use in scripts that create reporting tables.

If the JNDI data source names are incorrect or missing, the Reporting SQL Generator cannot generate scripts that create reporting tables.

About the reporting deployment options

When you run the Report SQL Generator tool, you specify whether you want the script to create views, materialized views, or tables. Which deployment option you use depends on the amount of data contained in your system.

- For smaller implementations, reporting views that directly query the production data might perform sufficiently for your needs. If they do not, try materialized views
- For medium sized implementations, use either materialized views on the production system database or set up reporting tables in a separate database.
- For large implementations, configure a separate reporting database.

For all implementations, you can use Cognos Connection Administration to schedule reports that retrieve large amounts of data to run during off hours.

Materialized views and MS SQL Server

The reporting feature does not support materialized views for MS SQL Server.

In SQL Server, materialized views are called "indexed views." However, the definition that creates an index in a view on SQL Server cannot use certain aggregations, functions, and options that the reporting views include. Therefore, if you are using a SQL server database, use views or reporting tables.

eMessage and Oracle

If your installation includes eMessage and your database is Oracle, you must use materialized views or reporting tables.

Data synchronization

When you deploy with materialized views or reporting tables, determine how frequently you want to synchronize the data with the production system data. Then, use your database administration tools to schedule data synchronization processes to refresh the reporting data regularly.

About control groups and target groups in the reports

The example IBM Cognos 8 BI reports from the report packages include data from both target groups and control groups. To support these reports, the reporting schemas contain two columns for each of the default contact and response history metrics and default response types. One column represents the response from the control group and the other column represents the response from the target group.

If you plan to extend the example reports or create your own new reports, determine whether you want to include response information from both the target and control groups. If the answer is yes and you add metrics or response types, create two columns for that item in the reporting schema, one for the target and one for the control. If the answer is no, you create only the target group column in the reporting schema for that item.

About audience levels and the reports

In their default state, the reporting schemas reference the system tables for the single pre-defined audience level delivered with Campaign, Customer. This means that performance reports and response history reference the Customer audience level by default.

You can change the audience level of the reporting schemas by editing the input tables specified in the performance and response schemas so they reference the system tables for the correct audience level.

Additionally, for Campaign and Interact, you can add reporting schemas for additional audience levels. You create the reporting schemas from the templates in the Marketing Platform's configuration pages. Add the additional reporting views to the Cognos data model; and then modify the Cognos reports to accommodate the additional audience level or levels.

About audience keys in reporting schemas

When you configure the audience level for performance reports and response history, or when you create new reporting schemas for additional audience levels, you specify the audience key for the audience level. If the key includes more than one database column (sometimes referred to as a multikey audience key), you use commas between the column names. For example, ColumnX,ColumnY.

The maximum length of the string you can enter in the Audience Key field of a reporting schema is 255 characters. If the audience key is longer than 255 characters, you can work around this restriction in the generated SQL. Enter the first 255 characters of the key in the Audience Key field and generate the SQL script as usual. Then, open the generated script in an editor and use find and replace to replace each of the truncated audience key references with the complete string.

About partitions and reporting schemas

If Campaign has more than one partition, the system implementer configured a reports package on the Cognos system for each partition. However, after the data design of your system is implemented, you must revisit the reporting views or tables for each partition.

You can add reporting schemas for each partition. You create the reporting schemas from the templates in the Schemas configuration pages.

About the Framework Manager data models

A Cognos model is reporting metadata that describes physical database objects and their relationships to query subjects and query items. When you build reports in IBM Cognos 8 BI Report Studio, you build them from query subjects and items described in the model.

The data model for a IBM Unica application references the reporting views in the IBM Unica application database, making that data available to the Cognos 8 reports that are also delivered in the IBM Unica Reports Package.

When you configure the reporting views to include additional attributes, metrics, response types, and so on, you synchronize the Cognos reporting model with the reporting views and publish the revised model to the Cognos content store. At that point, those new attributes become available in Report Studio and you can add them to the IBM Unica reports.

The IBM Cognos 8 model from a IBM Unica Reports Package presents the IBM Unica application metadata in the following three categories (folders).

- Import View. This level represents the data from the reporting schemas in the IBM Unica application database. You use this view to synchronize the data model with the IBM Unica database views, materialized views, or reporting tables through the data source connection.
- Model View. This is the working area where you perform basic metadata transformations. You set up relationships between object entities represented by query subjects, creating building blocks that can be used in the Business View.
- Business View. This level organizes query subjects in terms of business objects to simplify report building. This is the information you see when you open an IBM Unica application report in Report Studio.

The Campaign and eMessage models include shortcuts from the Model View to the Business View. The Interact model does not use shortcuts in the same way because some of its query subjects span two data sources.

About the Report Studio reports

Each IBM Unica reports package contains several reports for that application built with IBM Cognos 8 Report Studio. When they are installed, you can select and run an example report from the following locations in the IBM Unica Marketing suite common user interface.

- The multiple object reports are accessible from the **Analytics** menu.
- The single object reports appear on the Analysis tab of items like campaigns or offers.
- Additionally, for Campaign, Marketing Operations, and Interact, the reports packages include reports for the IBM Unica dashboard.

About the folders, subfolders, and access settings

During installation, the system implementers imported the IBM Unica application's reports archive in Cognos Connection to the Public Folders area. Each IBM Unica application's reports are organized into folders and subfolders with names that represent both the application and the purpose of the report in that Public Folders area.

The folders and subfolders are also used by the security access control model for Campaign , Interact, and eMessage, which includes security settings for the reports by folder. That is, the security policies for those applications grant users access to all the reports in a folder. The access control model for Marketing Operations does not provide this level of access. In Marketing Operations, you either have access to all the reports or none of the reports.

As a best practice, you should not rename the folders or subfolders in the IBM Cognos Connection interface. If you do, ensure that you configure your IBM Unica application so that it recognizes the changed folder names.

- For Campaign, eMessage, and Interact, select **Settings > Configuration** and then edit the values of the reporting folder properties under **Campaign > partitions >** [partition name] > reports so they match the actual names of the folders.
- For Marketing Operations, open the plan_config.xml file and edit the values for the reportsAnalysisSectionHome and reportsAnalysisTabHome configuration settings.

About the report styles and appearance

The reporting integration components include a global stylesheet, GlobalReportStyles.css. This stylesheet establishes common reporting styles across the reports for all the IBM Unica applications. For information about styles, see the appendix Appendix B, "Style Guide for the Cognos Reports," on page 491. This appendix provides the following information for the various kinds of reports.

- The styles implemented by the GlobalReportStyles.css file.
- Style formatting that you must do manually when you author a report because there are certain styles that cannot be implemented by the stylesheet.

The dash character ("-") has special meaning in the IBM Unica reports: it denotes calculations that do not apply. For example, if the unique count in a row that shows totals cannot be calculated, a "-" is displayed to indicate that fact.

Some of the reports do not appear at their best on systems with little or no data. For example, a line graph with one data point cannot display a line, which makes the graph look empty. Additionally, graphical representations of summary data do not list the dates or times for data points that do not have data. For example, if you specify a date range that has only one day with data, the graph shows that date only.

You can customize the reports to use the chart or graph type that works best for the data from your systems.

About setting up schedules for generating reports

In IBM Cognos Connection, you can schedule the automatic running of your reports. For each report, you can select the run frequency, format options, delivery methods, locations for saving, and so on.

For example, you can schedule a report to run every Monday at 9:00 AM, and distribute the report using an auto-generated email to a specified group of recipients.

For details about scheduling and distributing reports, see the schedule chapter in the *IBM Cognos Connection User Guide*.

Customizing reporting schemas

This section describes how to customize your reporting schemas to include custom data so you can display it in your reports. The first step in this task is to determine which schema you want to modify. Then complete the steps in the procedures in this section as appropriate for the reporting goals of your system.

- "Which reporting schema?" on page 60
- "To add contact or response metrics" on page 60
- "To add custom attributes" on page 61
- "To add response types" on page 61
- "To add contact status codes" on page 62
- "To specify the calendar time periods for performance reports" on page 62
- "To configure audience level for performance reports and response history" on page 62

Which reporting schema?

The reporting schema you must modify depends on the reports you plan to customize. The appendix named "Reports and Reporting Schemas by Product" provides tables that show which reporting schemas support the sample reports provided in the report packs. Determine which reports you plan to customize and then consult the appropriate report to reporting schema map:

- · Appendix C, "Reports and Reporting Schemas," on page 499
- "Interact Reports and Reporting Schemas" on page 502
- "eMessage Reports and Reporting Schemas" on page 501

Note: You cannot customize the eMessage reporting schemas, but you can modify and create new eMessage reports.

To add contact or response metrics

You can add contact or response metrics to the Campaign Performance and Offer Performance reporting schemas. Before you begin, determine the following information.

- Which reporting schema supports the report you want to add the metric to. See the appendix Appendix C, "Reports and Reporting Schemas," on page 499 for information
- Whether you need to add a column to the reporting schema for the control group in addition to the target group. See "About control groups and target groups in the reports" on page 56
- How the metric is calculated. For example, it could be summed, averaged, or counted.

Then complete the following steps.

- 1. Select **Settings > Configuration** and expand **Reports > Schemas > Campaign >** name of the appropriate reporting schema .
- 2. Expand the **Columns** node and select either **Contact Metric** or **Response Metric**.
- 3. In the form on the right, click **New category name** and enter the name of the contact or response metric.
- 4. For **Column Name**, enter the name to use in the reporting schema for the attribute. Use all UPPERCASE letters with no spaces.
- 5. For **Function**, specify how the metric is calculated or determined.
- 6. For **Input Column Name**, enter the name of the column for this attribute from the appropriate table in the IBM Unica application database. Input column names are case-sensitive.
- 7. For **Control Treatment Flag**, enter the number 0 (zero) to indicate that this column in the reporting schema represents the target group.
- 8. Click Save Changes.
- 9. Repeat this procedure to add the control group column to the reporting schema, if necessary. This time, enter the number 1 (one) to indicate that this column represents the control group.

To add custom attributes

You can add custom campaign, offer, and cell attributes to the Custom Campaign Attributes reporting schema. Before you begin, determine the following information.

- The value from the attribute's AttributeID column in the UA_CampAttribute, UA CellAttribute, or UA OfferAttribute table, as appropriate
- The data type of the attribute: string value, number value, or date/time value

Then complete the following steps:

- Select Settings > Configuration and expand Reports > Schemas > Campaign > Campaign Custom Attributes > Columns.
- 2. Select the type of column that matches the type of attribute you want to add.
- 3. In the form on the right, click **New category name** and enter the name of the custom attribute.
- 4. For **Column Name**, enter the name to use in the reporting schema for the attribute. Use all UPPERCASE letters with no spaces.
- 5. For Attribute ID, enter the ID of this attribute.
- 6. For Value Type, specify the data type of the attribute.

Note: If you are adding an attribute that holds a currency value, specify NumberValue in the **Value Type** field. If you are adding an attribute whose **Form Element Type** was set to Select Box - String in Campaign, specify StringValue in the **Value Type** field.

7. Click **Save Changes**.

To add response types

You can add response types to the Campaign Offer Response Breakout schema. Before you begin, determine the following information.

- Whether you need to add a column to the reporting schema for the control group in addition to the target group. See "About control groups and target groups in the reports" on page 56.
- The response type code from the UA_UsrResponseType table.

Then complete the following steps:

- 1. Select **Settings** > **Configuration** and expand **Reports** > **Schemas** > **Campaign** > **Campaign** Offer **Response Breakout** > **Columns** > **Response Type**.
- 2. In the form on the right, click **New category name** and enter the name of the response type.
- 3. For **Column Name**, enter the name to use in the reporting schema for the response type.
- 4. For **Response Type Code**, enter the three letter code for this response type. Response type codes are case-sensitive.
- 5. For **Control Treatment Flag**, enter the number 0 (zero) to indicate that this column in the reporting schema represents the target group
- 6. Click Save Changes.
- 7. Repeat this procedure to add the control group column to the reporting schema, if necessary. This time, enter the number 1 (one) to indicate that this column represents the control group.

To add contact status codes

You can add contact status codes to the Campaign Offer Contact Status Breakout schema. Before you begin, determine the contact status code from the UA ContactStatus table.

Then complete the following steps:

- 1. Select Settings > Configuration and expand Reports > Schemas > Campaign > Campaign Offer Contact Status Breakout > Columns > Contact Status.
- 2. In the form on the right, click New category name and enter the name of the contact status type.
- 3. For Column Name, enter the name to use in the reporting schema for the contact status type
- 4. For Contact Status Code, enter the three letter code for this contact status. Contact status codes are case-sensitive.
- 5. Click Save Changes.

To specify the calendar time periods for performance reports

The standard reports for both Campaign and Interact include performance reports that summarize data over calendar periods. To specify time periods used in these reports to be something other than the default over time variations, complete the following steps:

- 1. Select **Settings** > **Configuration** and expand **Reports** > **Schemas** and then select either Campaign or Interact.
- 2. Select the performance schema of interest.
- 3. Click Edit Settings.
- 4. In the Schema Settings section, select the appropriate values for the Over Time Variations option list.
- 5. Click Save Changes.

To configure audience level for performance reports and response history

Before you begin, determine the following:

- The names of the contact history, detailed contact history, and response history tables for the audience level of interest.
- The audience key to the contact history and detailed contact history tables. See "About audience keys in reporting schemas" on page 57.

Then, complete the procedure in this section for each of the appropriate reporting schemas:

- For Campaign: Offer Performance, Campaign Performance, Campaign Offer Response Breakout, Campaign Offer Contact Status Breakout
- For Interact: Interact Performance
- 1. Select Settings > Configuration and expand Reports > Schemas > ProductName > SchemaName .
- 2. In the form on the right, click **Edit Settings**.
- 3. In the Input Tables section, identify the system tables for the audience level and the audience key.

Note: Remember to use commas to separate column names for a multikey audience key. See "About audience keys in reporting schemas" on page 57 for more information.

4. Click Save Changes.

Creating reporting schemas for additional audience levels or partitions

You are likely to create additional reporting schemas for the following reasons:

- You want to report on more than one audience level. Perhaps you plan to create reports that present data for more than one audience level, or add filters that prompt users to specify one of several audience levels. Therefore, you need schemas that point to an additional set of contact and response history table.
- You are configuring reporting for multiple partitions and you need to implement different schema customizations for each set of partition system tables

Before you begin, determine the following information:

- · Which reporting schemas to create.
 - For Campaign: Campaign Offer Response Breakout, Offer Performance, Campaign Performance, Offer Contact Status Breakout, and Campaign Custom Attributes
 - For Interact: Interact Performance
- The names of the following tables for this audience level.
 - For Campaign: contact history, detailed contact history, and response history tables
 - For Interact: detailed contact history and response history tables
- The name of the audience key column (or columns) for this audience level
- Pick a short 2 or 3 letter code to represent the name of the audience level. You use this code when you specify the table or view names for the new reporting schema.

Complete the steps in the following procedures as appropriate for your reporting goals.

To create a Campaign Offer Response Breakout schema

- 1. Select Settings > Configuration and expand Reports > Schemas > Campaign > Campaign Offer Response Breakout Star Schema.
- 2. Click **New category name** and enter a descriptive name for the reporting schema that indicates the audience level. For example, Campaign Offer Response Household.
- 3. In the **Input Tables** section, enter the name of the response history table for this audience level, and then click **Save Changes**.
 - A new node appears in the Configuration tree for the schema. You cannot change the name of the node.
- 4. Under the new node, select **Columns > Response Type** and then configure the response types for this audience level.
 - For help with this step, see the procedure "To add response types" on page 61.
- 5. Under the new node, select **SQL Configuration > Campaign Response Breakout** and click **Edit Settings**.

- 6. In the form that appears, edit the name in the **Table/View Name** field to include the code for the audience level. The name can be no longer than 18 characters and must be in all UPPERCASE letters.
 - For example, if the name of the audience level is household, you might specify: UARC_CRBO_HH_. For more information about table and view naming conventions, see the "Reports | Schemas | [product] | [schema name] | SQL Configuration" on page 249.
- 7. Click Save Changes.
- 8. Under the new node, select **SQL Configuration > Campaign Offer Response Breakout** and click **Edit Settings**.
- 9. Edit the name in the **Table/View Name** field to include the code for the audience level. The name can be no longer than 18 characters and must be in all UPPERCASE letters.
 - For example, UARC_CORBO_HH_.
- 10. Click Save Changes.

To create a Campaign Offer Contact Status Breakout schema

- 1. Select Settings > Configuration and expand Reports > Schemas > Campaign > Campaign Offer Response Breakout Star Schema.
- 2. Click **New category name** and enter a descriptive name for the reporting schema that indicates the audience level. For example, Campaign Offer Contact Status Household.
- 3. In the **Input Tables** section, enter the name of the response history table for this audience level, and then click **Save Changes**.
 - A new node appears in the Configuration tree for the schema. You cannot change the name of the node.
- 4. Under the new node, select **Columns > Contact Status Code** and then configure the contact status codes for this audience level.
 - For help with this step, see the procedure "To add contact status codes" on page 62.
- 5. Under the new node, select **SQL Configuration** > **Campaign Contact Status Contact History** and click **Edit Settings**.
- 6. In the form that appears, edit the name in the **Table/View Name** field to include the code for the audience level. The name can be no longer than 18 characters and must be in all UPPERCASE letters.
 - For example, if the name of the audience level is household, you might specify: UARC_CCSBO_HH_. For more information about table and view naming conventions, see the "Reports | Schemas | [product] | [schema name] | SQL Configuration" on page 249.
- 7. Click Save Changes.
- 8. Under the new node, select **SQL Configuration > Campaign Offer Contact Status Contact** and click **Edit Settings**.
- 9. Edit the name in the **Table/View Name** field to include the code for the audience level. The name can be no longer than 18 characters and must be in all UPPERCASE letters.
 - For example, UARC COCSBO HH .
- 10. Click Save Changes.

To create an Offer Performance schema

- 1. Select Settings > Configuration and expand Reports > Schemas > Campaign > Offer Performance Star Schema.
- 2. In the **New category name**, enter a descriptive name for the reporting schema that indicates the audience level. For example, Offer Performance Household.
- 3. In the **Input Tables** section, identify the tables that support the audience level and the audience key.
- 4. In the **Schema Settings** section, select the **Over Time Variations** options that apply and then click **Save Changes**.
 - A new node appears in the Configuration tree for the schema. You cannot change the name of the node.
- Under the new node in the Configuration tree, select Columns > Contact Metric and then configure the contact metrics for this audience level.
 For help with this step, see the procedure "To add contact or response metrics" on page 60.
- 6. Under the new node, select **Columns** > **Response Metric** and then configure the response metrics for this audience level.
 - For help with this step, see the procedure "To add contact or response metrics" on page 60.
- 7. Under the new node, expand **SQL Configuration**, select the first item (Offer Contact History) and click **Edit Settings**.
- 8. In the form that appears, edit the value in the **Table/View name** field to include the code for the audience level. The name can be no longer than 18 characters and must be in all UPPERCASE letters.
 - For example, if the name of the audience level is household, you might specify: UARC_OCH_HH_. For more information about table and view naming conventions, see "Reports | Schemas | [product] | [schema name] | SQL Configuration" on page 249.
- 9. Click Save Changes.
- 10. Repeat steps 7 through 9 for each item listed under the **SQL Configuration** section of the new reporting schema.

To create a Campaign Performance schema

- 1. Select Settings > Configuration and expand Reports > Schemas > Campaign > Campaign Performance Star Schema.
- 2. Click **New category name** and enter a descriptive name for the reporting schema that indicates the audience level. For example, Campaign Performance Household.
- 3. In the **Input Tables** section, identify the tables that support the audience level and the audience key.
- 4. In the **Schema Settings** section, select all the **Over Time Variations** options that apply and then click **Save Changes**.
 - A new node appears in the Configuration tree for the schema. You cannot change the name of the node.
- 5. Under the new node, select **Columns > Contact Metric** and then configure the contact metrics for this audience level.
 - For help with this step, see the procedure "To add contact or response metrics" on page 60.
- 6. Under the new node, select **Columns > Response Metric** and then configure the response metrics for this audience level.

- For help with this step, see the procedure "To add contact or response metrics" on page 60.
- 7. Under the new node, select **SQL Configuration** and select the first item, Campaign Contact History.
- 8. In the form that appears, edit the value in the **Table/View name** field to include the code for the audience level. The name can be no longer than 18 characters and must be in all UPPERCASE letters.
 - For example, if the name of the audience level is household, you might specify: UARC_CCH_HH_. For more information about table and view naming conventions, see the "Reports | Schemas | [product] | [schema name] | SQL Configuration" on page 249.
- 9. Click Save Changes.
- 10. Repeat steps 8 and 9 for each item listed under the **SQL Configuration** section of the new reporting schema.

To create a Campaign Custom Attributes schema

You need just one Campaign Custom Attributes schema for each partition. The same schema is used for all audience levels.

- 1. Select Settings > Configuration and expand Reports > Schemas > Campaign > Campaign Custom Attributes.
- 2. In the **New category name**, enter a descriptive name for the reporting schema that indicates the partition. For example, Campaign Custom Attributes Partition 2.
- 3. Under the new node in the Configuration tree, expand **Columns** and then add the custom cell, offer, and campaign attributes required by the partition for which you are creating this reporting schema.
 - For help with this step, see the procedure "To add custom attributes" on page 61.
- 4. (Optional) You can optionally edit the view or table names. Under the new node, expand **SQL Configuration** and select each item and examine the view or table names. If you decide to change the names, note that names can be no longer than 18 characters, must be in all UPPERCASE letters, and can include no spaces. For more information about table and view naming conventions, see "Reports | Schemas | [product] | [schema name] | SQL Configuration" on page 249
- 5. Click Save Changes.

To create a new Interact Performance schema

- Select Settings > Configuration and expand Reports > Schemas > Interact >
 Interact Performance Star Schema.
- 2. In the **New category name** field, enter a descriptive name for the reporting schema that indicates the audience level. For example, Interact Performance Household.
- 3. In the **Input Tables** section, identify the tables that support the audience level and the audience key.
- 4. In the **Schema Settings** section, select all the **Over Time Variations** options that apply and then click **Save Changes**.
 - A new node appears in the Configuration tree for the schema. You cannot change the name of the node.

- 5. Under the new node, select **SQL Configuration** and select the first item, Interactive Channel Offer Contact History Summary.
- 6. In the form that appears, edit the value in the **Table/View name** field to include the code for the audience level. The name can be no longer than 18 characters and must be in all UPPERCASE letters.
 - For example, if the name of the audience level is household, you might specify: UARI_ICP_OCH_HH_. For more information about table and view naming conventions, see the "Reports | Schemas | [product] | [schema name] | SQL Configuration" on page 249.
- 7. Click Save Changes.
- 8. Repeat steps 6 and 7 for each item listed under the **SQL Configuration** section of the new reporting schema.

Generating updated view or table creation scripts

This section describes the process you follow to update the default reporting views or schemas that were set up during installation and configuration of Campaign, eMessage, and Interact. If reporting has not yet been set up for your IBM Unica system, do not use the procedures in this section. Instead, see the *IBM Unica Marketing Platform Installation Guide*.

Before you begin updating views or reporting tables

Before you begin, verify that the data source properties are configured correctly:

- 1. Consult the table in "SQL scripts by data source" on page 69 to verify the database where you will run the updated scripts.
- Select Settings > Configuration and expand Reports > Schemas > ProductName.
- 3. Verify that the values set in the data source fields match the actual JNDI names of the appropriate data sources.

Generate updated SQL scripts for the reporting views or tables

This procedure describes how to generate updated SQL scripts for existing reporting views or tables. If you are configuring views or tables for the first time, do not use this procedure. Instead, see the *IBM Unica Marketing Platform Installation Guide*.

To generate updated SQL scripts, complete the following steps:

- 1. Select **Settings > Reports SQL Generator**. The SQL Generator page appears.
- 2. In the **Product** field, select the appropriate IBM Unica application.
- 3. In the **Schema field**, select one or more reporting schemas. Use the table in "SQL scripts by data source" on page 69 to determine the appropriate schemas to select.
- 4. Select the **Database Type**. This option must match the database type of the database for which you are generating the script.
- 5. In the **Generate Type** field, select the appropriate option (views, materialized views, or tables).
 - Materialized views are not an option when ${\bf Database}\ {\bf Type}$ is set to MS SQL Server.

If the JNDI data source names are incorrect or have not been configured, the SQL Generator cannot generate scripts that create tables.

- 6. Set the value in the Generate Drop Statement field to Yes.
- 7. (Optional.) To examine the SQL, click **Generate**. The SQL Generator creates the script and displays it in the browser window.
- 8. Click Download.

The SQL Generator creates the script and prompts you to specify where you want to save the file. If you selected a single reporting schema from the **Schema** field, the script name matches the name of schema (eMessage_Mailing_Execution.sql, for example). If you selected more than one reporting schema, the script name uses the product name only (Campaign.sql, for example). For a complete list of names, see "SQL scripts by data source" on page 69.

- 9. Specify the location where you want to save the script. If you change the name of the file, be sure to use something that clearly indicates which schemas you selected. Then click **Save**.
- 10. Repeat steps 7 through 10 but select No in the **Drop Statement** field this time.
- 11. Repeat steps 3 through 11 for each script you want to generate.

Note: There might be times when you want to disable script validation. For example, perhaps the Marketing Platform cannot connect to the IBM Unica application database but you want to generate the scripts anyway. To disable validation, clear the values in the data source configuration properties for reporting. When you generate the scripts, the Reports SQL Generator displays a warning that it cannot connect to the data source, but it still generates the SQL script.

Update the views or reporting tables

Note that this procedure describes updating existing views or reporting tables. If you are creating views or reporting tables for the first time, do not use this procedure. Instead, use the reports chapter in the installation guide for your IBM Unica application.

After you generate and download the SQL scripts that update your views or tables, run them on the application databases.

- 1. Locate the SQL scripts that you generated and saved. Use the table in "SQL scripts by data source" on page 69 to determine which scripts to run against which database.
- 2. Use your database administration tools to run the drop scripts.
- 3. Use your database administration tools to run the creation scripts.
- 4. **For reporting tables**, use your database administration tools to populate the new tables with the appropriate data from the production system database.
- 5. **For reporting tables and materialized views**, use your database administration tools to schedule data synchronization processes between the IBM Unica application's production databases and the new reporting tables or materialized views to run regularly.

Note: You must use your own tools for this step. The Reports SQL Generator does not generate this SQL for you.

SQL scripts by data source

The following table shows which scripts you need to generate for each data source, the resulting script names and, for creating views or materialized views, which script should be run against which IBM Unica application database. Note the following.

•

The table lists the default names for the data sources and the generated scripts, which you might have changed.

•

The Interact reporting schemas reference more than one data source. Generate a separate SQL script for each data source.

Reporting schema	Data source (default names)	Script name (default names)
All Campaign reporting schemas	Campaign system tables (campaignPartition1DS)	Campaign.sql, unless you generated separate scripts for each reporting schema. If you did, each script is named after the individual schema.
eMessage Mailing Performance	eMessage tracking tables, which are with the Campaign system tables (campaignPartition1DS)	eMessage_Mailing_ Performance.sql
Interact Deployment History, Interact Performance, and Interact Views	Interact design time database (campaignPartition1DS)	Interact.sql
Interact Learning	Interact Learning tables (InteractLearningDS)	Interact_Learning.sql
Interact Run Time	Interact run time database (InteractRTDS)	Interact_Runtime.sql

Reports SQL Generator page reference

The Reports SQL Generator uses the reporting schemas you configure to generate SQL that creates views and reporting tables.

Item	Description
Product	Lists the products whose reporting schema templates are installed.
Schema	Lists the reporting schemas for the product you selected. For more information see the following descriptions.
	Appendix C, "Reports and Reporting Schemas," on page 499
	"eMessage Reports and Reporting Schemas" on page 501
	"Interact Reports and Reporting Schemas" on page 502
Database Type	Indicates the database type of the application database where you plan to run the scripts you are generating.

Item	Description
Generate Type	 Indicates whether the scripts you are generating should create views, materialized views, or reporting tables. Materialized views are not an option when Database Type is set to MS SQL Server. If the JNDI data source names are incorrect or have not been configured, the SQL Generator cannot generate scripts that create tables. The fourth option, XML, doesn't result in a SQL script. Instead, it creates a
	description of the schema in XML. You can then use the XML file as needed with your third-party ETL or import tools. See also, "About the reporting deployment options" on page 56.
Generate Drop Statement?	Indicates whether the scripts you are generating are drop scripts or not. When updating existing views or tables, it is best practice to generate a drop script and a creation script and to then run the drop script before you run the new creation script.
	When you select Yes in the field, the SQL Generator appends the word DROP to the end of the script.
Generate	Click this option to have the SQL Generator create the script and then display it in this window. You can then copy and paste it as appropriate.
Download	Click this option to have the SQL Generator create the script and then prompt you to save it to your system. For information about the names it uses for the generated scripts, see:
	"SQL scripts by data source" on page 69.

Customizing the IBM Cognos Model

When you customize an IBM Unica reporting schema to include additional metrics, attributes, or audience levels and then modify the reporting view or tables that are based on that schema, you must also edit the IBM Cognos 8 BI model. Use IBM Cognos Framework Manager features to query the views or tables and then import the additional items in the data model.

The way you update the Cognos 8 model depends on the changes you made in the IBM Unica reporting views or tables.

- If you modified existing views by adding columns for attributes, metrics, or response types, import the new columns by updating the query object that represents the associated view.
- If you modified the over time variations for performance or runtime reports or created new reporting schemas for additional audience levels, you have added new views. In this case, use the Framework Manager MetaData Wizard to import the views into the data model.

This section provides examples that you can use as guidelines for adding your customizations to the Cognos 8 model. For more information, see the *IBM Cognos 8 BI 8.4 Framework Manager User Guide* and the Framework Manager online help.

Example: Add attributes to an existing view or table in a data model

The following example procedure shows how to add an item to an existing view in the IBM Cognos 8 model. For this example, assume that you need to add a custom offer attribute to the Campaign database and then include it in a report. You have already completed the following tasks:

- Created the offer attribute in the UA_OfferAttribute table.
- Added the offer attribute to the Campaign Custom Attributes reporting schema.
- Used the Reports SQL Generator to generate the view creation script.
- Ran the generated script in the Campaign database to update the Offer Custom Attribute reporting view, UARC_OFFEREXTATTR.

Now, to add the new offer attribute to the Cognos 8 Campaign model, you would complete the following steps.

- Make a backup of the Campaign model. That is, navigate to the Cognos/models
 directory and copy the CampaignModel subdirectory. In a distributed Cognos
 environment, the models directory is in a location on the system running the
 Content Manager.
- 2. In Framework Manager, open the Campaign.cpf file (the project) and expand the **Import View** node.
- 3. Under **Import View**, select the query object that represents the reporting view for custom offer attributes: **Import View** > **Campaign Custom Attributes** > **UARC_OFFEREXTATTR**.
- 4. Select **Tools > Update Object**. Cognos refreshes the columns listed under the node for the view so they reflect all the columns currently present in the UARC_OFFEREXTATTR reporting view in the Campaign database.
- 5. Expand the **Model View** and select the node that represents custom offer attributes in this view: **Model View > Campaign Custom Attributes > Offer Custom Attributes**.
- 6. Double-click the **Offer Custom Attributes** node to open the **Query Subject Definition** dialog box.
- 7. Locate the new column and add it to the Model View. Then edit the name of the query item so it can be read easily. For example, the column named LASTRUNDATE in the Import View of the Campaign data model appears as Last Run Date in the Model View.

Note: Because the **Business View** contains a shortcut to the **Offer Custom Attributes** node in the **Model View**, the new query item now available in the **Business View** without your having to add it manually.

- 8. Save the model.
- Publish the package to the Cognos content store.
 Now you can add the attribute to the appropriate report using IBM Cognos Report Studio.

Example: Add new views to IBM Cognos 8 data model

The following example procedure shows how to add new views or tables to the IBM Cognos 8 data model. For this example, assume that you changed the Over

Time Variations for the Campaign Peformance reporting schema and now need to import the change in the Cognos model. You have already completed the following tasks:

- Modified the Campaign Performance schema by adding Quarterly to the Over Time Variations options.
- Used the Reporting SQL Generator to generate the view creation script. This script now contains instructions to create the following additional reporting views: UARC_CCCH_QU, UARC_CCH_QU, UARC_CCRH_QU, UARC_COCH_QU, UARC_CORH_QU, and UARC_CRH_QU
- Ran the generated script in the Campaign database to create the additional reporting views.

Now, to add the new reporting views to the Cognos 8 Campaign model, you would complete the following steps.

- 1. Make a backup of the Campaign model. That is, navigate to the Cognos/models directory and copy the CampaignModel subdirectory. In a distributed Cognos environment, the models directory is in a location on the system running the Content Manager.
- 2. In Framework Manager, open the Campaign project and expand the Import View node
- 3. Select the Campaign Performance folder and run the Metadata Wizard (accessed through the right-mouse menu).
- 4. Use the Metadata Wizard to import the new views.
- 5. Expand the Model View > Campaign Performance node and model a new entry named Campaign Performance by Quarter.

For help with this step, examine the other entries for reference. Be sure to maintain the same structure and relationships that are included in the other over time variation nodes. Additionally, consult the Cognos 8 BI 8.3 Framework *Manager User Guide* for information about the following:

- Creating a new namespace.
- Creating star schema groupings.
- Adding joins.
- 6. Expand the Business View and create a shortcut to the Campaign Performance by Quarter node in the Model View.
- 7. Save the model.
- 8. Publish the package to the Cognos content store.
- 9. Open Report Studio and create a new report with the objects from the Campaign Performance by Quarter schema that you just created.

About customizing or creating Cognos reports for IBM Unica applications

As mentioned, you can customize the example reports so they include your custom data and you can create new reports. From Cognos Connection, you can configure options for the reports, schedule them to run at regular times, and you can launch Report Studio to customize them.

Consult the following sources when planning and implementing your reports.

 The user's guides for your IBM Unica applications include short descriptions of all the reports in the IBM Unica reports package for that product.

- The IBM Unica reports packages provide reference documentation that describes
 the specifications of each of the reports in the pack and the Framework Manager
 metadata model that supports the reports. Examine these documents before you
 customize a model or a report. Be sure that you understand how a report is
 constructed before you make any changes to it.
- For detailed documentation about creating and editing IBM Cognos 8 BI reports, see the IBM Cognos 8 BI documentation, especially IBM Cognos 8 BI Report Studio Professional Authoring User Guide.
- For information about the report styles you should use, see the appendix Appendix B, "Style Guide for the Cognos Reports," on page 491.
- For information about customizing Marketing Operations reports, see the *Marketing Operations Administration Guide*.

Guidelines for creating new Campaign reports

Use the following guidelines to create new reports for Campaign in IBM Cognos Report Studio:

- Examine the reference documentation that describes the metadata model and the specifications of the example reports from the Campaign report package. It is located in the CampaignReportPack\cognos8\docs subdirectory in the report package installation directory.
- Using Report Studio, create a new report, or copy and modify an existing report. For details, see the Cognos Report Studio documentation.
- If you are modifying a copy of an existing report (or the report itself), ensure that you understand how the report is constructed. Then you can add your custom attributes and metrics, and modify the objects and query items in an appropriate way, using the toolbar and Properties pane in Report Studio. For information about using Report Studio, see the Cognos Report Studio documentation. For information about the objects and query items in an example report, consult the reference documentation from the report package.
- For object-specific reports that appear on the Analysis tab, create a parameter ID
 that accepts the passed value from the object. For a system-wide report that
 appears on the Analysis page, create a prompt that contains all object values for
 campaigns or offers. For details, see the Cognos Report Studio documentation.
- Save the new report into the appropriate folder under **Public Folders** to make it visible in Campaign.
 - If it should appear on the Analysis tab, save it in the Campaign Object Specific Reports folder.
 - If it should appear on the **Analysis** page, save it in the **Campaign** folder.
 - If you plan to add it to a dashboard portlet, save it in the Unica Dashboards\Campaign forlder.

Configuring the Interaction Point Performance dashboard portlet

Interact has one IBM Cognos dashboard report: Interaction Point Summary. Because Dashboard reports do not prompt users for query parameters, the channel ID of the interactive channel in the Interaction Point Performance report is a static value. By default, the channel ID for this report is set to 1. If the channel ID is not correct for your implementation, you can customize the report and change the channel ID in the report's filter expression.

To customize any of the IBM Cognos reports, you need IBM Cognos report authoring skills. For detailed documentation about creating and editing IBM

Cognos BI reports, see the IBM Cognos BI documentation, especially *IBM Cognos BI Report Studio Professional Authoring User Guide* for the version of Cognos you are using.

For information about the queries and data items in the Interaction Point Performance report, see the reference documentation provided in the Interact report package.

If you need to display a chart for more than one interactive channel in the Dashboard, make a copy of the Interaction Point Performance Dashboard and modify the channel ID. Then create a new dashboard portlet for the new report and add it to your dashboards.

Guidelines for creating new dashboard reports

The IBM Unica reporting packages for Campaign, Interact, and Marketing Operations include reports that are specially formatted to appear on the IBM Unica dashboard. Use the following guidelines to create new dashboard reports in IBM Cognos Report Studio:

- Examine the reference documentation that describes the metadata model and
 the specifications of the example reports from the report package. It is located in
 the ProductNameReportPack\cognos8\docs subdirectory in the report package
 installation directory.
- Save all dashboard reports in the appropriate subdirectory under the main **Unica Dashboards** folder.
 - For Campaign: Unica Dashboards\Campaign
 - For Interact: Unica Dashboards\Interact
 - For Marketing Operations: Unica Dashboards\Plan. (Plan was the previous name for Marketing Operations.)
- The report must be formatted and sized so it fits properly in a dashboard portlet. See "Dashboard report styles" on page 498 in the "Style Guide for the IBM Cognos 8 BI reports" appendix for a description of the formatting you should use.
- Do not include a title in a dashboard report. The portlet it appears in will give the report its title.
- Do not include hyperlinks in a dashboard report.
- Do not include page numbers in a dashboard report.

To create a new dashboard portlet and add the report to it, see "Custom portlet types and availability" on page 86 and "To prepare the URL from an IBM Cognos dashboard report" on page 87.

Chapter 7. Creating and Managing Dashboards

Dashboards are configurable pages that contain information useful to groups of users who fill various roles within your company. You create dashboards and configure them by adding components called portlets.

IBM Unica portlets provide key metrics that might be important for IBM Unica Marketing users to track, and lists of links that provide a convenient way to access IBM Unica Marketing pages.

Dashboards can contain pre-defined IBM portlets or user-created portlets. User-created portlets can be IBM Unica Marketing pages, pages on your company intranet, or pages on the internet.

About IBM Unica pre-defined portlets

IBM Unica provides two types of pre-defined dashboard portlets, which are available for immediate addition to any dashboard you create.

IBM Unica pre-defined portlets use the Marketing Platform single-sign-on mechanism to access IBM Unica Marketing content. Users are not prompted for credentials when they view a dashboard containing these portlets.

- List: A list of IBM Unica Marketing items specific to the user. Examples of list portlets are My Recent Campaigns (Campaign), My Alerts (Marketing Operations, and the Continent Summary report (NetInsight).
- IBM Cognos report: A specially formatted version of an IBM Unica Marketing report.

You can also create your own dashboard portlets, including NetInsight reports. See "Custom portlet types and availability" on page 86 for details.

Planning dashboards

To plan how your organization uses the dashboard feature, you should work with your marketing management team to decide the following details.

- Which dashboards your users need.
- · Which users should have access to which dashboards.
- Which portlets should go into each dashboard.
- Who should be designated as the dashboard administrator for each dashboard
 after the dashboards are rolled out. The dashboard administrator manages user
 access to the dashboard and modifies individual dashboard content and layout if
 necessary.

Dashboard audiences

You can control who views your dashboards by associating them with groups or by assigning individual users to them. Members of a group can access the dashboard or dashboards associated with that group, while non-members cannot view these dashboards.

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You can also create one or more global dashboards, which can be seen by all IBM Unica Marketing users within a partition regardless of their group membership or individual assignments.

When you create a global dashboard, you should include portlets that are of interest to the widest possible range of users. For example, if you have installed Campaign, you may want to include the My Custom Bookmarks portlet, one of the pre-defined IBM portlets.

When the Marketing Platform is first installed, no dashboards exist.

Global dashboards

When you create a dashboard, you can choose to make it available only to members of Marketing Platform groups that you choose, or you can choose to make it a global dashboard. Global dashboards can be viewed by all members of the partition to which the dashboard belongs, regardless of the group membership.

You should include portlets in global dashboards that are of interest to the widest possible range of users. For example, if you have installed Campaign, you may want to include the My Custom Bookmarks portlet, one of the pre-defined IBM portlets.

User permissions required to view dashboards

Dashboards allow IBM Unica Marketing users to view pages from multiple products (such as Marketing Operations and Campaign) in a single page, regardless of the permissions that are configured for them within those products.

Some dashboard portlets allow users to perform work in an IBM Unica Marketing product by clicking a link within a portlet to open a page on which they can work. If the user does not have permissions to perform the task, the page does not display.

Some content within portlets is filtered based on the user. For example, if a user never works directly with campaigns, the My Recent Campaigns portlet might not display any links.

IBM Unica pre-defined portlet availability

IBM Unica provides pre-defined portlets with many of its products. Availability of the IBM Unica pre-defined portlets depends on the IBM Unica Marketing products you have installed. Also, the IBM Cognos portlets are available only when the IBM Unica Marketing reporting feature is implemented.

You must enable the pre-defined IBM Unica portlets in the Marketing Platform before you can use them in a dashboard. IBM Unica portlets are listed in the Marketing Platform whether or not the product they belong to is installed. It is a good practice to enable portlets that belong only to products that are installed. Only the portlets that are enabled appear in the list of portlets you can add to a dashboard.

IBM Cognos report performance considerations

Reports are desirable components to add to dashboards because they add a visual element that makes it easy to scan large amounts of data. However, because reports require additional processing resources, performance can become an issue when many users access dashboards that contain many reports on a regular basis.

While organizations use data in different ways tailored to their needs, this section provides some general guidelines that should help you improve performance for dashboards that contain IBM Cognos reports. All of these guidelines apply to IBM Cognos report portlets, which are the most resource-intensive.

Scheduling runs in IBM Cognos

IBM Cognos reports can be scheduled to run at regular intervals. When a report is scheduled, it does not run every time a user accesses a dashboard containing that report. The result is improved performance of dashboards containing the report.

Only IBM reports that do not contain a user ID parameter can be scheduled in Cognos. When a report has no ID parameter, all users see the same data; the data is not filtered based on the user. The following portlets cannot be scheduled.

- All of the Campaign pre-defined portlets
- The Marketing Operations My Task Summary and My Approval Summary pre-defined portlets

Scheduling reports is a task that you perform in IBM Cognos; consult the Cognos documentation to learn more about scheduling in general. For specific scheduling requirements for dashboard portlets, see "To schedule a dashboard report" on page 78.

Data considerations

You should plan scheduled runs based on the data contained in the report. For example, you would run the Offer Responses for Last 7 Days dashboard report every night so that it contains information relevant to seven days preceding the current day. In contrast, you might choose to run the Marketing Financials Position dashboard report once a week, because it compares financial indicators on a quarterly basis.

User expectations

An additional scheduling consideration is how frequently the intended users of the report expect the data to be updated. You should consult users about this when planning schedules.

Guidelines

Here are some broad guidelines to help you plan scheduling for dashboard IBM Cognos reports.

- Reports that include roll-up information should generally be scheduled to run every night.
- Reports that contain many calculations should be placed on a schedule.

To schedule a dashboard report

To schedule a dashboard report (either a pre-defined or user-created portlet), you must first create a view and schedule it, and then configure the portlet as described here.

Note: You can schedule only those reports that are not filtered by user.

- 1. In Cognos, copy the report and save it under a new name.
- 2. In Cognos, open the copied report and save it as a view with the same name as the original report. Save it in the Unica Dashboard/Product folder, where Product is the appropriate product folder
- 3. In Cognos, schedule the view.
- 4. In IBM Unica Marketing, add the report to the dashboard, if you have not done so already.
 - See "To add a pre-defined portlet to a dashboard" on page 84 or "To add a user-created portlet to a dashboard" on page 89.
- 5. Only if the report is one of the pre-defined portlets, do the following in IBM Unica Marketing.
 - On the Dashboard Administration page, click the **Edit portlet** icon next to the portlet.
 - Select Yes next to Has this report been scheduled?
 - · Click Save.

Pre-defined portlet descriptions

This section provides descriptions of all of the IBM pre-defined dashboard portlets, organized by product and portlet type.

Marketing Operations IBM Cognos report portlets

This section describes the Marketing Operations dashboard portlets that are available in the Marketing Operations reports package.

Table 15. Standard Marketing Operations IBM Cognos report portlets

Report	Description
My Task Summary	An example IBM Cognos report showing data about all active and completed tasks for the user viewing the report in all In Progress projects.
My Approval Summary	An example IBM Cognos report showing data about active and completed approvals for the user viewing the report.
Manager Approval Summary	An example IBM Cognos report showing data for active and completed approvals for all In Progress projects in the system.
Projects by Project Type	An example IBM Cognos report showing a 3-D pie diagram that shows all In Progress projects in the system by template type.
Projects by Status	An example IBM Cognos report showing a 3-D bar chart that shows all projects in the system by status: draft, in progress, on hold, canceled, and finished.
Manager Task Summary	An example IBM Cognos report showing data for active and completed tasks for all In Progress projects.

Table 15. Standard Marketing Operations IBM Cognos report portlets (continued)

Report	Description
Marketing Financials Position	An example IBM Cognos report showing a timeline with Budget, Forecasted, Committed, and Actual amounts for all plans in all states in the current calendar year. This report requires the Financial Management module.
Spend by Project Type	An example IBM Cognos report showing a 3-D pie chart of the actual amount spent per project type in the current calendar year. This report requires the Financial Management module.
Completed Projects by Quarter	An example IBM Cognos report showing a 3-D bar chart of the number of early, on-time, and late projects completed this quarter.
Projects Requested and Completed	An example IBM Cognos report showing a timeline graph of the number of project requests and number of completed projects per month. This report counts project requests with the following states only: Submitted, Accepted, or Returned.
Forecast by Project Type	An example IBM Cognos report showing a 3-D pie chart of the forecasted spending per project type for the current calendar year.
Budget by Project Type	An example IBM Cognos report showing a 3-D pie chart of the budget per project type for the current calendar year. This report requires the Financial Management module.

Marketing Operations list portlets

This section describes the standard Marketing Operations portlets that are available for use on dashboards even if the Marketing Operations reports package is not installed.

Table 16. Standard Marketing Operations portlets

Report	Description
Approvals Awaiting Action	List of approvals waiting for your action.
Manage My Tasks	Lists your Pending and Active tasks and Not Started and In Progress approvals. An option to change the status of each item appears.
	For tasks, you can change the status to Finish or Skip.
	For Not Started approvals, you can change the status to Submit or Cancel.
	For In Progress approvals that you own, you can change the status to Stop, Finish, or Cancel.
	For In Progress approvals that you are assigned to approve, you can change the status to Approve or Reject.
My Active Projects	Lists your active projects.
My Alerts	Lists your Marketing Operations alerts.
My Requests	Lists requests that you own.
My Tasks	Lists tasks that you own.
Projects Over Budget	Lists all projects that are over budget for the calendar year. This report requires the Financial Management module.

Campaign IBM Cognos report portlets

This section describes the dashboard portlets that are available in the Campaign reports package.

Report	Description
Campaign Return on Investment Comparison	An IBM Cognos report comparing, at a high level, the ROI of campaigns created or updated by the user viewing the report.
Campaign Response Rate Comparison	An IBM Cognos report comparing the response rates of one or more campaigns created or updated by the user viewing the report.
Campaign Revenue Comparison by Offer	An IBM Cognos report comparing the revenue received to date per campaign containing offers created or updated by the user viewing the report.
Offer Responses for Last 7 Days	An IBM Cognos report comparing the number of responses that were received over the last 7 days based on each offer created or updated by the user viewing the report.
Offer Response Rate Comparison	An IBM Cognos report comparing the response rate by offer created or updated by the user viewing the report.
Offer Response Breakout	An IBM Cognos report showing the various active offers created or updated by the user viewing the report, broken out by status.

Campaign list portlets

This section describes the standard Campaign portlets that are available for use on dashboards even if the Campaign reports package is not installed.

Report	Description
My Custom Bookmarks	A list of links to websites or files created by the user viewing the report.
My Recent Campaigns	A list of the most recent campaigns created by the user viewing the report.
My Recent Sessions	A list of the most recent sessions created by the user viewing the report.
Campaign Monitor Portlet	A list of the campaigns that have run or are currently running that were created by the user viewing the report.

Interact IBM Cognos report portlet

Interaction Point Performance - Shows the number of offers accepted per interaction point over a seven day period.

This dashboard report is defined to point to the interactive channel with the ID of 1. To create additional versions of this report (to report on additional interactive channels) or to change the ID of the interactive channel that this report points to, see "Configuring the Interaction Point Performance dashboard portlet" on page 73.

Distributed Marketing list portlets

This section describes the standard Distributed Marketing portlets that are available for use on dashboards.

Report	Description
List Management	A list of active Lists for the user viewing the report.
Campaign Management	A list of active Corporate Campaigns and On-demand Campaigns for the user viewing the report.
Subscription Management	A list of subscriptions to Corporate Campaigns for the current user.
Calendar	The Calendar showing the schedule for active Corporate Campaigns and On-demand Campaigns.

Optimize list portlets

The standard Optimize portlets that are available for use on dashboards.

Table 17. Optimize list portlets

Report	Description
My Recent Optimize Sessions	A list of the last 10 Optimize sessions, run by the user viewing the report within the last 30 days.
My Recently Successful Optimize Run Instances	A list of the last 10 Optimize sessions, run by the user viewing the report that completed successfully within the last 30 days.
My Recently Failed Optimize Run Instances	A list of the last 10 Optimize sessions, run by the user viewing the report that did not complete successfully within the last 30 days.

Attribution Modeler IBM Cognos report portlet

This section describes the dashboard portlets that are available in the Attribution Modeler reports package.

Report	Description
Channel-Campaign- Offer Attribution	An IBM Cognos report that shows the following data about each offer in each campaign in each channel.
Drill-Down	Number of interactions
	Number of responses
	Percentage of responses
	Revenue
	Average revenue per response
	Cost per response
	Return on Investment (ROI)

Interaction History IBM Cognos report portlet

This section describes the dashboard portlets that are available in the Interaction History Cross-Channel reports package.

Report	Description
Cross-Channel Summary Over Time	An IBM Cognos report that shows the following data about each channel.
	Number of campaigns
	Number of interactions
	Number of reponses
	Percentage of reponses
	Revenue
	Average revenue per respnse
	Cost per response
	Return on Investment (ROI)

Setting up dashboards

Topics in this section describe how to set up dashboards

Permissions required to administer dashboards

Only users with the Administer Dashboards permission in a partition can administer all of the dashboards in that partition. By default, this permission is granted to users with the AdminRole role in the Marketing Platform.

When the Marketing Platform is first installed, a pre-defined user, asm_admin, has this role for the default partition, partition1. See your administrator for the appropriate dashboard administrator credentials.

A user with the AdminRole role in the Marketing Platform can assign any IBM Unica Marketing user to administer individual dashboards in the partition to which that user belongs. Dashboard administration is done in the dashboard administration area of the Marketing Platform.

Dashboards and partitions

If you are administering dashboards in a multi-partition environment, read this section to understand how multiple partitions affect dashboards. See "About partitions and security management" on page 16 for information about how to set up partition membership for users.

In a multi-partition environment, a user can view or administer only those dashboards associated with the partition to which the user belongs.

When a dashboard administrator creates a dashboard, the following partition-related rules apply.

- Any dashboard that is created is available only to members of the same partition as the user who created it.
- Only those pre-defined portlets that are enabled in the partition to which the administrator belongs are available for inclusion in the dashboard.
- Only groups and users assigned to the same partition as the administrator are available for assignment to the dashboard.

When you have multiple partitions configured, the procedure for setting up dashboards is as follows.

- 1. Before working with dashboards, associate one or more groups with each partition, and assign the appropriate users to each group.
 - Only the platform_admin user, or another user with the PlatformAdminRole permissions can perform this task.
 - See Chapter 4, "Managing Security in IBM Unica" for information about these tasks.
- 2. For each partition, ensure that at least one user has the Administer Dashboards permission, and make a note of these user names.
 - The Marketing Platform AdminRole role has this permission by default, but you might want to create a role with more restricted access for dashboard administrators. These dashboard administrators can administer all dashboards within their partition.
- 3. For each partition configured in your system, do the following.
 - a. Use an account that is a member of the partition and that can administer all dashboards in a partition to sign in to IBM Unica Marketing.
 - Refer to the list of users you created in the previous step.
 - b. On the **Settings > Dashboard Portlets** page, enable pre-defined portlets as needed.
 - See "To enable or disable pre-defined portlets" for details.
 - **c**. On the Dashboard Administration page, create the needed dashboards and add portlets.
 - d. For each non-global dashboard, assign users who can view the dashboard. You can assign individual users or groups to the dashboard.
 - e. For each dashboard, assign one or more users as dashboard administrator.

See the remainder of this chapter for detailed information about performing these tasks.

To enable or disable pre-defined portlets

Perform this task before you begin to create dashboards. You should enable only those portlets that reference IBM Unica products that you have installed.

- 1. Log in to IBM Unica Marketing and select **Settings > Dashboard Portlets**.
- 2. Click the check box next to portlet names to enable or disable them.

 A check mark enables a portlet, and clearing the check box disables a portlet.

 The portlets you selected are enabled and are available for inclusion in dashboards.

To create a dashboard

- 1. In IBM Unica Marketing, select Dashboard
 - A Dashboard Administration page opens. All dashboards associated with your partition are shown.
- 2. Click Create Dashboard.
 - A Create Dashboard page opens.
- 3. Enter a unique title (required) and description (optional).
- 4. Select a dashboard type.
 - If you want to restrict access to users who belong to a group associated with the dashboard, select **User or Group-Specific Dashboard**.

 If you want all users in the partition to be able to view the dashboard, select Global Dashboard for Everyone.

5. Click **Save**.

Your new dashboard appears as a tab on the Dashboard Administration page, and is listed on the Administration tab.

To add a pre-defined portlet to a dashboard

See "Custom portlet types and availability" on page 86 for information about adding user-created portlets to a dashboard.

1. In IBM Unica Marketing, select Dashboard and then select the tab for the dashboard you want to work with.

2. Click Manage Portlets.

A Manage Portlets page opens, listing the enabled portlets.

You can also access the Manage Portlets page from the Administration tab, by clicking the Manage Portlets icon on the dashboard.

3. Select the check box next to one or more portlets to select it for addition to the dashboard.

Use the following features to assist you in selecting portlets.

- Filter the list of portlets by name or by the product that is the source of the portlet.
- Display all portlets at once or page through the list.
- Click column headings to sort the list alphabetically by source or portlet name, in ascending or descending order.
- 4. Click Update.

The selected portlets are added to the dashboard.

To lay out a dashboard

- 1. In IBM Unica Marketing, select Dashboard and then select the tab for the dashboard you want to work with.
- 2. Drag the portlets to arrange them on the page.
- 3. Click Save Layout.

To assign or change a dashboard administrator

1. In IBM Unica Marketing, select Dashboard

A Dashboard Administration page opens. All dashboards associated with your partition are shown, with their portlets listed.

- 2. Click the Manage Permissions icon at the bottom of the dashboard you want to work with. A Manage Permissions tab opens.
- 3. Click the Manage Dashboard Administrators icon. A Manage Dashboard Administrators page opens. All dashboards associated with your partition are shown, with their portlets listed.
- 4. Select or deselect names.

Users whose names are selected have administration permissions for the dashboard.

You can do the following to find users.

- Filter the list by entering all or part of a user name in the **Search** field.
- Display all users, or only unassaigned users, or only assigned users.

- Sort the list by clicking column headings.
- Display all users at once (based on your filtering criteria) or page through the list.
- 5. Click **Update**.

To remove a portlet from a dashboard

- 1. In IBM Unica Marketing, select Dashboard.
 - A Dashboard Administration page opens. All dashboards associated with your partition are shown, with their portlets listed.
- 2. In the dashboard where you want to remove a portlet, click the **Delete** icon next to the portlet you want to remove.
- 3. Click Yes, Delete at the prompt.
 - The portlet is removed from the dashboard.

To change the name or properties of a portlet

- 1. In IBM Unica Marketing, select Dashboard
 - A Dashboard Administration page opens. All dashboards associated with your partition are shown, with their portlets listed.
- 2. In the dashboard you want to work with, click the **Edit Portlet** icon next to the portlet whose name you want to change.
 - An Edit Portlet window opens.
- 3. Edit the name, description, URL, or hidden variables of the portlet.
- 4. Click Save.

To change the name or properties of a dashboard

- 1. In IBM Unica Marketing, select Dashboard
 - A Dashboard Administration page opens. All dashboards associated with your partition are shown.
- 2. In the dashboard you want to work with, click the **Manage Settings** icon at the bottom of the dashboard.
 - A Settings tab opens.
- 3. Click the Edit Dashboard icon.
 - An Edit Dashboard window opens.
- 4. Edit the title, description, or type of the dashboard, enable or disable it, or change whether users can change the layout..
- 5. Click Save.

To delete a dashboard

- 1. In IBM Unica Marketing, select Dashboard
 - A Dashboard Administration page opens. All dashboards associated with your partition are shown.
- 2. In the dashboard you want to work with, click the **Delete Dashboard** icon at the bottom of the dashboard.
- 3. When prompted, click Yes, Delete.
 - The dashboard is deleted.

Creating and using custom portlets

Topics in this section describe how to create and use custom portlets.

Custom portlet types and availability

You can create portlets from the following types of IBM Unica Marketing pages.

- Any IBM Unica Marketing IBM Cognos report, including Interact Interaction Point Performance reports that you have customized to point to additional interactive channels. You can customize any existing dashboard reports, or you can customize a non-dashboard report. If you customize a non-dashboard report, see "Guidelines for creating new dashboard reports" on page 74.
- Any NetInsight or NetInsight On Demand report or dashboard that auto-updates.
- Any IBM Coremetrics[®] Web Analytics report.

In addition, you can create a portlet from a page on the internet or your company intranet.

Unlike the IBM pre-defined portlets, the portlets you create yourself are available only in the dashboard in which you create it.

Authentication considerations for custom portlets

When you are planning to create portlets, you should keep in mind the following authentication considerations.

- If your portlet is a NetInsight report from an on-premises installation configured to use the Marketing Platform for authentication or to use no authentication, or a dashboard report from any other IBM Unica Marketing product that uses the Marketing Platform for authentication, users are not prompted for credentials when they view the portlet.
- If your portlet is a NetInsight report from an on-premises installation that is not configured to use the Marketing Platform for authentication, the user must enter login credentials one time per browser session.
- If your portlet is a NetInsight On-Demand report or an internet or intranet page that requires authentication, the portlet behaves as a browser would. The user must enter login credentials in the content of the page the first time they view it during a browser session, and cookies are used to keep the user logged in.
- If your portlet is an IBM Coremetrics Web Analytics report, users can view only
 those reports for which they have permissions in IBM Coremetrics. Also, if
 single-sign-on is enabled with IBM Coremetrics, users can view IBM Coremetrics
 reports in Marketing Platform dashboards without entering their credentials.
 Otherwise, users must enter their IBM Coremetrics credentials to view IBM
 Coremetrics reports in a Marketing Platform dashboards.

Portlet creation process overview

This section provides an overview of the steps for creating a portlet, which are described in detail elsewhere in this guide.

Obtain and prepare the URL of the page you want to use as a portlet.
 To do this, you obtain the URL and modify it as needed.
 The following procedures describe how to prepare the URL for the various portlet sources.

- NetInsight on-premises report "To prepare the URL from an on-premises NetInsight report"
- IBM Unica Marketing IBM Cognos report "To prepare the URL from an IBM Cognos dashboard report"
- Coremetrics report "To prepare the URL from an IBM Coremetrics Web Analytics report" on page 88
- NetInsight On Demand report and pages on the internet or your company intranet - "To prepare the URL from an intranet or internet page" on page 88
- 2. Add the portlet to a dashboard.

See "To add a user-created portlet to a dashboard" on page 89.

To prepare the URL from an on-premises NetInsight report

Use this procedure for reports in an on-premises NetInsight installation.

- In NetInsight, display the report you want to export.
 If you are using a NetInsight dashboard, only the top left report on the dashboard is exported.
- 2. Click the **Export** icon located in the toolbar at the upper right of the report.

The Export options window opens.

- 3. Complete the fields as follows.
 - Select **Portlet URL** from the **Export Type** drop-down.
 - Select Web Browser from the Format of Report drop-down.
 - Specify the number of values to include in the report.
 - Specify the width of the report graphic, in pixels. Path reports self-adjust their size, regardless of the width you specify. Stacked bar reports automatically increase the width you specify by 30%.
 - Choose to hide the report header, as the portlet has a title that you can edit.
- 4. Click Export.

The report URL is displayed in a dialog box.

- 5. Copy the URL and paste it into a text editor.
- 6. Encode the URL using a web tool that you can find by searching for "URL encoding" or "percent encoding."
- 7. Add the following to the beginning of the URL: YourIBMUnicaURL/ suiteSignOn?target= where YourIBMUnicaURL is the login URL for your installation of IBM Unica Marketing.

For example, suppose you have the following information.

- Your IBM Unica Marketing URL is http://myHost.myDomain:7001/unica
- Your encoded NetInsight report URL is MyEncodedReportURL

Your final URL would be http://myHost.myDomain:7001/unica/suiteSignOn?target=MyEncodedReportURL

To prepare the URL from an IBM Cognos dashboard report

For information about creating dashboard reports with IBM Cognos, see "Guidelines for creating new dashboard reports" on page 74.

The format of an IBM Cognos dashboard portlet URL is as follows.

http(s)://HOST.DOMAIN:port/unica/reports/jsp/
dashboard portlet.jsp?product=Product& report=ReportName

where

- *Product* is the name of the IBM Unica application's subfolder in the **Unica Dashboards** folder on the IBM Cognos system. That is: Campaign, Interact, or

 Plan for Marketing Operations. (Plan was the previous name of the Marketing

 Operations application.)
- ReportName is the HTML-encoded name of the dashboard report. For example: Campaign%20Performance%20Comparison

For example,

http://serverX.companyABC.com:7001/unica/reports/jsp/dashboard_portlet.jsp?product=Campaign&report=Campaign%20Performance %20Comparison

If you have scheduled the report as described in "To schedule a dashboard report" on page 78, add the following to the end of the URL:

&isView=true

Note: Encode the URL using a web tool that you can find by searching for "URL encoding" or "percent encoding."

To prepare the URL from an IBM Coremetrics Web Analytics report

Use this procedure for IBM Coremetrics reports.

If you want users to be able to view IBM Coremetrics reports in dashboards without having to log in to IBM Coremetrics, you must enable single sign-on between IBM Unica Marketing and IBM Coremetrics. See Chapter 9, "Enabling single sign-on between IBM Unica Marketing and IBM Coremetrics Web Analytics," on page 101 for details.

- 1. Log in to IBM Coremetrics and navigate to Manage > API.
- 2. Select a report category and then select a report name.
- 3. Click Generate API URL and Copy to Clipboard.
- 4. Copy the URL and paste it into a text editor.
- 5. By default, the reports return 25 rows at a time. To modify the number of rows that are returned, add the following to the end of the copied URL.

&rowCount= followed by a number representing the number of rows you would like to have returned.

For example, &rowCount=50

To prepare the URL from an intranet or internet page

Use this procedure for intranet or internet pages, including On-Demand NetInsight pages.

- Point your browser to the desired page and copy the URL from your browser's address field.
- 2. Encode the URL using a web tool that you can find by searching for "URL encoding" or "percent encoding."

To add a user-created portlet to a dashboard

Before performing this procedure, you should have prepared a URL as described elsewhere in this section.

- 1. In IBM Unica Marketing, select **Dashboard** and then select the tab for the dashboard you want to work with.
- 2. Click Manage Portlets.
 - A **Manage Portlets** window opens.
- 3. Click Create Custom Portlet.
 - A Create Custom Portlet window opens.
- 4. Complete the fields and click Save.

The window closes and you return to the dashboard tab. The new portlet is located in the upper left corner, where it may overlay a previously added portlet. Click and drag the portlet heading to place the portlet in an appropriate position in the dashboard.

5. Click Save Layout.

Manage Portlets window reference

Field	Description
Portlet Name	Enter an appropriate name for the portlet.
Portlet Description	Enter a description for the portlet that lets other adminbistrators know why it is part of this dashboard.
Portlet URL	Paste in your prepared URL.
Hidden Variables	If your portlet requires users to log in, you can enter name/value pairs to securely send these credentials to the site. You must obtain the expected variable name from the web site.

Administering dashboard membership

Topics in this section describe how to manage dashboard membership.

About dashboard administration tasks

If you have been designated a dashboard administrator, you are responsible for managing the membership, layout, and content of that dashboard.

Tasks related to modifying the layout and content of a dashboard are described in *Setting up Dashboards*.

This section describes how to manage dashboard membership.

To grant or remove dashboard membership

1. In IBM Unica Marketing, select **Dashboard** and then select the tab for the dashboard you want to work with.

- 2. Click the **Manage Permissions** icon at the bottom of the dashboard you want to work with.
 - A Manage Permissions tab opens.
- 3. Click the Manage Dashboard Users icon.
 - A Manage Dashboard Users page opens.
- 4. Select or deselect the checkbox to grant or remove access to the dashboard.

Users whose names are selected can view the dashboard.

You can do the following to find users.

- Filter the list by entering all or part of a user name in the **Search** field.
- Display all users, or only unassaigned users, or only assigned users.
- Sort the list by clicking column headings.
- Display all users at once (based on your filtering criteria) or page through the list.
- 5. Click Update.

Chapter 8. Scheduling Runs with the IBM Unica Scheduler

The IBM Unica Scheduler enables you to configure a process to run at intervals that you define. Currently, you can use the IBM Scheduler to schedule the following.

- Campaign flowchart runs
- · Optimize optimization session and post-optimization flowchart runs
- eMessage mailings
- PredictiveInsight model and score runs

The scheduler uses two basic concepts: schedules and runs.

- A schedule is any task that you want to run once or on a recurring basis. When you define a schedule you specify the IBM Unica Marketing object, the frequency with which the task is run, and the start and end dates.
- A run is an execution instance of a schedule.

There are two types of schedules.

- Time-based Runs occur at specified times.
- Trigger-based Runs occur when a schedule receives a specified trigger (for example, when another schedule sends a trigger on success or failure of its run).

You can configure either type of schedule to run one time, or on a recurring basis.

Difference between the Campaign Schedule process and IBM Unica Scheduler

Starting with the 8.0 release of IBM Unica Marketing, the IBM Unica Scheduler is intended to replace the Campaign Schedule process for scheduling runs of an entire flowchart. The IBM Unica Scheduler is more efficient, as it does not consume any server system resources when the flowchart is not actually running. The IBM Unica Scheduler starts a flowchart even if it is not running, while the Campaign Schedule process in a flowchart works only if the flowchart is running.

The Campaign Schedule process is preserved for full compatibility with earlier versions, and for other use cases not handled by the IBM Unica Scheduler. For example, you might want to use the Campaign Schedule process to send Campaign triggers or to delay execution of dependent processes.

Do not use the IBM Unica Scheduler to schedule a flowchart that uses the Campaign Schedule process as the top-level process that starts a flowchart run. Typically, only one or the other is necessary. However, if the Schedule process appears in a flowchart that is started by the IBM Unica Scheduler, it functions as configured; conditions required by the IBM Unica Scheduler and the Schedule process must be met before subsequent processes run.

Unlike the IBM Unica Scheduler, the Campaign Schedule process can send external triggers to call command-line scripts. The IBM Unica Scheduler can send triggers only to its own schedules.

Scheduler triggers

You can set up a scheduler trigger when you create or edit a schedule.

A trigger is a text string that the IBM Scheduler can send when a run completes successfully or when a run fails. If you have a schedule that sends a trigger on completion, you can set another schedule to start a run when it receives that trigger.

All schedules receive all sent triggers, but a schedule initiates a run only if the trigger string matches the trigger string for which it is waiting. An unlimited number of dependencies between schedules can be created in this manner.

After you have created a trigger, it appears in a dropdown list of triggers in the Scheduler user interface, which makes it easy to use again.

Trigger example

You can schedule a set of Campaign flowcharts to run at the same time by giving all of them the same trigger. You can also use triggers to cause a set of flowcharts to run in series, one after another.

The following example illustrates how to set up a series of flowcharts to run in a specified order.

- Flowchart 1 is scheduled with a "Flowchart 1 run complete" trigger that is sent when the run completes successfully.
- Flowchart 2 is scheduled as follows.
 - Start when a "Flowchart 1 run complete" trigger is received.
 - Send a "Flowchart 2 complete" trigger when the run completes successfully.
- Flowchart 3 is scheduled to start when a "Flowchart 2 run complete" trigger is received.

About start triggers

A schedule that is set up with a start trigger begins to listen for a trigger as soon as it is created, regardless of its start date. However, the trigger does not override the start date. For example, if a schedule has a start date of December 12, 2010 and on December 5, 2010 it receives its start trigger, the run will not start until December 12, 2010.

Inbound triggers

Starting with the 8.6.0 release, the IBM Scheduler can respond to triggers sent by an external application. The scheduler_console_client utility enables this feature. This utility issues triggers that can launch one or more schedules set up to listen for that trigger.

Because scheduler_console_client is a batch script application, it can be called by external applications, possibly using another batch script.

For example, if you set up a schedule that is listening for a trigger "T1," you could run the scheduler_console_client utility with the following command to send the T1 trigger: scheduler_console_client.bat -v -t T1

The utility can provide the following information.

- A list of the schedules that are configured to listen for any given trigger.
- Whether it has successfully sent the trigger (although it cannot report whether the schedule that is listening for the trigger executed successfully).

See "The scheduler_console_client utility" on page 198 for complete details on using this utility.

Security considerations

Scheduling within the enterprise applications is considered to be an administrator's activity. It is assumed that any user who has the execute permission for the scheduler_console_client utility is also authorized to issue triggers.

To prevent any user from using this utility to issue a trigger, you should revoke execute permission for the utility for that user.

Scheduler throttling

Throttling is used to manage performance when a large number of processes are likely to place high demands on the system. Throttling is based on scheduler groups that you set up on the **Settings > Configuration** page. You assign a throttling threshold to a group, and associate schedules with that group.

The throttling threshold is the highest number of runs associated with that group that can run concurrently. To reduce resource consumption on the server, you can set the throttling threshold to a smaller value. Only schedules created in the IBM Scheduler are subject to throttling.

Unlimited threshold in the default group

All schedules must belong to a throttling group. If you do not want to enable throttling for a schedule, make it a member of the Default scheduler group (the default selected option in the **Scheduler Group** field when you create a schedule). This group has a high throttling threshold, which effectively means that no throttling is in place.

Throttling exception

If you run a flowchart from within Campaign or by using the Campaignunica_svradm utility, these runs do not count in the throttling threshold, and they begin execution immediately.

Throttling examples

- If system resources are a concern, you can use throttling to manage the load on a server. For example, if many complex Campaign flowcharts must be run, you can assign them to a throttling group that limits the number of flowcharts that can be run at the same time. This throttling helps to manage the load on the Campaign server or the marketing database.
- You can use throttling to set priorities for schedules. By assigning high-priority schedules to a group with a high throttling threshold, you ensure that runs of these schedules are performed using system resources as efficiently as possible. You should assign lower-priority schedules to groups with lower throttling thresholds.

• If you have a flowchart that is scheduled with a recurrence pattern, you can use throttling to ensure that runs occur in sequence, without overlapping. For example, suppose you have scheduled a flowchart with a recurrence pattern set to execute a run every hour for 10 hours. If the flowchart takes more than one hour to complete a run, the next run could attempt to begin before the previous run is completed, resulting in failure because the still running flowchart would be locked. To ensure that this does not happen, you can create a throttling group with a threshold of 1, and assign the flowchart's schedule to this group.

Scheduler recurrence patterns

You can set up a schedule to run repeatedly by configuring a recurrence pattern. Any recurrence pattern you set begins after the start time you specify.

You have several recurrence pattern options.

- Pre-defined A set of common recurrence patterns from which you can select
- Cron expression A string composed of 6 or 7 fields separated by white space that represents a set of times
- Simple custom recurrence pattern A user interface for creating recurring patterns that is similar to many common meeting schedulers

All of the scheduler recurrence patterns are based on cron expressions. The Scheduler provides pre-defined patterns in the user interface for easier creation of these cron expressions. If you write your own custom cron expression, it is a good practice to provide a meaningful description of the recurrence pattern, to make it easier for anyone who is not fluent in reading these expressions to understand the pattern.

Important: All of the recurrence patterns reset at the end of the next longer interval. For example, if you set a custom weekly pattern to run every three weeks, it runs the third week of every month, because the pattern resets at the end of every month. This is a characteristic of all cron expressions. To set a schedule that actually runs on week 3, 6, 9, 12, and so on, you must create separate schedules for each desired execution date.

Run dependency

You can set up a schedule to be dependent on successful completion of one or more other scheduled runs.

For example, suppose you have a schedule, S1, that is set up with a recurrence pattern. S1 has a trigger that is sent every time an S1 run completes successfully. Three schedules, S2, S3, and S4, are configured to start when they receive the outbound trigger from S1. You can set up an additional schedule, S5, that will run when S2, S3, and S4 complete successfully. S5 will run only when all three of the runs on which it is dependent complete.

To set up a scenario like the one described in the example, you would configure S5 using the **On Completion of Other Tasks** option in the **When to Start** drop down list.

When you configure a run to be dependent on other runs in this way, you must keep in mind the following considerations.

- The schedules on which the schedule you are configuring depends must be non-recurring. In the example above, S2, S3, and S4 must be non-recurring. However, because S1 recurs, S2, S3, and S4 effectively recur, based on S1 runs.
- The schedule that is dependent on other schedules must also be non-recurring. In the example, S5 must be non-recurring. Again, because S1 recurs, S5 effectively recurs as well.
- The schedule that is dependent on other schedules cannot be used as one of the criteria in the **On Completion of Other Tasks** option for any other schedule. In the example, S5 cannot be used as a criterion in the **On Completion of Other Tasks** option for any other schedule.
- If you want to delete a schedule that is configured with the On Completion of
 Other Tasks option, you must first change the configuration to remove the On
 Completion of Other Tasks option. Then you can delete the schedule.

Time zone support

You can schedule runs to occur in the context of any one of a large number of worldwide time zones.

When you create a schedule, the default is always the time zone of the server on which the Platform is installed. However, you can select from any other time zones listed in the **Select Timezone** drop down list. These options are expressed as GMT times followed by the commonly used term for that time zone. For example, (GMT-08:00) Pitcairn Islands or (GMT-08:00) Pacific Time (US & Canada).

The selected time zone is applied to all aspects of the schedule, including the following.

- Information shown on the Scheduled Runs and Schedule Definitions pages
- Recurrence patterns and triggers

Scheduler limitations

Note the following limitations of the IBM Unica Scheduler.

- Manual starts of flowchart runs or command-line flowchart commands have no
 effect on the IBM Unica Scheduler, and vice versa with one exception. If a
 flowchart run is initiated by any means, a subsequent attempt to run the
 flowchart by any means will fail with a lock error if the previous run has not
 completed.
- Scheduler triggers do not interact in any way with Campaign flowchart triggers.
 Triggers sent by the Schedule process or by the Campaign trigger utility unica_actrg cannot cause schedules in IBM Unica Scheduler to run, and vice versa

Permissions for scheduling flowcharts

Scheduling flowcharts using the IBM Unica Scheduler requires the following permissions.

Permission	Description
Schedule Batch Flowcharts	Allows scheduling flowcharts using the default run parameters
Schedule Override Batch Flowcharts	Allows overriding the default run parameters for scheduling flowcharts

Permission	Description
Run Batch Flowcharts	Allows running flowcharts (required for scheduled flowcharts to run successfully)

Note: When a scheduled flowchart runs, it is run by the Marketing Platform user that created the scheduled task. If this user account is disabled or deleted, any flowcharts previously scheduled by that user will fail to run. If you want to deactivate this user account but allow these previously scheduled flowcharts to run, leave the user account status set to "active" with only the Run Batch Flowcharts permission granted.

Scheduler run parameters

When you schedule a Campaign flowchart, the flowchart can pass a string containing run parameters to the IBM Scheduler. This string is then passed back to Campaign when a run is started. In Campaign, all of the values set on the Override Flowchart Parameters dialog are passed to the Scheduler as a single string. This string is displayed in the Run Parameters field.

Overriding the default parameters for Campaign flowchart runs

When you schedule a Campaign flowchart run, the Scheduler uses the default run parameters that have been defined for the flowchart. These parameters include the following:

- The table catalog containing the table mappings that the flowchart uses
- Any user variables values that have been defined within the flowchart
- · Login information for any data sources that the flowchart accesses. The default is the user who is scheduling the flowchart.

Campaign allows you override these defaults to run against different data sources or to achieve different results, similar to the capabilities provided by the unica svradm utility. For example, you could schedule multiple runs for a single flowchart to test different combinations of values for user variables. You could specify an alternate table catalog to switch from your production database to a sample database for these test runs. If your organization requires different database logins for test runs and production runs, you can specify the appropriate login information.

Creating schedules

You create a schedule when you create the object you want to schedule. Currently, only Campaign flowcharts and eMessage mailings use the IBM Scheduler to schedule runs.

To create a flowchart schedule using default parameters

- 1. On a flowchart tab in View mode, click the Run icon and select Schedule This. The Schedule flowchart dialog box opens.
- 2. Complete the fields in the Schedule flowchart dialog box. If you choose to run more than once, click Set up Recurrences to set up a recurrence pattern.
- 3. Click Run with this Schedule.

Important: When you schedule a flowchart, the scheduled task is based on the flowchart name. If the flowchart name is changed after a scheduled task is created, the scheduled task will fail.

To create a flowchart schedule by overriding the default parameters

- On a flowchart tab in View mode, click the Run icon and select Schedule This

 Advanced.
 - The Override Flowchart Parameters dialog box opens.
- 2. Complete the fields in the dialog box to specify your flowchart parameters. The system does not check syntax of the parameters you enter in this field. Double-check that you have entered the correct values before proceeding.
- 3. Click Schedule a Run.
 - The Schedule flowchart dialog box appears.
- 4. Complete the fields in the Schedule flowchart dialog box.

 If you choose to run more than once, click **Set up Recurrences** to set up a recurrence pattern.
- 5. Click Run with this Schedule.

Important: When you schedule a flowchart, the scheduled task is based on the flowchart name. If the flowchart name is changed after a scheduled task is created, the scheduled task will fail.

To set up throttling

You must set up a throttling group specifically for the type of object being scheduled: a flowchart or a mailing.

- 1. On the Configuration page, navigate to one of the following throttling group templates under templates.
 - Platform > Scheduler > Schedule registrations > Campaign > [Object] > Throttling group > (Throttling group)
 - Platform > Scheduler > Schedule registrations > PredictiveInsight >
 [Object] > Throttling group > Throttling group
- 2. Create a category (throttling group) as described in "To create a new category from a template" on page 50.
 - The number you set for the Throttling threshold property is the highest number of runs associated with that group that can execute concurrently. Any schedules eligible to run that exceed the throttling threshold are queued to run in the order in which the run notification is received by the scheduler.
 - The configured scheduler groups appear in the **Scheduler Group** drop-down list in the Scheduler user interface for creating and editing schedules.
 - You must create a throttling group for each type of object whose runs you want to control in this way. For example, flowchart throttling groups are available only for scheduling flowcharts; mailing throttling groups are available only for scheduling mailings.
- 3. Assign one or more schedules to the group, as needed.

Create or edit a schedule window reference

This section describes in detail the window you use when you create or edit a schedule.

Field	Description
Scheduled Item Type	The type of the scheduled object. This field is filled automatically, and is read-only.
Scheduled Item Name	The name of the scheduled object. This field is filled automatically, and is read-only.
Schedule Name	Enter a name for the schedule.
Description	Enter a description for the schedule.
Run Parameters	When you schedule a flowchart in Campaign, all of the values set on the Override Flowchart Parameters dialog are passed to the Scheduler as a single string, displayed in the Run Parameters field. The run parameters are not used by the scheduler itself. The scheduler simply passes the string back to Campaign when the flowchart is run.
Scheduler Group	If you have created one or more throttling groups, you can associate this schedule with a group to limit the number of runs of this schedule that can execute at the same time. To appear as an option in this field, a group must be created using properties on the Configuration page.
On successful completion, send a trigger	If you want runs of this schedule to send a trigger when the run completes successfully, enter the trigger text here. Other schedules can be set to listen for this trigger.
On error, send a trigger	If you want runs of this schedule to send a trigger when the run fails, enter the trigger text here. Other schedules can be set to listen for this trigger.
Select Timnezone	Select the time zone to use when calculating the schedule, if you want a time zone that is different from the server time zone. See Time zone support for details.
When to start	Select one of the following options to specify when the schedule runs. The start time applies only to the first run; it defines the time when a schedule is first eligible to run. The actual first run might be after the start date if the schedule is configured to wait for a trigger, if it is a member of a throttling group, or if a recurrence pattern is in place.
	On a date and time - Select a date and time.
	• On a trigger - Select an existing trigger or enter a new one. If you enter a new one, you must configure a schedule to send this same string on success or failure.
	• On a trigger after a date - Select an existing trigger or enter a new one, and select a date and time. If you enter a new one, you must configure a schedule to send this same string on success or failure.
	Select one of the following options to specify the number of runs.
	Only run once - The schedule runs one time. It is eligible to execute the run on the start date and time you specify.
	• Stop after n occurrences - Runs stop after the specified number of runs have occurred (whether the runs succeed or fail) or the end date arrives, whichever is first.
	• Stop by a date and time - Runs are initiated as many times as defined until the specified end date and time is reached. A run might execute after this time if the run execution has been delayed due to throttling constraints.
	• On completion of other tasks - The schedule runs only when all the other tasks selected for this option complete successfully. See "Run dependency" on page 94.

Field	Description
Recurrence Pattern	Select one of the following options.
	Use a pre-defined recurrence pattern - Select a pattern from the list. The Marketing Platform provides a set of pre-defined patterns, and you can create your own by adding properties on the Configuration page.
	Use a simple custom recurrence pattern - Select an interval.
	Use a cron recurrence expression - Enter a valid cron expression.

Override Flowchart Parameters window reference

The following table describes the fields on the Override Flowchart Parameters dialog. All of the editable fields in this dialog are optional. The system does not check syntax of the parameters you enter in these fields. Double-check that you have entered the correct values before proceeding.

Field	Description
Flowchart Id	Unique ID for the flowchart. This field is filled automatically, and is read-only.
Campaign - Flowchart Name	The name of the campaign, campaign code, and flowchart name. This field is filled automatically, and is read-only.
Schedule Job Name	Name for the scheduled job. This field defaults to the <i>CampaignName - FlowchartName</i> , but you can change the name to any name.
Catalog File Name	Specify a stored table catalog file to use for this run.
Data Sources	Use these fields to override the default login information for any of the data sources that this flowchart accesses.

Managing schedules

You can manage all schedules from pages you can access by selecting **Settings** > **Scheduled Tasks**. You must have the Scheduler Tasks View permission in the Marketing Platform to have access to these pages. In a multi-partition environment, you see only the schedules that are created in the partition to which you belong, unless you have the PlatformAdminRole role, which allows you to see all scheduled runs across all partitions.

The schedule management pages are:

- Schedule Definitions On this page you can view all schedule definitions and edit them by clicking the schedule name in the list.
- View Scheduled Runs On this page you can view queued and completed runs of every schedule, cancel a queued run, or delete a run.

To view the schedule management pages for a single flowchart, select **View when Scheduled** from the flowchart's **Run menu**.

Scheduled items in the list are links that take you directly to the flowchart.

Scheduler management window reference

This section describes in detail the information on the scheduler management windows you access by selecting **Settings > Scheduled Tasks** or by selecting **View when Scheduled** from a flowchart's **Run** menu.

Scheduled Runs

Field	Description
Schedule Name	The schedule of which the run is an instance.
Scheduled Item	The name of the object to be run.
Item Type	The type of object to be run.
Start	Start time of the run.
Last Updated	The date and time of the most recent status update from the running flowchart or mailing process.
Run State	State of the run as defined in the Scheduler, as follows.
	Scheduled - The run has not begun.
	• Queued - The Scheduler has started the run, but the IBM Unica Marketing product has not begun executing the scheduled run due to throttling constraints.
	Running - The run has started.
	Completed - The run has completed and has returned a status of Failed or Succeeded.
	• Canceled - A user has canceled a run by clicking Mark as Cancelled on the Scheduled Runs page. If the run was queued when the user marked it as canceled, it does not execute. If the run was executing, it is marked as canceled, but this action does not stop the run.
Status	Status of the object's run as defined by the product. If the run sends a status of Cancelled, and the run is later started again and sends any other status to the scheduler, the status is updated in this field.
Details	Information about the run as provided by the product. For example, for a flowchart run, details include the flowchart name and ID, the error if the run fails, and the elapsed time if the run succeeds.

Schedule Definitions

Field	Definitions
Schedule Name	The name specified for the schedule by its creator.
Scheduled Item	The name of the object to be run.
Item Type	The type of object to be run.
Created By	Login of the user who created the schedule.
Start Trigger	The string that, if received by this schedule, initiates a run. This field is blank if no start trigger is specified.
End	Date and time of the last run of this schedule.
Recurrence Pattern	The descriptive name of the recurrence pattern.
On Success Trigger	The string that is sent if the product reports that a run of this schedule has completed successfully. This field is blank if no on success trigger is specified.
On Failure Trigger	The string that is sent if the product reports that a run of this schedule has failed. This field is blank if no on failure trigger is specified.

Chapter 9. Enabling single sign-on between IBM Unica Marketing and IBM Coremetrics Web Analytics

If your organization uses IBM Coremetrics Web Analytics, you can enable single sign-on between IBM Coremetrics and IBM Unica Marketing. Single sign-on allows users to navigate to IBM Coremetrics reports from within the IBM Unica Marketing user interface without being prompted to log in.

Also, if IBM Coremetrics reports are referenced in IBM Unica Marketing dashboards, single sign-on allows users to view these reports (if they have access to them in IBM Coremetrics).

Two options for enabling single sign-on between IBM Unica Marketing and IBM Coremetrics Web Analytics

You can choose between two options for enabling single sign-on.

- You can configure IBM Coremetrics to automatically create an IBM Coremetrics user account the first time an IBM Unica Marketing user navigates to IBM Coremetrics.
 - You might want to choose this option if you want all of your IBM Unica Marketing users to have single sign-on with IBM Coremetrics.
 - See "To set up single sign-on between IBM Unica Marketing and IBM Coremetrics using automatic user account creation" on page 102.
- You can configure IBM Unica Marketing user accounts for single sign-on by adding each user's existing IBM Coremetrics login name to his or her detail page in IBM Unica Marketing.
 - When you choose this option, users who require access to IBM Coremetrics must have an IBM Coremetrics account.
 - You might want to choose this option if you want a subset of your IBM Unica Marketing users to have single sign-on with IBM Coremetrics.
 - See "To set up single sign-on between IBM Unica Marketing and IBM Coremetrics using manual user account creation" on page 103 for details.

Permissions in IBM Coremetrics for single sign-on users

When the automatic account creation option is **not** selected in IBM Coremetrics, single sign-on users have the permissions in IBM Coremetrics that they would have if they log in to IBM Coremetrics directly.

When the automatic account creation option is selected in IBM Coremetrics, single sign-on users have permissions in IBM Coremetrics as follows.

- By default, users have the permissions granted to the IBM Coremetrics group the administrator has configured for all automatically created users.
 Administrators can modify the permissions associated with this group.
- In addition, the administrator can override automatic account creation for users who already have a IBM Coremetrics account. If the override is in place for a user, that user has the permissions he or she would have when he or she logs in to IBM Coremetrics directly.

See "To set up single sign-on between IBM Unica Marketing and IBM Coremetrics using automatic user account creation" on page 102 for details.

Server clock coordination

The clock on the server on which the Marketing Platform is deployed must match the time on the IBM Coremetrics server clock. For single sign-on, the IBM Coremetrics server allows for up to 15 minutes of difference (900 seconds) between server clock times.

As a best practice, you should synchronize server clocks. To ensure synchronization, you should use the Network Time Protocol (NTP).

If you cannot synchronize your server clock, and there might be at least 15 minutes of difference between the clocks, you can set the Clock skew adjustment (seconds) configuration property under the Coremetrics category in Marketing Platform to a number that reflects the difference between the clocks.

To set up single sign-on between IBM Unica Marketing and IBM Coremetrics using automatic user account creation

- 1. Determine the IBM Coremetrics Client ID you want to use for single sign-on between IBM Unica Marketing and IBM Coremetrics.
 - Make a note of the Client ID, as you will need it in a later step.
- 2. Log in to IBM Coremetrics as an Admin user with access to the Client ID you selected in the previous step, click the Admin link, and navigate to the Global User Authentication page.
 - In the IBM Enterprise Marketing Management Shared Secret field, enter a string that conforms to the rules stated in the instructions next to the field. Make a note of this string, as you will need it in a later step.
 - Under Automatic User Account Creation, click **Enabled**.
 - Select a user group to which you want all automatically created users to belong.

This group should have at least the following Web Analytics permissions.

- Dashboards > View Standard Dashboards
- Reports > Site Metrics
- Reports > Insights
- 3. Log in to IBM Unica Marketing as an Admin user and navigate to the Settings > Users page.
- 4. Select or create a user and configure a data source for this user as follows.
 - Data Source Enter a name.
 - Data Source Login Enter the Client ID you noted in step 1.
 - Data Source Password Enter the Shared Secret you noted in step 2.

If you have multiple partitions, you must perform this task in every partition where you have users who should have single sign-on.

Alternatively, you can use the platform_admin user account for this step. Because this user is a member of all partitions, the data source is available in all partitions.

- 5. In the Marketing Platform, navigate to the Settings > User Groups page and do the following.
 - Create a new group and add the CMUser role to that group.
 - Make each user who should have single sign-on a member of that group.

If you have multiple partitions, you must perform this task in every partition where you have users who should have single sign-on.

6. In the Marketing Platform, navigate to the **Settings > Configuration** page and set configuration properties as follows.

Property	Value
Coremetrics Enable Coremetrics Analytics	True
Coremetrics Integration partitions partition[n] Platform user for Coremetrics account	Enter the login name for the Marketing Platform user account that you used in step 4.
Coremetrics Integration partitions partition[n] Datasource for Coremetrics account	Enter the name of the data source you created in step 4.

If you have multiple partitions, you must use the **Coremetrics | Integration | partitionTemplate** to create a set of configuration properties for every partition where you have users who should have single sign-on.

The name of the category you create with the template must exactly match the name of the corresponding Campaign partition.

- 7. For any user for whom you want to override automatic account creation, do the following.
 - In the Marketing Platform, navigate to the **Settings** > **Users** page.
 - Enter the user's IBM Coremetrics login name in the **Coremetrics Username** field on the user's detail page.

This works only for users who already have an IBM Coremetrics account.

Note: If an account does not exist in IBM Coremetrics with this login name, an account will be created for this user with the name you enter here, rather than with the user's Marketing Platform login name.

8. Perform the procedure described in "To configure your web application server for single sign-on between IBM Coremetrics and IBM Unica Marketing" on page 104.

To set up single sign-on between IBM Unica Marketing and IBM Coremetrics using manual user account creation

- 1. Determine the IBM Coremetrics Client ID you want to use for single sign-on between IBM Unica Marketing and IBM Coremetrics.
 - Make a note of the Client ID, as you will need it in a later step.
- 2. Log in to IBM Coremetrics as an Admin user with access to the Client ID you selected in the previous step, click the Admin link, and navigate to the Global User Authentication page.
 - In the **IBM Enterprise Marketing Management Shared Secret** field, enter a string that conforms to the rules stated in the instructions next to the field. Make a note of this string, as you will need it in a later step.
 - Under Automatic User Account Creation, click **Disabled**.
- 3. Log in to IBM Unica Marketing as an Admin user and navigate to the **Settings** > **Users** page.
- 4. Select or create a user and configure a data source for this user as follows.
 - Data Source Enter a name.

- Data Source Login Enter the Client ID you noted in step 1.
- Data Source Password Enter the Shared Secret you noted in step 2.

If you have multiple partitions, you must perform this task in every partition where you have users who should have single sign-on.

Alternatively, you can use the platform_admin user account for this step. Because this user is a member of all partitions, the data source is available in all partitions.

- 5. In the Marketing Platform, navigate to the **Settings > User Groups** page and do the following.
 - Create a new group and add the CMUser role to that group.
 - Make each user who should have single sign-on a member of that group. If you have multiple partitions, you must perform this task in every partition where you have users who should have single sign-on.
- 6. In the Marketing Platform, navigate to the **Settings > Configuration** page and set configuration properties as follows.

Property	Value
Coremetrics Enable Coremetrics Analytics	True
Coremetrics Integration partitions partition[n] Platform user for Coremetrics account	Enter the login name for the Marketing Platform user account that you used in step 4.
Coremetrics Integration partitions partition[n] Datasource for Coremetrics account	Enter the name of the data source you created in step 4.

If you have multiple partitions, you must use the **Coremetrics | Integration | partitions | partitionTemplate** to create a set of configuration properties for every partition where you have users who should have single sign-on.

The name of the category you create with the template must exactly match the name of the corresponding Campaign partition.

- 7. In the Marketing Platform, navigate to the **Settings > Users** page.
- 8. For each user for whom you want to enable single sign-on, enter that user's IBM Coremetrics login name in the **Coremetrics Username** field on the user's detail page.

Note: If a user has exactly the same login names in both IBM Unica Marketing and IBM Coremetrics, you do not have to perform this step.

9. Perform the procedure described in "To configure your web application server for single sign-on between IBM Coremetrics and IBM Unica Marketing."

To configure your web application server for single sign-on between IBM Coremetrics and IBM Unica Marketing

Perform the appropriate procedure below in the web application server where the Marketing Platform is deployed to ensure that users can view IBM Coremetrics reports in dashboards without having to log in.

WebLogic configuration for single sign-on

Edit the setDomainEnv script, located in the bin directory under your WebLogic domain directory, as follows.

Add the following to JAVA_OPTIONS.

-Dweblogic.security.SSL.ignoreHostnameVerification=true

WebSphere configuration for single sign-on

- 1. Log in to the WebSphere administrative console.
- 2. Expand Security and click SSL certificate and key management.
- 3. Under Configuration settings, click Manage endpoint security configurations.
- 4. Navigate to the outbound configuration for the cell and node where the Marketing Platform is deployed..
- 5. Under Related Items, click Key stores and certificates and click the NodeDefaultTrustStore key store.
- 6. Under Additional Properties, click Signer certificates and Retrieve From Port.
- 7. Complete fields as follows.
 - Host name: welcome.coremetrics.com
 - Port: 443
 - Alias: coremetrics cert

Chapter 10. Integrating with Windows Active Directory

The Marketing Platform can be configured to integrate with an LDAP (Lightweight Directory Access Protocol) or Windows Active Directory server.

By integrating IBM Unica Marketing with a directory server, you can maintain users and groups in one centralized location. Integration provides a flexible model for extending the enterprise authorization policies into IBM Unica Marketing applications. Integration reduces errors, support costs, and the time needed to deploy an application in production.

See the *Recommended Software Environments and Minimum System Requirements* document for a list of supported directory servers.

Active Directory integration features

Marketing Platform integration with Windows Active Directory provides the features described in this section.

Authentication with Active Directory integration

IBM Unica Marketing applications query the Marketing Platform for user authorization information. When Active Directory server integration is implemented and Windows integrated login is enabled, users are authenticated to all IBM Unica Marketing applications when they log in to the corporate network, and no password is required to log in to IBM Unica Marketing applications. User authentication is based on their Windows login, bypassing the applications' login screens.

If Windows integrated login is not enabled, users must still log in on the IBM Unica Marketing login screen, using their Windows credentials.

About internal and external users

When Windows integrated login is enabled, all users are created and maintained in the Active Directory server. (You do not have the option of creating some users in the Marketing Platform, which are known as internal users in this guide). If you require the ability to create internal users, do not enable Windows integrated login.

If you prefer not to enable Windows integrated login, follow the directions for integrating with an LDAP server. See "Configuration process checklist (LDAP integration)" on page 119 for details.

Importing users based on groups or attributes

IBM Unica Marketing imports groups and their users from the directory server database through a periodic synchronization task that automatically retrieves information from the directory server. When IBM Unica Marketing imports users and groups from the server database, group memberships are maintained.

You can assign IBM Unica Marketing privileges by mapping an Active Directory group to an IBM Unica Marketing group. This mapping allows any new users

added to the mapped Active Directory group to assume the privileges set for the corresponding IBM Unica Marketing group.

A subgroup in the Marketing Platform inherits the roles, but not the LDAP mappings or user memberships, assigned to its parents.

If you do not want to create groups in your Active Directory server that are specific to IBM Unica Marketing products, you have the option to control the users who are imported by specifying attributes. To achieve this, you would do the following during the LDAP configuration process.

- 1. Determine the string used in your Active Directory server for the attributes on which you want to filter.
- 2. Set the **LDAP** user reference attribute name property to DN.

 This indicates to the Marketing Platform that the synchronization is not based on a group with member references but is based on an Org Unit or an Org.
- 3. When you configure the **LDAP reference map** property, set the Filter portion of the value to the attribute on which you want to search. For the Filter, use the string you determined in step 1.

In the remainder of this chapter, where appropriate, instructions are provided for attribute based synchronization.

You must choose between group based synchronization or attribute based synchronization; both methods are not supported simultaneously.

When you use attribute based synchronization, the periodic synchronization is always a full synchronization, instead of a partial synchronization, which is done for group based synchronization. For attribute based synchronization, you should set the **LDAP sync interval** property to a high value, or set it to 0 to turn off automatic synchronization and rely on manual full synchronization when users are added to the directory.

About LDAP and partitions

In multi-partition environments, user partition membership is determined by the group to which the user belongs, when that group is assigned to a partition. A user can belong to only one partition. Therefore, if a user is a member of more than one LDAP group, and these groups are mapped to IBM Unica Marketing groups that are assigned to different partitions, the system must choose a single partition for that user.

You should try to avoid this situation. However, if it occurs, the partition of the IBM Unica Marketing group most recently mapped to an LDAP group is the one that the user belongs to. To determine which LDAP group was most recently mapped, look at the LDAP group mappings displayed in the Configuration area. They are displayed in chronological order, with the most recent mapping listed last.

Synchronization

When IBM Unica Marketing is configured to integrate with an Active Directory server, users and groups are synchronized automatically at pre-defined intervals. During these automatic synchronizations, only those users and groups (specified by the configuration) that were created or changed since the last synchronization are brought into IBM Unica Marketing. You can force a synchronization of all users

and groups by using the Synchronize function in the Users area of IBM Unica Marketing.

Active Directory integration prerequisites

To take advantage of the Windows Active Directory integration features, IBM Unica Marketing applications must be installed on a supported operating system.

In addition, to implement Windows integrated login, users accessing IBM Unica Marketing applications must:

- Use a system running a supported Windows operating system.
- Use a supported browser. If Windows integrated login is enabled, the browser must support NTLM authorization.
- Log in as a member of the Windows Active Directory domain against which IBM Unica Marketing is authenticating.

How to integrate IBM Unica Marketing with Windows Active Directory

Topics in this section describe how to integrate IBM Unica Marketing with Windows Active Directory.

Configuration process checklist (Active Directory integration)

Integrating IBM Unica Marketing with Windows Active Directory is a multi-step process. The following procedure provides an overview of the process, which is described in detail elsewhere in this guide.

- "Obtain required information" on page 110
 Obtain information about your Windows Active Directory server, which is needed for integration with IBM Unica Marketing.
- 2. "Plan group membership and mapping" on page 111

 If you are using group based synchronization, identify or create the groups in the Marketing Platform to which you will map your Active Directory groups.
- 3. "Store directory server credentials in the Marketing Platform" on page 111 If your directory server does not allow anonymous access (the most common configuration), configure an IBM Unica Marketing user account to hold a directory server administrator user name and password.
- 4. "Configure integration in IBM Unica Marketing" on page 112

 Configure the Marketing Platform for integration by setting values on the Configuration page.
- 5. "Test synchronization" on page 114

 Verify that users are imported as expected, and if you are using group based synchronization, verify that users and groups are synchronizing properly.
- 6. "Set up an Active Directory user with PlatformAdminRole permissions" on page 114
 - Set up administrator access to the Marketing Platform, required when Windows integrated login is enabled.
- 7. "Set security mode to Windows Integrated Login" on page 115 Set the security mode values on the Configuration page.
- 8. "Assign roles to mapped groups" on page 115

 If you are using group based synchronization, implement your planned group application access.

- 9. "Restart the web application server" on page 115

 This step is required to ensure that all of your changes are applied.
- "Test login as an Active Directory user" on page 115
 Verify that you can log in to IBM Unica Marketing as an Active Directory user.

Obtain required information

Obtain the following information about the directory server with which you want to integrate.

- Identify a user who has search permissions on the directory server, and gather the following information about the user.
 - login name
 - password
 - Distinguished Name (DN). For additional information , see "About Distinguished Names" on page 111.
- Obtain the following for the directory server.
 - Fully qualified host name or IP address
 - The port on which server listens
- Determine the string that your directory server uses for the user attribute in the Group object. Typically, this value is uniquemember in LDAP servers and member in Windows Active Directory servers. You should verify this on your directory server.
- Obtain the following required user attributes.
 - Determine the string that your directory server uses for the user login attribute. This string is always required. Typically, this value is uid in LDAP servers and sAMAccountName in Windows Active Directory servers. Verify this string on your directory server.
 - Determine the string that your directory server uses for the alternate login attribute, which is required only when Campaign is installed in a UNIX environment.
- If you are using attribute based synchronization, obtain the strings used for the attributes (one or more) that you want to use for this purpose.
- If you want the Marketing Platform to import additional (optional) user attributes stored in your directory server, determine the strings that your directory server uses for the following.
 - First name
 - Last name
 - User title
 - Department
 - Company
 - Country
 - User email
 - Address 1
 - Work phone
 - Mobile phone
 - Home phone

About Distinguished Names

To enable directory server integration in IBM Unica Marketing, you must determine the distinguished name (DN) for a user and for groups. Directory server DNs are the complete path through the hierarchical tree structure to a specific object. DNs are made up of these components:

- Organizational Unit (OU). This attribute is used to divide a namespace based on organizational structure. An OU is usually associated with a user-created directory server container or folder.
- Common Name (CN). This attribute represents the object itself within the directory service.
- Domain Component (DC). A distinguished name that uses DC attributes has one DC for every domain level below root. In other words, there is a DC attribute for every item separated by a dot in the domain name.

Use your directory server's Administration console to determine an object's Distinguished Name.

Plan group membership and mapping

This information apples only when you are using group based synchronization (not attribute based synchronization).

When you plan how to map your directory server groups to Marketing Platform groups, use the following guidelines.

•

Identify or create the directory server groups whose members you want to import into the Marketing Platform. When these groups are mapped to Marketing Platform groups, members of these groups are automatically created as IBM Unica Marketing users.

Members of your directory server's subgroups are not imported automatically. To import users from subgroups, you must map the subgroups to Marketing Platform groups or subgroups.

You must map only static directory server groups; dynamic or virtual groups are not supported.

•

Identify or create the groups in the Marketing Platform to which you will map directory server groups.

Store directory server credentials in the Marketing Platform

If your directory server does not allow anonymous access, you must configure an IBM Unica Marketing user account to hold a directory user name and password, as described in the following procedure.

- 1. Log in to IBM Unica Marketing as a user with Admin access.
- 2. Select or create an IBM Unica Marketing user account to hold the directory server credentials of an LDAP user with read access over all of the user and group information in the LDAP server. Follow these guidelines.
 - In a later step, you will set the value of the Unica user for LDAP credentials configuration property to the user name for this IBM Unica Marketing user account. The default value of this property is asm_admin, a user that exists in every new Marketing Platform installation. You can use the asm_adminaccount to hold the directory server credentials.

- · The user name of this IBM Unica Marketing user account must not match the user name of any directory server user.
- 3. Add a data source for this IBM Unica Marketing user account, following these guidelines.

Field	Guideline
Data Source Name	You can enter any name, but note that in a later step, the value of the Data source for LDAP credentials property must match this data source name. Name your data source LDAPServer to match this default value.
Data Source Login	Enter the Distinguished Name (DN) of the administrative user with read access over all of the directory server user and group information that will be synchronized with IBM Unica Marketing. The DN resembles the following: uidcn=user1,ou=someGroup,dc=systemName,dc=com
Data Source Password	Enter the password of the administrative user with search permission on the directory server.

Configure integration in IBM Unica Marketing

Edit the directory server configuration properties on the Configuration page, using the information you gathered in "Obtain required information" on page 110.

You must perform all of the following procedures.

To set connection properties

- 1. Click **Settings** > **Configuration** and navigate to the **Unica** | **Platform** | **Security** | **Login method details** | **LDAP** category.
- 2. Set values of the following configuration properties.

See each property's context help for information about how to set the values.

- LDAP server host name
- LDAP server port
- User search filter
- · Use credentials stored in Unica
- · Unica user for LDAP credentials
- Data source for LDAP credentials
- Base DN
- Require SSL for LDAP connection

To set LDAP synchronization properties

- 1. Click Settings > Configuration and navigate to the Unica | Platform | **Security** | **LDAP Synchronization** category.
- 2. Set values of the following configuration properties in the LDAP properties

See each property's context help for information about how to set the values.

- · LDAP sync enabled
- LDAP sync interval
- · LDAP sync delay
- LDAP sync timeout

- LDAP sync scope
- LDAP provider URL
- Require SSL for LDAP connection
- LDAP config Unica group delimiter
- LDAP reference config delimiter
- \bullet Unica user for LDAP credentials
- Data source for LDAP credentials
- LDAP user reference attribute name

To set user attributes map properties

- 1. Click **Settings > Configuration** and navigate to the **Unica | Platform | Security | LDAP Synchronization** category.
- 2. Set values in the **User attributes map** section to map the listed IBM Unica Marketing user attributes to the user attributes in your directory server.

If you are using group based synchronization, the only property you are required to map is User login. Typically, this value is uid in LDAP servers and sAMAccountName in Windows Active Directory servers. Use the value you verified in the earlier step, "Obtain required information."

If you are using attribute based synchronization, map the attributes on which you want to search.

Note the following.

- The properties that you map here are replaced for the imported users each time the Marketing Platform synchronizes with your directory server.
- The Marketing Platform requires that email addresses conform to the definition stated in RFC 821. If the email addresses on your directory server do not conform to this standard, do not map them as attributes to be imported.
- If your directory server database allows an attribute to have more characters than is allowed in the Marketing Platform system tables, as shown in the following table, the attribute value is truncated to fit.

Attribute	Allowed length
User login (required)	256
First name	128
Last name	128
User title	128
Department	128
Company	128
Country	128
User email	128
Address 1	128
Work phone	20
Mobile phone	20
Home phone	20
Alternate login (required on UNIX)	256

To map LDAP groups to IBM Unica groups

Users who belong to the directory server groups you map here are imported and made members of the Marketing Platform group or groups specified here.

Note: Do not map any of the groups that have the asm admin user as a member.

- 1. Click **Settings** > **Configuration** and navigate to the **Unica** | **Platform** | Security | Login method details | LDAP Synchronization | LDAP reference to Unica group map category.
- 2. For each directory server group you want to map to a Marketing Platform group, create an LDAP reference to Unica group category by selecting the (LDAP reference to Unica group map) template. Set the following properties.
 - New category name
 - LDAP reference map
 - · Unica group

For example, the following values map the LDAP UnicaUsers group to the Marketing PlatformamUsers and campaignUsers groups (FILTER is omitted).

- LDAP reference: cn=UnicaUsers,cn=Users, dc=myCompany,dc=com
- Unica group: amUsers; campaignUsers

Test synchronization

Test your configuration by logging in to IBM Unica Marketing as an IBM Unica Marketing user (not a directory server user), forcing synchronization, and checking the following.

Verify that users are imported as expected

If you are using group based synchronization, verify that Marketing Platform group memberships match the expected mapping to directory server groups.

To force synchronization of external users

- 1. Log in to IBM Unica Marketing and click **Settings > Users**.
- 2. Click Synchronize.

Users and groups are synchronized.

Set up an Active Directory user with PlatformAdminRole permissions

When Windows integrated login is enabled, you can not log in to IBM Unica Marketing as platform admin, so you must perform the following procedure in order to have administrator access to the Marketing Platform.

- 1. Log in to IBM Unica Marketing as an internal user (a user created in the Marketing Platform rather than a user imported from Active Directory). This must be a user with PlatformAdminRole permissions in the Marketing
- 2. Create a Marketing Platform group and assign the PlatformAdminRole role to
- 3. Ensure that at least one Windows Active Directory user is a member of this group.

Set security mode to Windows Integrated Login

Set security mode properties as described in the following procedure. This allows Active Directory users to access IBM Unica Marketing applications based on their Windows login, bypassing the IBM Unica Marketing login screen.

- 1. Click Settings > Configuration and, navigate to Unica | Platform | Security.
- 2. Set the value of the Login method property to Windows Integrated Login.
- 3. Navigate to Unica | Platform | Security | Login method details | Windows integrated login and set the values of the following properties.
 - Domain
 - Client Timeout
 - · Cache Policy
 - Domain Controller
 - IP of the WINS server
 - Strip Domain
 - · Retry on Authentication Failure

Assign roles to mapped groups

If you are using group based synchronization, log in to IBM Unica Marketing and assign roles to mapped groups as planned.

Restart the web application server

Restart the web application server to ensure that all of your configuration changes are applied.

Configure browsers

Perform this task in every instance of Internet Explorer that is used to access IBM Unica Marketing. This is required with Windows integrated login, to prevent users from being presented with the IBM Unica Marketing login screen.

In Internet Explorer, configure Internet Options as follows.

- Select Tools > Internet Options.
- On the Security tab, click **Custom Level**.
- In the **User Authentication** section, select **Automatic logon with current user** name and password.

See the following links for additional information that can help you to troubleshoot browser-related login problems with Windows integrated login.

- http://support.microsoft.com/default.aspx?scid=kb;en-us;Q258063
- http://support.microsoft.com/default.aspx?scid=kb;en-us;Q174360
- http://support.microsoft.com/default.aspx?scid=kb;en-us;Q303650

Test login as an Active Directory user

- 1. Log in to Windows as an Active Directory user who is a member of an Active Directory group mapped to a Marketing Platform group that has been assigned a role in the Marketing Platform.
- 2. Point your browser to the IBM Unica Marketing URL.

You should not see the IBM Unica Marketing login screen, and you should be allowed to access the IBM Unica Marketing user interface. If you cannot log in, see "The restoreAccess utility" on page 196.

Chapter 11. Integrating with an LDAP server

The Marketing Platform can be configured to integrate with an LDAP (Lightweight Directory Access Protocol) or Windows Active Directory server.

By integrating IBM Unica Marketing with a directory server, you can maintain users and groups in one centralized location. Integration provides a flexible model for extending the enterprise authorization policies into IBM Unica Marketing applications. Integration reduces errors, support costs, and the time needed to deploy an application in production.

See the *Recommended Software Environments and Minimum System Requirements* document for a list of supported directory servers.

LDAP integration features

IBM Unica Marketing integration with LDAP provides the features described in this section.

Authentication with LDAP integration

IBM Unica Marketing applications query the Marketing Platform for user authorization information. When LDAP integration is implemented, users enter their valid LDAP user name and password for authentication to IBM Unica Marketing applications.

Importing users based on groups or attributes

The Marketing Platform imports groups and their users from the directory server database through a periodic synchronization task that automatically retrieves information from the directory server. When Marketing Platform imports users and groups from the server database, group memberships are maintained.

You can assign IBM Unica Marketing privileges by mapping an LDAP group to an IBM Unica Marketing group. This mapping allows any new users added to the mapped LDAP group to assume the privileges set for the corresponding IBM Unica Marketing group.

A subgroup inherits the roles, but not the LDAP mappings or user membership, assigned to its parents.

If you do not want to create groups in your LDAP server that are specific to IBM Unica Marketing products, you have the option to control the users who are imported by specifying attributes. To achieve this, you would do the following during the LDAP configuration process.

- 1. Determine the string used in your LDAP/Active Directory server for the attributes on which you want to filter.
- 2. Set the **LDAP** user reference attribute name property to DN.

 This indicates to the Marketing Platform that the synchronization is not based on a group with member references but is based on an Org Unit or an Org.

3. When you configure the LDAP reference map property, set the Filter portion of the value to the attribute on which you want to search. For the Filter, use the string you determined in step 1.

In the remainder of this chapter, where appropriate, instructions are provided for attribute based synchronization.

You must choose between group based synchronization or attribute based synchronization; both methods are not supported simultaneously.

When you use attribute based synchronization, the periodic synchronization is always a full synchronization, instead of a partial synchronization, which is done for group based synchronization. For attribute based synchronization, you should set the LDAP sync interval property to a high value, or set it to 0 to turn off automatic synchronization and rely on manual full synchronization when users are added to the directory.

About LDAP and partitions

In multi-partition environments, user partition membership is determined by the group to which the user belongs, when that group is assigned to a partition. A user can belong to only one partition. Therefore, if a user is a member of more than one LDAP group, and these groups are mapped to IBM Unica Marketing groups that are assigned to different partitions, the system must choose a single partition for that user.

You should try to avoid this situation. However, if it occurs, the partition of the IBM Unica Marketing group most recently mapped to an LDAP group is the one that the user belongs to. To determine which LDAP group was most recently mapped, look at the LDAP group mappings displayed in the Configuration area. They are displayed in chronological order, with the most recent mapping listed last.

Support for internal and external users

IBM Unica Marketing supports two types of user accounts and groups.

- Internal User accounts and groups that are created within IBM Unica Marketing using the IBM Unica Marketing security user interface. These users are authenticated through Marketing Platform.
- External User accounts and groups that are imported into IBM Unica Marketing through synchronization with a supported LDAP server. This synchronization occurs only if IBM Unica Marketing has been configured to integrate with the LDAP server. These users are authenticated through the LDAP server.

You may want to have both types of users and groups if, for example, you want to give your customers access to IBM Unica Marketing applications without adding them to your LDAP server as full corporate users.

Using this hybrid authentication model requires more maintenance than a pure LDAP authentication model does.

Synchronization

When IBM Unica Marketing is configured to integrate with an LDAP server, users and groups are synchronized automatically at pre-defined intervals.

During these automatic synchronizations, only those users and groups (specified by the configuration) that were created or changed since the last synchronization are brought into IBM Unica Marketing. You can force a synchronization of all users and groups by using the Synchronize function in the Users area of IBM Unica Marketing.

LDAP integration prerequisites

In order to take advantage of the LDAP integration features, IBM Unica Marketing applications must be installed on a supported operating system.

How to integrate IBM Unica Marketing with an LDAP server

Topics in this section describe how to integrate IBM Unica Marketing with an LDAP server.

Configuration process checklist (LDAP integration)

Integrating IBM Unica Marketing with LDAP is a multi-step process. The following procedure provides an overview of the process, which is described in detail elsewhere in this guide.

- 1. "Obtain required information" on page 110 Obtain information about your LDAP server, which is needed for integration with IBM Unica Marketing.
- "Plan group membership and mapping" on page 111 If you are using group based synchronization, identify or create the groups in the Marketing Platform to which you will map your LDAP groups.
- "Store directory server credentials in the Marketing Platform" on page 111 If your directory server does not allow anonymous access (the most common configuration), configure an IBM Unica Marketing user account to hold a directory server administrator user name and password.
- "Configure integration in IBM Unica Marketing" on page 112 Configure the Marketing Platform for integration by setting values on the Configuration page.
- "Test synchronization" on page 114 Verify that users are imported as expected, and if you are using group based synchronization, verify that users and groups are synchronizing properly.
- "Set security mode to LDAP" on page 124 Set the security mode values in the Configuration page.
- 7. "Assign roles to mapped groups" on page 115 If you are using group based synchronization, implement your planned group application access.
- 8. "Restart the web application server" on page 115 This step is required to ensure that all of your changes are applied.
- 9. "Test login as an LDAP user" on page 125 Verify that you can log in to IBM Unica Marketing as an LDAP user.

Obtain required information

Obtain the following information about the directory server with which you want to integrate.

- Identify a user who has search permissions on the directory server, and gather the following information about the user.
 - login name
 - password
 - Distinguished Name (DN). For additional information , see "About Distinguished Names" on page 111.
- Obtain the following for the directory server.
 - Fully qualified host name or IP address
 - The port on which server listens
- Determine the string that your directory server uses for the user attribute in the Group object. Typically, this value is uniquemember in LDAP servers and member in Windows Active Directory servers. You should verify this on your directory server.
- Obtain the following required user attributes.
 - Determine the string that your directory server uses for the user login attribute. This string is always required. Typically, this value is uid in LDAP servers and sAMAccountName in Windows Active Directory servers. Verify this string on your directory server.
 - Determine the string that your directory server uses for the alternate login attribute, which is required only when Campaign is installed in a UNIX environment.
- If you are using attribute based synchronization, obtain the strings used for the attributes (one or more) that you want to use for this purpose.
- If you want the Marketing Platform to import additional (optional) user attributes stored in your directory server, determine the strings that your directory server uses for the following.
 - First name
 - Last name
 - User title
 - Department
 - Company
 - Country
 - User email
 - Address 1
 - Work phone
 - Mobile phone
 - Home phone

About Distinguished Names

To enable directory server integration in IBM Unica Marketing, you must determine the distinguished name (DN) for a user and for groups. Directory server DNs are the complete path through the hierarchical tree structure to a specific object. DNs are made up of these components:

- · Organizational Unit (OU). This attribute is used to divide a namespace based on organizational structure. An OU is usually associated with a user-created directory server container or folder.
- Common Name (CN). This attribute represents the object itself within the directory service.
- Domain Component (DC). A distinguished name that uses DC attributes has one DC for every domain level below root. In other words, there is a DC attribute for every item separated by a dot in the domain name.

Use your directory server's Administration console to determine an object's Distinguished Name.

Plan group membership and mapping

This information apples only when you are using group based synchronization (not attribute based synchronization).

When you plan how to map your directory server groups to Marketing Platform groups, use the following guidelines.

Identify or create the directory server groups whose members you want to import into the Marketing Platform. When these groups are mapped to Marketing Platform groups, members of these groups are automatically created as IBM Unica Marketing users.

Members of your directory server's subgroups are not imported automatically. To import users from subgroups, you must map the subgroups to Marketing Platform groups or subgroups.

You must map only static directory server groups; dynamic or virtual groups are not supported.

Identify or create the groups in the Marketing Platform to which you will map directory server groups.

Store directory server credentials in the Marketing Platform

If your directory server does not allow anonymous access, you must configure an IBM Unica Marketing user account to hold a directory user name and password, as described in the following procedure.

- 1. Log in to IBM Unica Marketing as a user with Admin access.
- 2. Select or create an IBM Unica Marketing user account to hold the directory server credentials of an LDAP user with read access over all of the user and group information in the LDAP server. Follow these guidelines.
 - In a later step, you will set the value of the Unica user for LDAP credentials configuration property to the user name for this IBM Unica Marketing user account. The default value of this property is asm admin, a user that exists in every new Marketing Platform installation. You can use the asm adminaccount to hold the directory server credentials.
 - The user name of this IBM Unica Marketing user account must not match the user name of any directory server user.
- 3. Add a data source for this IBM Unica Marketing user account, following these guidelines.

Field	Guideline
Data Source Name	You can enter any name, but note that in a later step, the value of the Data source for LDAP credentials property must match this data source name. Name your data source LDAPServer to match this default value.
Data Source Login	Enter the Distinguished Name (DN) of the administrative user with read access over all of the directory server user and group information that will be synchronized with IBM Unica Marketing. The DN resembles the following: uidcn=user1,ou=someGroup,dc=systemName,dc=com
Data Source Password	Enter the password of the administrative user with search permission on the directory server.

Configure integration in IBM Unica Marketing

Edit the directory server configuration properties on the Configuration page, using the information you gathered in "Obtain required information" on page 110.

You must perform all of the following procedures.

To set connection properties

- 1. Click **Settings > Configuration** and navigate to the **Unica | Platform |** Security | Login method details | LDAP category.
- 2. Set values of the following configuration properties.

See each property's context help for information about how to set the values.

- LDAP server host name
- · LDAP server port
- User search filter
- Use credentials stored in Unica
- Unica user for LDAP credentials
- Data source for LDAP credentials
- Base DN
- Require SSL for LDAP connection

To set LDAP synchronization properties

- 1. Click Settings > Configuration and navigate to the Unica | Platform | **Security** | **LDAP Synchronization** category.
- 2. Set values of the following configuration properties in the LDAP properties

See each property's context help for information about how to set the values.

- · LDAP sync enabled
- LDAP sync interval
- · LDAP sync delay
- LDAP sync timeout
- LDAP sync scope
- LDAP provider URL
- Require SSL for LDAP connection
- · LDAP config Unica group delimiter

- LDAP reference config delimiter
- Unica user for LDAP credentials
- Data source for LDAP credentials
- LDAP user reference attribute name

To set user attributes map properties

- 1. Click Settings > Configuration and navigate to the Unica | Platform | **Security** | **LDAP Synchronization** category.
- 2. Set values in the **User attributes map** section to map the listed IBM Unica Marketing user attributes to the user attributes in your directory server.

If you are using group based synchronization, the only property you are required to map is User login. Typically, this value is uid in LDAP servers and sAMAccountName in Windows Active Directory servers. Use the value you verified in the earlier step, "Obtain required information."

If you are using attribute based synchronization, map the attributes on which you want to search.

Note the following.

- The properties that you map here are replaced for the imported users each time the Marketing Platform synchronizes with your directory server.
- The Marketing Platform requires that email addresses conform to the definition stated in RFC 821. If the email addresses on your directory server do not conform to this standard, do not map them as attributes to be imported.
- If your directory server database allows an attribute to have more characters than is allowed in the Marketing Platform system tables, as shown in the following table, the attribute value is truncated to fit.

Attribute	Allowed length
User login (required)	256
First name	128
Last name	128
User title	128
Department	128
Company	128
Country	128
User email	128
Address 1	128
Work phone	20
Mobile phone	20
Home phone	20
Alternate login (required on UNIX)	256

To map LDAP groups to IBM Unica groups

Users who belong to the directory server groups you map here are imported and made members of the Marketing Platform group or groups specified here.

Note: Do not map any of the groups that have the asm admin user as a member.

- 1. Click **Settings > Configuration** and navigate to the **Unica | Platform |** Security | Login method details | LDAP Synchronization | LDAP reference to Unica group map category.
- 2. For each directory server group you want to map to a Marketing Platform group, create an LDAP reference to Unica group category by selecting the (LDAP reference to Unica group map) template. Set the following properties.
 - New category name
 - LDAP reference map
 - · Unica group

For example, the following values map the LDAP UnicaUsers group to the Marketing PlatformamUsers and campaignUsers groups (FILTER is omitted).

- LDAP reference: cn=UnicaUsers,cn=Users, dc=myCompany,dc=com
- Unica group: amUsers; campaignUsers

Test synchronization

Test your configuration by logging in to IBM Unica Marketing as an IBM Unica Marketing user (not a directory server user), forcing synchronization, and checking the following.

Verify that users are imported as expected

If you are using group based synchronization, verify that Marketing Platform group memberships match the expected mapping to directory server groups.

To force synchronization of external users

- 1. Log in to IBM Unica Marketing and click **Settings > Users**.
- 2. Click Synchronize.

Users and groups are synchronized.

Set security mode to LDAP

Set security mode properties as described in the following procedure. This allows LDAP users to log in to IBM Unica Marketing applications.

- 1. Log in to IBM Unica Marketing, click **Settings** > **Configuration**, and navigate to Unica | Platform | security.
- 2. Set the value of the Login method property to LDAP.

Assign roles to mapped groups

If you are using group based synchronization, log in to IBM Unica Marketing and assign roles to mapped groups as planned.

Restart the web application server

Restart the web application server to ensure that all of your configuration changes are applied.

Test login as an LDAP user

Test your configuration by logging in to IBM Unica Marketing as an LDAP user who is a member of an LDAP group mapped to a Marketing Platform group that has been assigned access to Marketing Platform.

Chapter 12. Integrating with Web Access Control Platforms

Organizations use web access control platforms to consolidate their security systems, which provide a portal that regulates user access to web sites. This section provides an overview of IBM Unica Marketing integration with web access control platforms.

Authentication

When users access an application through a web access control portal, their authentication is managed through the web access control system. Web access control users who are also members of an LDAP group that is synchronized with IBM Unica Marketing are authenticated to all IBM Unica Marketing applications when they log in to the web access control system. These users do not see the IBM Unica Marketing application login screens.

Authorization

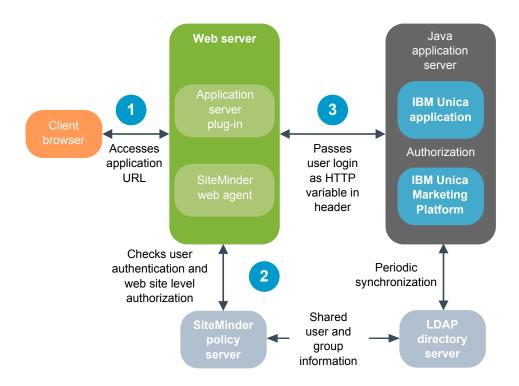
IBM Unica Marketing applications query the Marketing Platform for user authorization information. The Marketing Platform imports groups and their users from the LDAP database through a periodic synchronization task that automatically retrieves information from the LDAP server. When the Marketing Platform imports users and groups from the LDAP database, group memberships are maintained. These LDAP users are also exposed to the web access control system, so the web access control system and IBM Unica Marketing are referencing a consistent set of users.

Additional authorization controls, including control over the application URLs to which users have access, are also available through most web access control systems.

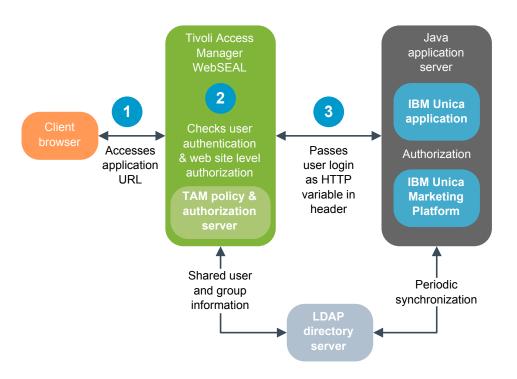
Web access control integration diagrams

The following figure illustrates how IBM Unica Marketing works with SiteMinder and an LDAP directory server to authenticate and authorize users.

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The following figure illustrates how IBM Unica Marketing works with Tivoli Access Manager and an LDAP directory server to authenticate and authorize users.



SiteMinder integration prerequisites

The following prerequisites must be met to integrate IBM Unica Marketing with Netegrity SiteMinder.

• SiteMinder must be configured to use a web agent and a policy server.

- SiteMinder must be configured to pass the login name as an HTTP variable in the URL request to the IBM Unica Marketing application, and the IBM Unica MarketingWeb access control header variable property must be set to the name of this variable (by default, sm user).
- The SiteMinder policy server must be configured to use LDAP as its repository for storing group members, and user properties.
- The IBM Unica Marketing application URLs provided by the web server hosting SiteMinder and the Java application server hosting the IBM Unica Marketing application must refer to the same path.
- The web server hosting SiteMinder must be configured to redirect requests to the IBM Unica Marketing application URL on the Java application server.
- All users who need to access IBM Unica Marketing applications must be granted access in SiteMinder to the IBM Unica Marketing web applications for HTTP GET and POST requests through SiteMinder.

See the remainder of this section for settings required to enable specific features or to support certain IBM Unica products.

Enabling single logouts

To enable a logout of SiteMinder when a user logs out of an IBM Unica Marketing application, configure SiteMinder as follows.

- 1. Log in to the **Administer Policy Server** area of SiteMinder and set the logoffUri property to the URL of the IBM Unica Marketing logout page. For example:/sm_realm/unica/j_spring_security_logoutwhere sm_realm is the SiteMinder security realm.
- 2. Unprotect the IBM Unica Marketing logout page, to ensure that SiteMinder does not force the user to sign in again to view the logout page.

Enabling the IBM Unica Scheduler

If you plan to use the IBM Unica Scheduler, you must configure SiteMinder as follows.

- 1. Log in to the **Administer Policy Server** area of SiteMinder and click **Domains**.
- 2. Select the realm that applies to your IBM Unica installations, right-click unprotecturl, and select Properties of Realm.
- 3. In the **Resource Filter** text box, enter /unica/servlet/SchedulerAPIServlet.
- 4. Under Default Resource Protection, select Unprotected.

Configuring settings for IBM Unica Optimize

If you plan to schedule IBM Unica Optimize sessions, you must configure SiteMinder as follows.

- 1. Log in to the **Administer Policy Server** area of SiteMinder and click **Domains**.
- 2. Select the realm that applies to your IBM Unica installations, right-click **unprotecturl**, and select **Properties of Realm**.
- In the Resource Filter text box, enter /Campaign/optimize/ ext_runOptimizeSession.do.
- 4. Under **Default Resource Protection**, select **Unprotected**.
- 5. Repeat the previous two steps, entering the following strings in the **Resource Filter** text box.
 - /Campaign/optimize/ext optimizeSessionProgress.do

• /Campaign/optimize/ext doLogout.do

Configuring settings for Marketing Operations

If you plan to use Marketing Operations, you must configure SiteMinder as follows.

- 1. Log in to the **Administer Policy Server** area of SiteMinder and click **Domains**.
- 2. Select the realm that applies to your IBM Unica installations, right-click unprotecturl, and select Properties of Realm.
- 3. In the **Resource Filter** text box, enter /plan/errorPage.jsp.
- 4. Under Default Resource Protection, select Unprotected.
- Repeat the previous two steps, entering the following strings in the Resource Filter text box.
 - /plan/errorPage.jsp
 - /plan/alertsService
 - /plan/services
 - /plan/invalid user.jsp
 - /plan/js/js_messages.jsp
 - /plan/js/format symbols.jsp
 - /unica/servlet/AJAXProxy

Tivoli Access Manager integration prerequisites

The following prerequisites must be met to integrate IBM Unica Marketing with IBM Tivoli Access Manager.

- The Tivoli Access Manager WebSEAL junction must be configured to pass the
 user name (Short, not Full DN) as the HTTP variable in the URL request to the
 IBM Unica Marketing application, and the IBM Unica Marketing Web access
 control header variable property must be set to the name of this user name
 variable (by default, iv-user).
- The Tivoli Access Manager policy server must be configured to use LDAP as its repository for storing group members and user attributes.
- The IBM Unica Marketing application URLs defined by a WebSEAL junction and the Java application server hosting the IBM Unica Marketing application must refer to the same path.
- All users who need to access IBM Unica Marketing applications must belong to a group added to an Access Control List (ACL) with appropriate permissions. A WebSEAL junction that points to an application server where Marketing Platform is deployed must be attached to this ACL.

Note: When users log out of an IBM Unica Marketing application, they are not automatically logged out of Tivoli Access Manager. They must close their browser after they log out of an IBM Unica Marketing application to log out of Tivoli Access Manager.

Enabling the IBM Unica Scheduler

If you plan to use the IBM Unica Scheduler, you must configure an Access Control List (ACL) policy in Tivoli as follows.

1. Use Web Portal Manager to log in to the domain as a domain administrator.

- Click ACL > Create ACL, complete the Name and Description fields, and click Apply.
- 3. Click **ACL** > **List ACL**, and from the Manage ACLs page, click the link for your ACL policy.
- 4. From the ACL Properties page, click **Create**, and create two entries for your ACL, as follows.
 - For the first entry, set the entry type to **unauthenticated** and grant **Trx Traverse**, **read**, **and execute** permissions.
 - For the second entry, set the entry type to **Any-other** and grant **Trx Traverse**, **read and execute** permissions.
- 5. On the ACL Properties page of the ACL, on the Attach tab, attach a protected object. Use the complete Scheduler servlet path in Tivoli, starting from WebSEAL and ending in /servlet/SchedulerAPIServlet.

Configuring settings for IBM Unica Optimize

If you plan to schedule IBM Unica Optimize sessions, you must configure an Access Control List (ACL) policy in Tivoli as follows.

- 1. Use Web Portal Manager to log in to the domain as a domain administrator.
- 2. Click ACL > Create ACL, complete the Name and Description fields, and click Apply.
- 3. Click **ACL** > **List ACL**, and from the Manage ACLs page, click the link for your ACL policy.
- 4. From the ACL Properties page, click **Create**, and create two entries for your ACL, as follows.
 - For the first entry, set the entry type to **unauthenticated** and grant **Trx Traverse**, **read**, **and execute** permissions.
 - For the second entry, set the entry type to **Any-other** and grant **Trx Traverse**, **read**, **and execute** permissions.
- 5. On the ACL Properties page of the ACL, on the Attach tab, attach the following as protected objects.
 - /Campaign/optimize/ext runOptimizeSession.do
 - /Campaign/optimize/ext_optimizeSessionProgress.do
 - /Campaign/optimize/ext_doLogout.do

How to integrate IBM Unica Marketing with a web access control platform

Topics in this section describe how to integrate IBM Unica Marketing with a web access control platform.

Configuration process checklist (Web access control integration)

Integrating IBM Unica Marketing with a web access control system is a multi-step process. The following procedure provides an overview of the process, which is described in detail elsewhere in this guide.

 "Perform LDAP integration" on page 132
 Follow instructions for LDAP integration, stopping at the "Test synchronization" step.

- 2. "Configure web access control integration in IBM Unica Marketing" Set web access control integration properties on the Configuration page.
- 3. "Restart the web application server" on page 115 This step is required to ensure that all of your changes are applied.
- 4. "Test web access control synchronization and IBM Unica Marketing login" on page 133

Verify that users and groups synchronize correctly in your web access control system and that you can log in to IBM Unica Marketing.

Perform LDAP integration

Perform all of the steps required for LDAP integration as described elsewhere in this guide.

Configure web access control integration in IBM Unica Marketing

On the Configuration page, set values of the properties as described in the following table. For complete details on these properties, see the online help on the Configuration page.

Property	Value
Unica Platform Security Login method details	Select Web access control.
Unica Platform Security Login method details Web access control Username pattern	A Java regular expression used to extract the user login from the HTTP header variable in web access control software. You must XML-escape any XML characters in the regular expression. The recommended value for SiteMinder and Tivoli Access Manager is \w*
Unica Platform Security Login method details Web access control Web access control header variable	The HTTP header variable configured in the web access control software, which is submitted to the web application server. By default, SiteMinder uses sm_user, and Tivoli Access Manager uses iv-user. For Tivoli Access Manager, set this value to the user name component of the IBM Raw string, not the IBM HTTP string.
Unica General Navigation Unica URL	Set to http://sm_host:sm_port/sm_realm/unica where sm_host is the name of the machine on which SiteMinder is installed sm_port is the SiteMinder port number sm_realm is the SiteMinder realm

Restart the web application server

Restart the web application server to ensure that all of your configuration changes are applied.

Test web access control synchronization and IBM Unica Marketing login

- 1. Log in to your web access control system with an LDAP account that has been synchronized into your web access control system and has access to the Marketing Platform.
- 2. Verify that:
 - · Users are imported as expected
 - Groups are imported as expected
 - IBM group memberships match the expected mapping to LDAP groups
- 3. Point your browser to the Marketing Platform URL and log in.
 You should be able to access IBM Unica Marketing without being presented with the IBM Unica Marketing login screen.
- 4. Use the following guidelines to resolve problems when your web access control software is Netegrity SiteMinder.
 - If you see an IBM Unica Marketing login screen, the user account with which you logged in might not have been synchronized into SiteMinder.
 - If you are not able to access IBM Unica Marketing, check that your SiteMinder configuration is correct. You can use the SiteMinder TestTool to verify that the user account with which you logged in has been authorized and granted access to IBM Unica Marketing URLs in SiteMinder.
 - If you can access IBM Unica Marketing, but navigation is not working correctly or images are not displaying, check to be sure that the web server hosting SiteMinder and the Java application server hosting the Marketing Platform use the same path to refer to the Marketing Platform.

Chapter 13. Implementing SSL in IBM Unica Marketing

Any communication that needs to be secured between two applications connecting over a network can be transmitted using the Secure Sockets Layer (SSL) protocol. SSL provides secure connections by:

- Allowing an application to authenticate the identity of another application
- Using a private key to encrypt and decrypt data transferred over the SSL connection

URLs that connect using SSL start with HTTPS instead of HTTP.

When processes communicate with each other, the process making a request acts as the client and the process responding to a request acts as the server. For complete security, SSL should be implemented for all forms of communication with IBM Unica Marketing products.

SSL can be configured one-way or two-way. With one-way SSL, the server is required to present a certificate to the client but the client is not required to present a certificate to the server. To successfully negotiate the SSL connection, the client must authenticate the server. The server accepts a connection from any client.

This section describes one-way SSL in IBM Unica Marketing.

About SSL certificates

Read this section to understand the SSL certificates in general.

What is a certificate?

A certificate is a digital signature that identifies the server as some named entity. Certificates can be signed by a certificate authority (CA) that vouches for the identity of the server, or they can be self-signed. Verisign or Thawte are examples of CAs. A self-signed certificate is one where the CA is the same entity that the certificate claims to identify.

Server-side certificates

Every server that is intended to provide SSL communication, whether it is an application server or an IBM Unica Marketing application such as the Campaign listener, needs to serve up a certificate.

Client side truststores

When the client receives the server certificate, it is up to the client to determine whether to trust the certificate. A client trusts a server certificate automatically if the certificate exists in the client truststore. A truststore is a database of trusted certificates.

Modern browsers have a truststore loaded with the common certificates endorsed by CAs. This is why you are not prompted when entering the secured site at major merchant web sites – they use certificates signed by a CA. But, when you log in to an IBM application that serves up a self-signed certificate, you sees the prompt.

Browsers check that the host name of the server matches the subject name in the certificate (the subject name is the Common Name used in the Distinguished Name, which you supply when you request a certificate). The browser might issue a warning if these two names do not match.

When a browser accesses an IBM application secured with a certificate it does not recognize (for example, a self-signed certificate), a dialog window opens, asking if the user wants to continue. If the user chooses to install the certificate to the local truststore, the prompt does not appear again.

Client and server roles in IBM Unica Marketing

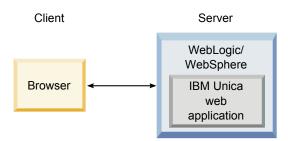
Most IBM Unica Marketing applications consist of two parts.

- The web application. The web application is the component that users access through a browser.
- The server (for example, the Campaign listener and the Marketing Platform API server). This component is accessed programmatically.

These application components can act as either the client or the server in a communication, depending on the situation. The following examples and diagrams illustrate the roles played by IBM components in various communications.

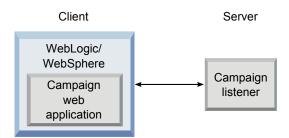
Example 1 - Communication between a browser and an IBM Unica Marketing web application

When users communicate with IBM Unica web applications through a browser, the browser is the client and the IBM Unica web application is the server.



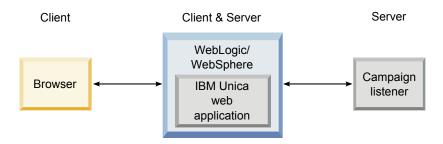
Example 2 - Communication between components of one IBM Unica Marketing application

The two components of a single IBM Unica application can also communicate with each other programmatically. For example, when the Campaign web application sends a request to the Campaign listener, the Campaign web application is the client and the listener is the server.



Example 3 - IBM Unica components playing both roles

An IBM Unica application component can communicate as a client in some exchanges and as a server in others. An example of these relationships is shown in the following diagram.



Understanding SSL in IBM Unica Marketing

As we have seen, many IBM Unica application components can act as both server and client during normal operations, and some IBM Unica components are written in Java and some in C++. These facts determine the format of the certificates you use. You specify the format when you create a self-signed certificate of purchase one from a CA.

Remember, IBM Unica applications do not require a truststore when they act as a client making one-way SSL requests to an IBM Unica server component.

Java component acting as a server

For IBM Unica applications written in Java, using the JSSE SSL implementation, and deployed on an application server, you must configure the application server to use your certificate. The certificate must be stored in JKS format.

Application servers provide default certificates, which require no additional configuration. The application server default certificate is used when you simply enable an SSL port in the application server and do not perform any additional configuration in the application server.

If you use a certificate other than the default certificate supplied by the application server, additional configuration is required. This configuration is described in "Configure your web application servers for SSL" on page 141

C++ component acting as a server

The Campaign listener, Optimize server component, the PredictiveInsight server component, and Attribution Modeler listener are written in C++, and require a certificate stored in PEM format.

Java component acting as a client

For IBM Unica applications written in Java and deployed on an application server, no truststore is needed. For ease of configuration, IBM Unica Java applications acting as a client do not authenticate the server during one-way SSL communications. However, encryption does take place.

C/C++ components acting as a client

For applications written in C/C++ and using the OpenSSL implementation, no truststore is needed. The Campaign listener, Optimize server component, PredictiveInsight server component, Attribution Modeler listener, and NetInsight fall into this category.

How many certificates?

Ideally, you should use a different certificate for every machine that hosts an IBM Unica component acting as a server.

If you do not want to use multiple certificates, you can use the same certificate for all the IBM Unica components acting as servers, if it is the correct format (that is JKS for Java components and PEM for C++ components). If you use one certificate for all applications, when users access IBM Unica applications for the first time, the browser asks whether they want to accept the certificate.

Examples in this chapter show you how to create self-signed certificate files for use with Java and C++ IBM Unica components.

How to implement SSL in IBM Unica Marketing

Topics in this section describe how to implement SSL in IBM Unica Marketing.

Configuration process checklist (SSL)

Configuring SSL in IBM Unica Marketing is a multi-step process. The following procedure provides an overview of the process, which is described in detail elsewhere in this chapter.

- 1. "Obtain or create certificates"
 - Obtain or create certificates if you prefer not to use the default certificates provided by IBM Unica and your application server.
- 2. "Configure your web application servers for SSL" on page 141
 Enable an SSL port in every application server where an IBM Unica application is deployed. If you are not using the application server default certificate, configure it to use your certificate.
- "Configure IBM Unica Marketing for SSL" on page 141 Set configuration properties in IBM Unica Marketing.
- "Verify your SSL configuration" on page 146Log in to each of your IBM Unica Marketing applications.

Obtain or create certificates

You can obtain or create certificates in several ways.

- You can use the default certificates provided by your application server.
- You can create self-signed certificates as described in this section.
- You can obtain certificates from a certificate authority (CA) as described in this section.

How to create self-signed certificates

Use the procedures in this section to create self-signed certificate files for use with IBM Unica Marketing.

- "To create a certificate for C++ IBM Unica Marketing components"
- "To create a certificate for Java IBM Unica Marketing components"

To create a certificate for C++ IBM Unica Marketing components

The Campaign listener implements SSL using the OpenSSL library. The OpenSSL distribution includes a command-line program called openss1 that can create a certificate file. For complete details on using this program, consult the OpenSSL documentation or access the help by entering -help when you run the program.

Use the following procedure to create a self-signed certificate that you can use when configuring a C++ IBM Unica Marketing component for SSL.

- 1. Run openss1 at the command line.
 - This program and its associated configuration file, openssl.cnf, are included in the bin directory of the Campaign installation. It is also available with the OpenSSL distribution.
- 2. Generate a key. The following example command creates a key named key.pem. genrsa -out key.pem 1024
- 3. Generate a request.

The following example command creates a request named request.pem.

```
req -new -key key.pem -out request.pem
```

The tool asks you a series of questions. If you enter a period (.) the field is left blank. For a self-signed certificate, you must at least enter the Common Name.

If you are using the openss1 tool from the Campaign/bin directory, add the -config parameter with a value that points to the openssl.cnf file in the same directory. For example:

req -config openssl.cnf -new -key key.pem -out request.pem

4. Generate a certificate.

The following example command creates a certificate named certificate.pem with an expiration of 10,000 days from the day it was created, using the request.pem and key.pem files.

req -x509 -key key.pem -in request.pem -days 10000 -out certificate.pem If you are using the openss1 tool from the Campaign/bin directory, add the -config parameter with a value that points to the openssl.cnf file in the same directory. For example:

- req -config openssl.cnf -x509 -key key.pem -in request.pem -days 10000 -out certificate.pem
- 5. Using a text editor, copy the contents of your key and certificate into a new file with a .pem extension.

To create a certificate for Java IBM Unica Marketing components

IBM Unica Marketing web application components written in Java use the JSSE library. The Sun JDK includes a program called keytool that can create a certificate file. Consult the Java documentation for complete details on using this program, or access the help by entering -help when you run the program.

Use the following procedure to create a self-signed certificate that you can use when configuring a Java IBM Unica Marketing component for SSL.

1. Run keytool at the command line.

This program is included in the bin directory of the Sun Java JDK.

2. Generate an identity keystore.

The following example command creates a keystore named UnicaClientIdentity.jks.

keytool -genkey -alias UnicaClientIdentity -keyalg RSA -keystore UnicaClientIdentity.jks -keypass clientPwd -validity 1000 -dname "CN=hostName, O=myCompany" -storepass clientPwd

Note the following.

- Make a note of the -storepass value (clientPwd in the example) as you need it when you configure the application server.
- Make a note of the -alias value (UnicaClientIdentity in the example) as you need it for the rest of this procedure.
- The common name (CN) in the distinguished name should be the same as the host name used to access IBM Unica Marketing. For example, if the URL for IBM Unica Marketing is https://hostName.companyDomain.com:7002/unica/jsp, then the CN should be hostName.companyDomain.com. The CN portion of the distinguished name is the only required portion; Organization (O) and Organizational Unit (OU) are not required.
- For WebSphere 6.0, the keystore password and key password must be the same.
- 3. Generate a certificate based on the identity keystore you created.

The following example command creates a certificate named UnicaCertificate.cer.

keytool -export -keystore UnicaClientIdentity.jks -storepass clientPwd
-alias UnicaClientIdentity -file UnicaCertificate.cer

The value of -alias is the alias you set for the identity keystore (UnicaClientIdentity in the example).

4. Generate a trusted keystore based on the certificate you created.

The following example command creates a trusted keystore named UnicaTrust.jks.

keytool -import -alias UnicaClientIdentity -file UnicaCertificate.cer
-keystore UnicaTrust.jks -storepass trustPwd

Note the following.

- Type Y when prompted to trust the certificate.
- The value of -alias is the alias you set for the identity keystore (UnicaClientIdentity in the example).
- Make a note of the -storepass value (trustPwd in the example) as you need it when you configure the application server.

How to obtain signed certificates

You can use the OpenSSL and keytool programs to create requests that you can then send to a CA to create signed certificates. Or, you can obtain signed certificates entirely provided by the CA. Note the following.

• For IBM Unica Marketing applications written in C++, obtain a certificate in PEM format.

 For all other IBM Unica Marketing applications, obtain a certificate in JKS format.

Consult your certificate authority documentation for instructions on how to obtain a signed certificate.

Configure your web application servers for SSL

On every application server on which an IBM Unica Marketing application is deployed, configure the web application server to use the certificates you have decided to employ. See your web application server documentation for details on performing these procedures.

Configure IBM Unica Marketing for SSL

To configure IBM Unica Marketing applications to use SSL, you must set some configuration properties. Use the procedures in this section that are appropriate for your installation of IBM Unica Marketing products and the communications that you want to secure using SSL.

When you access your IBM Unica Marketing installation over a secure connection, and when you set navigation properties for applications as described in the following procedures, you must use https and the secure port number in the URL. The default SSL port is 7002 for WebLogic and 8002 for WebSphere.

- "To configure SSL in the Marketing Platform"
- "To configure SSL in the Marketing Platform with LDAP integration" on page
- "To configure SSL in the Marketing Platform with data filters" on page 142
- "To configure SSL in Interaction History" on page 143
- "To configure SSL in Attribution Modeler" on page 143
- "To configure SSL in Marketing Operations" on page 143
- "To configure SSL in Campaign" on page 144>
- "To configure SSL in Optimize" on page 145
- "To configure SSL in Interact" on page 145
- "To configure SSL in Distributed Marketing" on page 146
- "To configure SSL in Reports" on page 146
- "To configure SSL in PredictiveInsight" on page 146
- "To configure SSL in NetInsight" on page 146

To configure SSL in the Marketing Platform

- 1. Log in to IBM Unica Marketing and click **Settings > Configuration**. The Configuration page appears.
- 2. Set the value of the General | Navigation | Unica URL property to the Marketing Platform URL.

For example: https://host.domain:SSL port/unica where:

- host is the name or IP address of the machine on which the Marketing Platform is installed
- domain is your company domain in which your IBM Unica Marketing products are installed

• SSL Port is the SSL port in the application server on which the Marketing Platform is deployed

Note https in the URL.

- 3. Locate the properties under the Navigation category for each of your installed IBM products where you set the HTTP and HTTPS ports. The names of the properties might vary by product, but their purpose should be obvious. For each product, set these values to the HTTP and HTTPS port in the application server on which the product is deployed.
- 4. If you have implemented LDAP integration, perform the procedure described in "To configure SSL in the Marketing Platform with LDAP integration."
- 5. If you plan to use the data filtering feature, perform the procedure described in "To configure SSL in the Marketing Platform with data filters."

To configure SSL in the Marketing Platform with LDAP integration

- 1. Perform the procedure described in "To configure SSL in the Marketing Platform" on page 141 if you have not done so already.
- 2. Log in to IBM Unica Marketing and click **Settings > Configuration** . The Configuration page appears.
- 3. Navigate to the Unica | Platform | Security | Login Method details | LDAP category and set the value of the Require SSL for LDAP connection property to true.

This setting requires the Marketing Platform to connect to the LDAP server using SSL when users log in.

- 4. Navigate to the Unica | Platform | Security | LDAP synchronization category and set the following values.
 - Set the value of the LDAP provider URL property to: 1daps:// host.domain:SSL_Port

where:

- host is the name or IP address of the LDAP server
- domain is the domain of the LDAP server
- *SSL Port* is the SSL port of the LDAP server.

For example: ldaps://LDAPMachine.myCompany.com:636

Note the 1daps in the URL.

The default SSL port for LDAP servers is 636.

 Set the value of the Require SSL for LDAP connection property to true. This setting requires the Marketing Platform to connect to the LDAP server using SSL when it synchronizes with the LDAP server.

To configure SSL in the Marketing Platform with data filters

When the Marketing Platform is deployed with SSL and you plan to use the data filtering feature, you must perform this procedure to add the SSL options that perform hand shaking.

- 1. Perform the procedure described in "To configure SSL in the Marketing Platform" on page 141 if you have not done so already.
- 2. Open the datafilteringScriptTool.bat file in a text editor. The file is located in the tools/bin directory under your Marketing Platform installation.

3. Add the changes shown below in **bold**.

Line breaks have been added to the example for print.

```
SET SSL OPTIONS=-Djavax.net.ssl.keyStoreType="JKS"
-Djavax.net.ssl.trustStore="path_to_your_jks file"
-Djavax.net.ssl.trustStorePassword=your trust store password
```

"%JAVA HOME%\bin\java" %SSL OPTIONS% com.unica.management.client.datafiltering.tool.DataFilteringScriptTool %* Substitute your values for path to your jks file and your trust store password .

4. Save and close the file.

To configure SSL in Interaction History

- 1. Log in to IBM Unica Marketing and click **Settings > Configuration**. The Configuration page appears.
- 2. Set the value of the Interaction History | navigation | HTTPS Port property to the https port in the application server on which Interaction History is deployed.
- 3. Set the value of the Interaction History | navigation | Server URL property to the Interaction History URL.

For example: https://host.domain:SSL port/unica where:

- *host* is the name or IP address of the machine on which Interaction History is installed
- domain is your company domain in which your IBM Unica Marketing products are installed
- SSL Port is the SSL port in the application server on which Interaction History is deployed

Note the https in the URL.

To configure SSL in Attribution Modeler

- 1. Log in to IBM Unica Marketing and click **Settings > Configuration**. The Configuration page appears.
- 2. Set the value of the Attribution Modeler | navigation | httpsPort property to the https port in the application server on which Attribution Modeler is deployed.
- 3. Check the Attribution Modeler | navigation | serverURL property to ensure that it uses https in the URL.
- 4. Ensure that the value of the Attribution Modeler | AMListener | serverPort property is an appropriate port for SSL.
- 5. Set the value of the Attribution Modeler | AMListener | useSSL property to TRUE.

To configure SSL in Marketing Operations

- 1. Log in to IBM Unica Marketing and click **Settings > Configuration** . The Configuration page appears.
- 2. Set the value of the Marketing Operations | navigation | serverURL property to the URL of the Marketing Operations web application.

For example: serverURL=https://host:SSL port/plan where:

- host is the name or IP address of the machine on which Marketing Operations is installed.
- SSL Port is the SSL port of the Marketing Operations web application Note the https in the URL.
- 3. Open the plan_config.xml file in a text or XML editor.
 - The plan config.xml file is located in the conf directory under your Marketing Operations installation.
- 4. Set the UAPInitParam notifyPlanBaseURL property for your SSL connection. For example: <UAPInitParam notifyPlanBaseURL="https://host:SSL Port/plan/ affiniumplan.jsp"/>

where:

- host is the name or IP address of the machine on which Marketing Operations is installed.
- SSL Port is the SSL port of the Marketing Operations web application Note the https in the URL.
- 5. To enable Adobe Acrobat Online Markup functionality to work with Marketing Operations over HTTPS, set the markupServerURL property for your SSL connection.

For example: <UAPInitParam markupServerURL="https://host:SSLport/plan/ services/collabService?WSDL">

where:

- host is the name or IP address of the machine on which Marketing Operations is installed
- SSL Port is the SSL port of the Marketing Operations web application Note the https in the URL.
- 6. Save and close the plan config.xml file.

To configure SSL in Campaign

- 1. Open the config.xml file in a text or XML editor.
 - The config.xml file is in the conf directory under your Campaign installation.
- 2. Set the value of unicaServerSSLFile to the full path of the PEM file you are using. (The file that IBM Unica provides, unicaclient.pem, is located in the security directory.) For example:
 - unicaServerSSLFile=C:/Unica/security/certificateFile.pem
- 3. Save and close the config.xml file.
- 4. Log in to Marketing Platform and click **Settings > Configuration**. The Configuration page appears.
- 5. Set the value of the Campaign | unicaACListener | useSSL property to yes.
- 6. If you deployed the web application on an SSL port, set the value of the Campaign | navigation | serverURL property to the web application URL. For example:

serverURL=https://host:SSL port/Campaign

- host is the name or IP address of the machine on which the web application is installed
- SSL Port is the SSL port of the web application

Note the https in the URL.

7. If you are using the operational monitor, configure it for SSL by setting the value of the Campaign | monitoring | serverURL property to use HTTPS. For example:

serverURL=https://host:SSL port/Campaign/OperationMonitor where:

- host is the name or IP address of the machine on which the web application
- SSL_Port is the SSL port of the web application Note the https in the URL.

To configure SSL in Optimize

- 1. Open the config.xml file found in the conf directory of your Optimize installation directory in a text or XML editor.
- 2. Set the value of unicaServerSSLFile to the full path of the PEM file you are using. (The file that IBM provides, unicaclient.pem, is located in the security directory of your Optimize installation.)
- 3. Save and close the config.xml file.
- 4. Set the value of the Campaign | unicaACOListener | useSSL configuration property to yes.
- 5. If you are using the Optimize command-line tool ACOOptAdmin, you must edit the ACOOptAdmin.bat or ACOOptAdmin.sh file to recognize the SSL certificate by adding the following bold text.

Note that line breaks have been added to the example for print.

```
SET SSL OPTIONS=-Djavax.net.ssl.keyStoreType="JKS"
-Djavax.net.ssl.trustStore=
"path_to_your_jks_file/name_of_your_jks_file"
-Djavax.net.ss1.trustStorePassword=password_in_your_jks_file
"$JAVA_HOME/bin/java" %SSL_OPTIONS%"
com.unicacorp.Campaign.optimize.tools.optadmin.OptAdmin "$@"*
```

Use the correct path to unicaClientIdentity.jks for your installation and the correct name and password for your jks certificate. Note that the -D option is preceded by a space.

To configure SSL in Interact

Important: There is a performance cost if you configure any part of Interact to communicate using SSL. IBM does not recommend configuring Interact to use SSL.

You can configure SSL communication for Interact in up to three ways:

- Design environment as the client and Runtime environment as the server. Use https in the URL referencing the Interact runtime server. For example, set Campaign | partitions | partition[n] | Interact | ServerGroups | [serverGroup] | instanceURLs | [instanceURL] | instanceURL to https://myserver.domain.com:7007/interact.
- Runtime environment as the client and Marketing Platform as the server. See "To configure SSL in the Marketing Platform" on page 141 for details.
- Your touchpoint as the client and the Runtime environment as the server. Specify the HTTPS URL with the getInstance method. If using a load balancer, you might need to configure your load balancer for SSL as well.

To configure SSL in Distributed Marketing

After Campaign is configured to use SSL, no additional configuration is required to configure Distributed Marketing for SSL.

To configure SSL in Reports

- 1. Configure Cognos with SSL as described in the Cognos documentation.
- 2. Configure Apache with SSL as described in the Apache documentation.
- 3. Register the Cognos certificate with IBM Unica Marketing as described in the Cognos documentation.
- 4. Register the IBM Unica Marketing certificates with Cognos as described in the Cognos documentation.

To configure SSL in PredictiveInsight

- 1. If you have the Enterprise version of PredictiveInsight and you want the PredictiveInsight listener to communicate using SSL, do the following.
 - a. In the environment where you have installed PredictiveInsight, open the Unica/config.xml file in a text or XML editor.
 - b. Set the value of unicaServerSSLFile to the full path of the PEM file you are using. For example: unicaServerSSLFile=C:/Unica/certificateFile.pem where certificateFile.pem is name of the file containing the certificate that you want the PredictiveInsight listener to use.
 - c. Save and close the config.xml file.
- 2. Open the model server.conf file in a text editor.

The file is located in the config directory under your PredictiveInsight installation.

- 3. Set the following values.
 - Server.UseSSL=Yes
 - Server.SSLURL=https://host:SSL Port/context-root where:
 - host is the name or IP address of the machine on which the PredictiveInsight web application is installed.
 - SSL Port is the SSL port of the PredictiveInsight web application.
 - context-root is the SSL context root of the PredictiveInsight web application.

Note the https in the URL.

To configure SSL in NetInsight

NetInsight does not accept any requests: it always acts as the client in HTTP and HTTPS communications to resolve page titles on the web site being analyzed. If you need to resolve page titles for a site that uses SSL, you only need to ensure that the URL entered in the profile options for the website or clustered servers being analyzed is correct and that the URL includes the HTTPS protocol.

NetInsight does not communicate with the Marketing Platform.

Verify your SSL configuration

- 1. Start each of your IBM Unica Marketing applications.
- 2. Log in to IBM Unica Marketing and access each of your installed IBM Unica Marketing web applications.

- 3. For Interact runtime servers only, test the connection using the URL https://host:port/interact/jsp/admin.jsp.
- 4. If you are using a self-signed certificate, point your browser to each of the IBM Unica Marketing server components and verify that the certificate information you receive is as expected.

For example, if the Campaign listener is running on port 4664 on a host named campaignHost, point your browser to https://campaignHost:4664

Your browser opens a window asking if you want to accept the certificate, and you can view certificate details.

Useful links for SSL

- OpenSSL documentation http://www.openssl.org/docs/
- keytool documentation http://download.oracle.com/javase/1.4.2/docs/ tooldocs/windows/keytool.html
- List of certificate authorities http://www.dmoz.org/Computers/Security/ Public_Key_Infrastructure/PKIX/Tools_and_Services/ Third_Party_Certificate_Authorities/

Chapter 14. Setting Up Data Filters

The various IBM Unica Marketing applications use data filters in different ways. See the documentation for the individual products to determine whether the product uses data filtering, and if so, the details of how data filtering works within that product.

In general, when an IBM Unica application uses data filtering, IBM Unica administrators can specify data access restrictions in IBM Unica products based on configurable data filters. Data filters make it possible to restrict the customer data that an IBM Unica user can view and work with in IBM Unica applications. You can think of the data you secure with a data filter as a data set defined by the fields in your customer tables that you specify.

About setting up data filters

The Marketing Platform provides the following functions that IBM Unica Marketing administrators use to set up data filters.

- A utility for defining data filters.
- A user interface for assigning users and groups to data filters and for viewing assigned data filters

Data filter associations to restrict user access

To restrict data access for individual users or groups of users, you assign them to data filters. All IBM Unica Marketing users and groups are available for assignment to data filters. You can assign multiple users and groups to a single data filter, and you can also assign a user or a group of users to multiple data filters.

Note: Groups do not acquire the data filter assignments of their subgroups.

A user who is assigned to multiple data filters sees all of the records allowed by all of the data filters.

Data filter concepts

To understand how to set up data filters, you need to be familiar with some concepts used in the data filter feature, in databases in general, and in Campaign in particular (if you are setting up data filters that will be used in an application in the Campaign family).

- data configuration A data configuration groups a set of data filters. All data filters that secure related data are associated with the same data configuration.
- audience The field or fields in customer tables designated in Campaign as an audience level. Typical audience levels are household and individual.
- physical field name The physical names of fields in a database table are the names you see when you view the tables directly in the database client. When the data filter is in use, it uses the physical name when querying the customer database.
- **logical field name** When you define data filters, you assign logical names to physical fields. If you are setting up data filters that will be used in an

application in the Campaign family, these logical names must be the same as names assigned to fields in Campaign. This name is used by the utility when it generates data filters.

Two ways to create data filters: automatic generation and manual specification

IBM Unica Marketing provides a utility, datafilteringScriptTool, that processes XML to create the data filters in the Marketing Platform system tables. Depending on how you write the XML, you can use this utility in two ways: automatic generation and manual specification.

Automatic generation

The datafilteringScriptTool utility can automatically generate data filters from a database table or view accessible using JDBC. The utility automatically creates data filters based on unique combinations of values in fields that you specify in the XML (one data filter for each unique combination).

This method is described in "Configuration Process Checklists" on page 160.

You might want to use this method if you must create many data filters.

Manual specification

The datafilteringScriptTool utility can create data filters one by one, based on field values that you specify.

This method is described in "Configuration process checklist (manual specification of data filters)."

You might want to use this method if you want to create a set of data filters that does not include every unique combination of field values.

How to set up data filters using manual specification

Topics in this section describe how to set up data filters using manual specification.

Configuration process checklist (manual specification of data filters)

Configuring data filters using the manual specification method is a multi-step process. The following procedure provides an overview of the process, which is described in detail elsewhere in this guide.

- 1. "Plan your data filter criteria (manual generation)" on page 151 Decide what customer data you want to secure.
- 2. "Obtain required information (manual specification)" on page 151
 Gather the required database information, and, if you plan to use the data filters with an application in the Campaign family, the Campaign-related information.
- 3. "Create the XML to specify data filters (automatic generation)" on page 162 Create the XML file that specified the customer data used as criteria in each data filter.
- 4. "Populate the data filter system tables" on page 152

Run the datafilteringScriptToool utility, which uses your XML to populate the Marketing Platform system tables that are used for data filters.

5. "Assign users and groups to data filters" on page 152 Use the IBM Unica Marketing data filter user interface to perform searches for users, groups, and data filters and then select items from the search results and assign them.

Install Marketing Platform

Install Marketing Platform. Perform all of the required steps described in the installation guide.

Plan your data filter criteria (manual generation)

Data filter criteria are based on your customer data. Before you can define data filters, you need to decide what customer data you want to secure.

For example, you might want to restrict access to customer data based on the geographical sales territory to which the IBM Unica Marketing user is assigned. If the Region field in your customer database relates to your sales territories, you might choose to base a group of data filters on this field.

You should be aware of the concept of field constraints, which you need to understand when you plan how to create data filters using manual specification. A field constraint is a field/value pair used to specify a data filter. This value is used in a WHERE clause when customer records are queried. Because the clause tests for equality, field constraints must be defined against fields that support a finite set of distinct values.

In the example, the Region field might contain the following values: Asia, Europe, Middle East, North America, and South America. You use these values when you specify field constraints for your data filters. You would set up a different data filter for each of your sales territories, using the values in the Region field in your customer tables as field constraints.

A IBM Unica Marketing user assigned to one or more data filters would be able to view and work with only the data belonging to the customers who fall within the sales territory or territories represented by the assigned data filter(s).

Obtain required information (manual specification)

If you are defining data filters that will be used in an application that is a member of the Campaign family of products, the logical names of fields you specify in the XML that defines the data filters must match the names given to these fields in Campaign.

Obtain the following information.

- The physical name of the table containing the fields you want to use.
- The finite set of data in the fields you want to use for field constraints.
- If you plan to use the data filters in an application that is a member of the Campaign family, obtain the names assigned in Campaign to the following fields.
 - The audience fields

- The fields you plan to use for field constraints

Create the XML to specify data filters (manual specification)

Create the XML file that specifies the customer data used as criteria in each data filter. In the next step, you will run a utility that populates the system tables with these specifications.

Populate the data filter system tables

Run the datafilteringScriptTool utility, which uses your XML to populate the data filter system tables.

See "The datafilteringScriptTool utility" on page 191 for details on using the utility.

Note: If you need to delete data filters, run the ManagerSchema PurgeDataFiltering.sql script as described in "Removing data filters only (ManagerSchema_PurgeDataFiltering.sql)" on page 200.

Assign users and groups to data filters

Use the IBM Unica Marketing data filter user interface to perform searches for users, groups, and data filters and then select items from the search results and assign them. You can also perform searches to view data filters that have already been assigned to users and groups.

Data filter XML reference (manual specification)

This section describes the XML elements for which you must provide values when you use the datafilteringScriptTool to generate data filters by specifying them manually.

About the IDs in the XML

Some objects require IDs. For example, data configurations, logical fields, and data tables all require that you specify IDs. The IDs you specify must be unique within a category of object.

Some objects reference other objects using IDs. For example, tables reference logical fields. When you need to reference another object, use the ID you specified for the object.

The XML uses the following convention for ID element names. This convention helps you understand when you must create a unique ID and when you must reference another ID within the XML.

- When you must create a unique ID, the element is named id.
- When you must reference another object ID, the element is named for the object. For example, the ID element where you reference a logical field is named logicalFieldId.

Note that the IDs you assign to an object are not the IDs Marketing Platform assigns to the object. The IDs you assign are used only for referencing the object within the XML.

AddDataConfiguration | dataConfiguration

This group of elements is used to define data configurations you use to group related data filters. You should create a data configuration for every set of related data filters.

Element	Description	System table
id	Unique ID that you assign to this data configuration.	N/A
name	Name that you assign to this group of data filters.	Table: df_config Field: config_name

AddLogicalFields | logicalFields | LogicalField

This group of elements is used to define the logical fields corresponding to the fields in the customer table that you use to define your data filters. Create one logical field for each field from which you want to create field constraints, and one logical field for each audience

Element	Description	System table
id	Unique ID that you assign to this logical field.	N/A
name	Logical name for this field or audience. If used with an application in the Campaign family, must be the same as the field or audience name used in Campaign.	Table: df_logical_field Field: logical_name
type	Data type of this field in the customer table. Allowed values are: • java.lang.String • java.lang.Long • java.lang.Double • java.lang.Boolean • java.lang.Date (The date format is month/day/year, where the month, day, and year are all expressed as numbers.)	Table: df_logical_field Field: type

AddDataTable | dataTable

This group of elements is used to assign IDs to customer tables.

Element	Description	System table
id	Unique ID that you assign to this table.	N/A
name	Physical name of the customer table that you want to secure. If the database is case-sensitive, must match case used in the database.	Table: df_table Field: table_name

AddDataTable | dataTable | fields | TableField

This group of elements is used to map physical fields in the customer table to logical fields that you have defined.

Element	Description	System table
name	Physical name of the field in the customer table. If the database is case-sensitive, must match case used in the database.	Table: df_table_field Field: physical_name
logicalFieldId	ID of the logical field in the AddLogicalFields logicalField LogicalField category.	N/A

AddDataFilters | dataFilters | DataFilter

This group of elements is used to create a data filter.

Element	Description	System table
configId	ID of the data configuration in the AddDataConfiguration dataConfiguration category with which this filter is associated.	N/A
id	Unique ID that you assign.	N/A

AddDataFilters | dataFilters | DataFilter | fieldConstraints | **FieldConstraint**

This group of elements is used to specify the data in a field used to define a data filter.

Element	Description	System table
logicalFieldId	ID of the logical field in the AddLogicalFields logicalField LogicalField category.	N/A
expression	One item of the data in a field that is used in a WHERE clause when retrieving data for a user assigned to this filter. If the database is case-sensitive, must match case used in the database.	Table: df_field_constraint Field: expression

AddAudience | audience

This group of elements is used to specify the name assigned in Campaign to an audience level used in the Campaign family of products.

Element	Description	System table
id	Unique ID that you assign to this audience.	N/A

Element	Description	System table
name	Name of the audience as specified	Table: df_audience
	in Campaign.	Field: audience_name

AddAudience | audience | fields | AudienceField

This group of elements is used to specify the field or fields in your customer tables that are used as audience fields.

Element	Description	System table
logicalFieldId	ID of the logical field in the AddLogicalFields logicalField category. If used with an application in the Campaign family, must be the same logical name used in Campaign.	N/A
fieldOrder	For future use. Set the value to 0.	N/A

addAudienceTableAssociations | addAudienceTableAssociation | audienceTableAssociation

This group of elements is used to associate pairs of audience fields and tables with data configurations. Create an association for every audience field.

Element	Description	System table
audienceId	ID of the audience to be used in this association. Must be an ID value in an AddAudience audience category.	N/A
tableId	ID of the table to be used in this association. Must be an ID value in an AddDataTable dataTable category. The table must be one that contains the audience specified in the audienceID element. If the audience exists in more than one table, create multiple associations.	N/A
configId	ID of the data configuration to be used in this association. Must be an ID value in an AddDataConfiguration dataConfiguration category.	N/A

Example: Manually specifying data filters

Jim needs to create a set of data filters based on sales territories.

In Campaign, the customer tables have already been mapped and audience levels have been defined.

Obtaining information

Jim determines that the Territory table contains the fields he needs to specify field constraints for the data filters.

The following table illustrates the information Jim obtains about the customer fields and their Campaign mappings.

Table 18. Territory table fields

Fields	Fields		
(physical name)	(name in Campaign)	Data	Data type
cust_region	CustomerRegion	Africa	java.lang.String
		Africa	
		Asia	
		• Europe	
		Middle East	
		North America	
hh_id	HouseholdID	N/A	java.lang.Long
indiv_id	IndividualID	N/A	java.lang.Long

Jim learns that the audience names used in Campaign are household and individual. He notes that the Territory table contains two audience fields. The hh_id field corresponds to the household audience. The indiv_id field in the Territory table corresponds to the individual audience.

Because Jim must create one logical field for each audience, and one for the field constraint field, he knows he needs a total of three logical fields.

Jim also knows he needs to group the data filters in a data configuration. He decides to name his data configuration Territory.

Jim is now ready to create the XML.

Creating the XML

Here is the XML that Jim creates. Values based on the information he obtained are shown in **bold**.

```
<?xml version="1.0" encoding="UTF-8"?>
```

<!-- Create the data configuration that groups related Data Filters -->

<name>DataFilters

<operations>

<AddDataConfiguration>

<dataConfiguration>

<id>1</id>

<name>Territory</name>

</dataConfiguration>

</AddDataConfiguration>

</operations>

</ExecuteBatch>

<ExecuteBatch>

<name>SeedData</name>

<operations>

<ExecuteBatch>

```
<!-- Add logical fields used to define data filters -->
<AddLogicalFields>
<logicalFields>
<LogicalField>
<id>1</id>
<name>CustomerRegion
<type>java.lang.String</type>
</LogicalField>
<LogicalField>
<id>2</id>
<name>HouseholdID</name>
<type>java.lang.Long</type>
</LogicalField>
<LogicalField>
<id>3</id>
<name>IndividualID</name>
<type>java.lang.Long</type>
</LogicalField>
</logicalFields>
</AddLogicalFields>
<!-- Add the Territory field constraints -->
<AddDataFilters>
<dataFilters>
<DataFilter>
<configId>1</configId>
<id>1</id>
<fieldConstraints>
<FieldConstraint>
<logicalFieldId>1</logicalFieldId>
<expression>Africa</expression>
</FieldConstraint>
</fieldConstraints>
</DataFilter>
<DataFilter>
<configId>1</configId>
<id>2</id>
<fieldConstraints>
<FieldConstraint>
<logicalFieldId>1</logicalFieldId>
<expression>Asia
</FieldConstraint>
</fieldConstraints>
</DataFilter>
<DataFilter>
<configId>1</configId>
<id>3</id>
<fieldConstraints>
<FieldConstraint>
<logicalFieldId>1</logicalFieldId>
<expression>Europe</expression>
</FieldConstraint>
</fieldConstraints>
</DataFilter>
<DataFilter>
<configId>1</configId>
<id>4</id>
<fieldConstraints>
<FieldConstraint>
<logicalFieldId>1</logicalFieldId>
<expression>Middle East</pression>
</FieldConstraint>
</fieldConstraints>
</DataFilter>
<DataFilter>
<configId>1</configId>
<id>5</id>
<fieldConstraints>
```

```
<FieldConstraint>
<logicalFieldId>1</logicalFieldId>
<expression>North America</expression>
</FieldConstraint>
</fieldConstraints>
</DataFilter>
</dataFilters>
</AddDataFilters>
<!-- Map physical to logical fields -->
<ExecuteBatch>
<name>addTables</name>
<operations>
<AddDataTable>
<dataTable>
<id>1</id>
<name>Territory</name>
<fields>
<TableField>
<name>cust_region</name>
<logicalFieldId>1</logicalFieldId>
</TableField>
<TableField>
<name>hh_id</name>
<logicalFieldId>2</logicalFieldId>
</TableField>
<TableField>
<name>indiv_id</name>
<logicalFieldId>3</logicalFieldId>
</TableField>
</fields>
</dataTable>
</AddDataTable>
</operations>
</ExecuteBatch>
<!--Add Audiences-->
<ExecuteBatch>
<name>addAudiences</name>
<operations>
<AddAudience>
<audience>
<id>1</id>
<name>household</name>
<fields>
<AudienceField>
<logicalFieldId>2</logicalFieldId>
<fieldOrder>0</fieldOrder>
</AudienceField>
</fields>
</audience>
</AddAudience>
<AddAudience>
<audience>
<id>2</id>
<name>individual</name>
<fields>
<AudienceField>
<logicalFieldId>3</logicalFieldId>
<fieldOrder>0</fieldOrder>
</AudienceField>
</fields>
</audience>
</AddAudience>
</operations>
</ExecuteBatch>
```

```
<!-- Associate table-audience pairs with data configuration) -->
<ExecuteBatch>
<name>addAudienceTableAssociations
<operations>
<AddAudienceTableAssociation>
<audienceTableAssociation>
<audienceId>1</audienceId>
<tableId>1</tableId>
<configId>1</configId>
</audienceTableAssociation>
</AddAudienceTableAssociation>
<AddAudienceTableAssociation>
<audienceTableAssociation>
<audienceId>2</audienceId>
<tableId>1</tableId>
<configId>1</configId>
</audienceTableAssociation>
</AddAudienceTableAssociation>
</operations>
</ExecuteBatch>
</operations>
</ExecuteBatch>
```

Populating the system tables

Jim has named his data filter XML file regionDataFilters.xml and saved it in the tools/bin directory under his Marketing Platform installation. He opens a command prompt and uses the datafilteringScriptTool utility to populate the data filter system tables.

Assigning users and groups to the data filters

Finally, Jim logs in to IBM Unica Marketing with an account that has Admin access in Marketing Platform.

He knows that groups have already been set up in IBM Unica Marketing with users assigned by region.

He goes to the Data Filter section and sees that the field constraints from his data filters are available in the advanced search for data filters. He performs a search for a data filter, using Africa as a search criterion. The data filter he set up for the Africa region appears in the search results.

Next, Jim performs a search for the Africa user group, which has been set up in IBM Unica Marketing to hold all field marketers who are responsible for marketing to customers in Africa. The Africa group appears in the search results.

Jim then selects the group and the data filter in the search results, and assigns the group to the data filter by clicking the Assign button.

He continues to perform searches for data filters and groups until all assignments are completed.

How to set up data filters using automatic specification

Topics in this section describe how to set up data filters using automatic specification.

Configuration Process Checklists

Configuring data filters using the automatic generation method is a multi-step process. The following procedure provides an overview of the process, which is described in detail elsewhere in this guide.

- 1. "Plan your data filter criteria (automatic generation)" Decide what customer data you want to secure.
- 2. "Obtain the JDBC driver for your database" on page 161

 Obtain the Type 4 JDBC driver that provides connectivity to the database containing the table on which you want to base your data filters.
- 3. "Obtain required information (automatic generation)" on page 161 Gather the required database information, and, if you plan to use the data filters with an application in the Campaign family, the Campaign-related information.
- 4. "Create the XML to specify data filters (automatic generation)" on page 162 Create the XML file that specified the customer data used as criteria in each data filter.
- 5. "Populate the data filter system tables" on page 152
 Run the datafilteringScriptToool utility, which uses your XML to populate the Marketing Platform system tables that are used for data filters.
- 6. "Assign users and groups to data filters" on page 152

 Use the IBM Unica Marketing data filter user interface to perform searches for users, groups, and data filters and then select items from the search results and assign them.

Install Marketing Platform

Install Marketing Platform. Perform all of the required steps described in the installation guide.

Plan your data filter criteria (automatic generation)

Data filter criteria are based on your customer data. Before you can define data filters, you need to decide what customer data you want to secure.

For example, you might want to restrict access to customer data based on the countries, cities, and states where your customers live. If your customer database has a table that contains country, city, and state fields, you might choose to base a group of data filters on these fields. You would then use these values when you specify your data filters.

You should be aware of the following concepts when you plan how to create data filters using automatic generation.

- profile field A field whose value is considered when the data filter generation
 utility looks for unique combinations of values. The utility creates a data filter
 for each unique combination of values. When the data filter is in effect in an
 IBM Unica application, this value is used in a WHERE clause when customer
 records are queried. Because the clause tests for equality, profile fields must be
 defined against fields that support a finite set of distinct values.
- **fixed field** An optional field that limits the records that the data filter generation utility looks at when querying for unique combinations of profile

field values. The value you specify is also included in every generated data filter. When the data filter is in effect in an IBM Unica application, this value is used in a WHERE clause when customer records are queried. Because the clause tests for equality, fixed fields must be defined against fields that support a finite set of distinct values.

In the example, you would probably create a fixed field for a country, and profile fields for city and state. The data filter generation utility creates a data filter for each unique combination of values it finds in these fields.

AIBM Unica user assigned to one or more data filters would be able to view and work with only the data belonging to the customers who live in the countries, cities, and states represented by the assigned data filter(s).

It is possible that your customer tables do not contain every value for which you want to create a data filter. For example, you might not have customers in every country and state, but might want to prepare data filters for every country and state for future use. In that case, you can reference a table that includes every country and state and use it in the GenerateDataFilters section of your XML specification. When you have finished using the utility to create your data filters, you can discard this 'dummy' table.

Obtain the JDBC driver for your database

A JDBC driver is required by the data filter generation utility (datafilteringScriptTool) when you use it to generate data filters automatically.

- 1. Obtain the Type 4 JDBC driver that provides connectivity to the database containing the table on which you want to base your data filters.
- 2. Place the driver on the machine where Marketing Platform is installed.
- 3. Make a note of the class name and path.

Obtain required information (automatic generation)

Note: If you are defining data filters that will be used in an application that is a member of the Campaign family of products, the logical names of fields you specify in the XML that defines the data filters must match the names given to these fields in Campaign.

Obtain the following information.

- For the database that contains the table you want to use in defining your data filters, the database type, the name or IP address, and the port.
- Database credentials (user name and password) that allow you to connect to the database.
- The physical name of the table containing the fields you want to use.
- The physical names of the fields you want to use for profile fields and fixed fields (fixed fields are optional).
- If you plan to use the data filters in an application that is a member of the Campaign family, obtain the names assigned in Campaign to the following fields.
 - The audience fields.
 - The fields you plan to use for fixed and profile fields.

Create the XML to specify data filters (automatic generation)

Create the XML file that specifies the customer data used as criteria in each data filter. In the next step you will run a utility that populates the system tables with these specifications.

Populate the data filter system tables

Run the datafilteringScriptTool utility, which uses your XML to populate the data filter system tables.

See "The datafilteringScriptTool utility" on page 191 for details on using the utility.

Note: If you need to delete data filters, run the ManagerSchema PurgeDataFiltering.sql script as described in "Removing data filters only (ManagerSchema_PurgeDataFiltering.sql)" on page 200.

Assign users and groups to data filters

Use the IBM Unica Marketing data filter user interface to perform searches for users, groups, and data filters and then select items from the search results and assign them. You can also perform searches to view data filters that have already been assigned to users and groups.

Data filter XML reference (automatic generation)

This section describes the XML elements for which you must provide values when you use the datafilteringScriptTool to generate data filters automatically.

About the IDs in the XML

Some objects require IDs. For example, data configurations, logical fields, and data tables all require that you specify IDs. The IDs you specify must be unique within a category of object.

Some objects reference other objects using IDs. For example, tables reference logical fields. When you need to reference another object, use the ID you specified for the object.

The XML uses the following convention for ID element names. This convention helps you understand when you must create a unique ID and when you must reference another ID within the XML.

- When you must create a unique ID, the element is named id.
- When you must reference another object ID, the element is named for the object. For example, the ID element where you reference a logical field is named logicalFieldId.

Note that the IDs you assign to an object are not the IDs Marketing Platform assigns to the object. The IDs you assign are used only for referencing the object within the XML.

AddDataConfiguration | dataConfiguration

This group of elements is used to define data configurations you use to group related data filters. You should create a data configuration for every set of related data filters.

Element	Description	System table
id	Unique ID that you assign to this data configuration.	N/A
name	Name that you assign to this group of data filters.	Table: df_config Field: config_name

AddLogicalFields | logicalFields | LogicalField

This group of elements is used to define the logical fields corresponding to the fields in the customer table that you use to define your data filters. Create one logical field for each field from which you want to create field constraints, and one logical field for each audience

Element	Description	System table
id	Unique ID that you assign to this logical field.	N/A
name	Logical name for this field or audience. If used with an application in the Campaign family, must be the same as the field or audience name used in Campaign.	Table: df_logical_field Field: logical_name
type	Data type of this field in the customer table. Allowed values are: • java.lang.String • java.lang.Long • java.lang.Double • java.lang.Boolean • java.lang.Date (The date format is month/day/year, where the month, day, and year are all expressed as numbers.)	Table: df_logical_field Field: type

GenerateDataFilters

This group of elements is used to generate data filters.

Element	Description	System table
tableName	Physical name of the table from which you want to generate data filters. If the database is case-sensitive, must match case used in the database	Table: df_table Field: table_name
configurationName	Name of the data configuration in the AddDataConfiguration dataConfiguration category with which this set of data filters is associated.	N/A

Element	Description	System table
jdbcUrl	The URL reference for the customer database containing the table on which you want to base the data filters.	N/A
jdbcUser	The user name of an account with access to the customer database.	N/A
jdbcPassword	The password of the account with access to the customer database.	N/A
jdbcDriverClass	The name of the JDBC driver that provides connectivity to the customer database.	N/A
jdbcDriverClassPath string	The path of the JDBC driver.	N/A

GenerateDataFilters | fixedFields | FixedField

This group of elements is used to specify the optional fields and the values that limit the records considered when the data filter generation utility looks for unique combinations of values to define a set of data filters.

Element	Description	System table
expression	One item of the data in the field that will be used in a WHERE clause when creating data filters and retrieving data for a user assigned to this filter. If the database is case-sensitive, must match case used in the database.	Table: df_field_constraint Field: expression
logicalFieldName	Name of the logical field in the AddLogicalFields logicalFields LogicalField category. This name appears as a label in the advanced search field in the Data Filter user interface in the Marketing Platform.	Table: df_logical_field Field: logical_name
physicalFieldName	Physical name of the field. If the database is case-sensitive, must match case used in the database.	N/A

GenerateDataFilters | profileField | ProfileField

This group of elements is used to specify fields whose unique combinations of values are used to define a set of data filters.

Element	Description	System table
logicalFieldName	Name of the logical field in the AddLogicalFields logicalField LogicalField category.	Table: df_logical_field Field: logical_name

Element	Description	System table
physicalFieldName	Physical name of the field. If the database is case-sensitive, must match case used in the database.	N/A

AddDataTable | dataTable

This group of elements is used to assign IDs to customer tables.

Element	Description	System table
id	Unique ID that you assign to this table.	N/A
name	Physical name of the customer table that you want to secure. If the database is case-sensitive, must match case used in the database.	Table: df_table Field: table_name

AddDataTable | dataTable | fields | TableField

This group of elements is used to map physical fields in the customer table to logical fields that you have defined.

Element	Description	System table
name	Physical name of the field in the customer table. If the database is case-sensitive, must match case used in the database.	Table: df_table_field Field: physical_name
logicalFieldId	ID of the logical field in the AddLogicalFields logicalField LogicalField category.	N/A

AddAudience | audience

This group of elements is used to specify the name assigned in Campaign to an audience level used in the Campaign family of products.

Element	Description	System table
id	Unique ID that you assign to this audience.	N/A
name	Name of the audience as specified in Campaign.	Table: df_audience Field: audience name
		ricia. addictice_flame

AddAudience | audience | fields | AudienceField

This group of elements is used to specify the field or fields in your customer tables that are used as audience fields.

Element	Description	System table
logicalFieldId	ID of the logical field in the AddLogicalFields logicalField category. If used with an application in the Campaign family, must be the same logical name used in Campaign.	N/A
fieldOrder	For future use. Set the value to 0.	N/A

addAudienceTableAssociations | addAudienceTableAssociation | audienceTableAssociation

This group of elements is used to associate pairs of audience fields and tables with data configurations. Create an association for every audience field.

Element	Description	System table
audienceId	ID of the audience to be used in this association. Must be an ID value in an AddAudience audience category.	N/A
tableId	ID of the table to be used in this association. Must be an ID value in an AddDataTable dataTable category. The table must be one that contains the audience specified in the audienceID element. If the audience exists in more than one table, create multiple associations.	N/A
configId	ID of the data configuration to be used in this association. Must be an ID value in an AddDataConfiguration dataConfiguration category.	N/A

AddDataFilters | dataFilters | DataFilter

This group of elements is used to create a data filter.

Element	Description	System table
configId	ID of the data configuration in the AddDataConfiguration dataConfiguration category with which this filter is associated.	N/A
id	Unique ID that you assign.	N/A

AddDataFilters | dataFilters | DataFilter | fieldConstraints | **FieldConstraint**

This group of elements is used to specify the data in a field used to define a data filter.

Element	Description	System table
logicalFieldId	ID of the logical field in the AddLogicalFields logicalFields LogicalField category.	N/A
expression	One item of the data in a field that is used in a WHERE clause when retrieving data for a user assigned to this filter. If the database is case-sensitive, must match case used in the database.	Table: df_field_constraint Field: expression

Example: Automatically generating a set of data filters

Jim needs to create a set of data filters based on countries, cities, and states.

In Campaign, the customer tables have already been mapped and audience levels have been defined.

Obtaining the JDBC driver

Jim knows that his company's customer database is Microsoft SQL server. He downloads the appropriate Type 4 driver and places it on the machine where the Marketing Platform is installed, making a note of the name and path of the driver.

- JDBC driver class name com.microsoft.sqlserver.jdbc.SQLServerDriver
- JDBC driver path C:\tools\Java\MsJdbc\sqljdbc.jar

Obtaining information

Jim obtains the name, host, and port of the customer database, and the credentials he needs to connect to it.

- Database name Customers
- Database host name companyHost
- Database port 1433
- User name sa
- Password myPassword

Jim looks at the data in his company's customer database and sees that customers exist in every country, city, and state for which he wants to create a data filter. He determines that the Geographic table contains the fields he needs to specify fixed fields and profile fields for the data filters.

The following table illustrates the information Jim obtains about the customer fields and their Campaign mappings.

Table 19. Geographic table fields

Fields	Fields		
(Physical name)	(Name in Campaign)	Data	Data type
country	Country	• USA • France	java.lang.String
		Britain	

Table 19. Geographic table fields (continued)

Fields	Fields		
(Physical name)	(Name in Campaign)	Data	Data type
city	City	A finite set of distinct cities	java.lang.String
state	State	A finite set of distinct states (or otherwise named regions, depending on country)	java.lang.String
hh_id	HouseholdID	N/A	java.lang.Long
indiv_id	IndividualID	N/A	java.lang.Long

Jim learns that the audience names used in Campaign are household and individual. He notes that the Geographic table contains two audience fields.

- The hh id field corresponds to the household audience.
- The indiv_id field in the Geographic table corresponds to the individual audience.

Because Jim must create one logical field for each audience, and one for each of the fixed and profile fields, he knows he needs a total of five logical fields.

Jim also knows he needs to group the data filters in a data configuration. He decides to name his data configuration Geographic.

Jim is now ready to create the XML.

Creating the XML

Here is the XML that Jim creates. Values based on the information he obtained or decided to use are shown in **bold** .

```
<?xml version="1.0" encoding="UTF-8"?>
<ExecuteBatch>
<name>SeedData</name>
<operations>
<!-- Create the data configuration that groups related Data Filters -->
<ExecuteBatch>
<name>DataFilters</name>
<operations>
<AddDataConfiguration>
<dataConfiguration>
<id>1</id>
<name>Geographic</name>
</dataConfiguration>
</AddDataConfiguration>
</operations>
</ExecuteBatch>
<!-- Add logical fields used to define data filters -->
<AddLogicalFields>
<logicalFields>
<LogicalField>
```

<id>1</id>

```
<name>Countrv</name>
<type>java.lang.String</type>
</LogicalField>
<LogicalField>
<id>2</id>
<name>City</name>
<type>java.lang.String</type>
</LogicalField>
<LogicalField>
<id>3</id>
<name>State</name>
<type>java.lang.String</type>
</LogicalField>
<LogicalField>
<id>4</id>
<name>HouseholdID</name>
<type>java.lang.Long</type>
</LogicalField>
<LogicalField>
<id>5</id>
<name>IndividualID</name>
<type>java.lang.Long</type>
</LogicalField>
</logicalFields>
</AddLogicalFields>
<!-- Provide information needed to generate data filters -->
<GenerateDataFilters>
<!-- Specify the table to be scanned for unique combinations of values
from which data filters will be defined. -->
<tableName>Geographic</tableName>
<!-- Identify the data configuration
with which generated data filters will be associated. -->
<configurationName>Geographic</configurationName>
<!-- Specify the data source connection information. -->
<jdbcUrl>jdbc:sqlserver://localhost:1433;databaseName=Customers</jdbcUrl>
<jdbcUser>sa</jdbcUser>
<jdbcPassword>myPassword</jdbcPassword>
<idbcDriverClass>
com.microsoft.sqlserver.jdbc.SQLServerDriver</jdbcDriverClass>
<jdbcDriverClassPath>
<string>C:\tools\Java\MsJdbc\sqljdbc.jar</string>
</jdbcDriverClassPath>
<!-- Specify the fixed fields. -->
<fixedFields>
<FixedField>
<expression>USA</expression>
<logicalFieldName>Country</logicalFieldName>
<physicalFieldName>country</physicalFieldName>
</FixedField>
</fixedFields>
<fixedFields>
<FixedField>
<expression>France</expression>
<logicalFieldName>Country</logicalFieldName>
<physicalFieldName>country</physicalFieldName>
</FixedField>
</fixedFields>
<fixedFields>
<FixedField>
<expression>Britain</expression>
<logicalFieldName>Country</logicalFieldName>
<physicalFieldName>country</physicalFieldName>
</FixedField>
</fixedFields>
```

```
<!-- Specify the profile fields. -->
fileFields>
<ProfileField>
<logicalFieldName>State</logicalFieldName>
<physicalFieldName>state</physicalFieldName>
</ProfileField>
<ProfileField>
<logicalFieldName>City</logicalFieldName>
<physicalFieldName>city</physicalFieldName>
</ProfileField>
</profileFields>
</GenerateDataFilters>
<!-- Map physical to logical fields -->
<ExecuteBatch>
<name>addTables</name>
<operations>
<AddDataTable>
<dataTable>
<id>1</id>
<name>Geographic</name>
<fields>
<TableField>
<name>country</name>
<logicalFieldId>1</logicalFieldId>
</TableField>
<TableField>
<name>city</name>
<logicalFieldId>2</logicalFieldId>
</TableField>
<TableField>
<name>state</name>
<logicalFieldId>3</logicalFieldId>
</TableField>
<TableField>
<name>hh_id</name>
<logicalFieldId>4</logicalFieldId>
</TableField>
<TableField>
<name>indiv id</name>
<logicalFieldId>5</logicalFieldId>
</TableField>
</fields>
</dataTable>
</AddDataTable>
</operations>
</ExecuteBatch>
<!--Add Audiences-->
<ExecuteBatch>
<name>addAudiences</name>
<operations>
<AddAudience>
<audience>
<id>1</id>
<name>household</name>
<fields>
<AudienceField>
<logicalFieldId>4</logicalFieldId>
<fieldOrder>0</fieldOrder>
</AudienceField>
</fields>
</audience>
</AddAudience>
<AddAudience>
<audience>
<id>2</id>
<name>individual</name>
```

```
<fields>
<AudienceField>
<logicalFieldId>5</logicalFieldId>
<fieldOrder>0</fieldOrder>
</AudienceField>
</fields>
</audience>
</AddAudience>
</operations>
</ExecuteBatch>
<!-- Associate table-audience pairs with data configuration) -->
<ExecuteBatch>
<name>addAudienceTableAssociations
<operations>
<AddAudienceTableAssociation>
<audienceTableAssociation>
<audienceId>1</audienceId>
<tableId>1</tableId>
<configId>1</configId>
</audienceTableAssociation>
</AddAudienceTableAssociation>
<AddAudienceTableAssociation>
<audienceTableAssociation>
<audienceId>2</audienceId>
<tableId>1</tableId>
<configId>1</configId>
</audienceTableAssociation>
</AddAudienceTableAssociation>
</operations>
</ExecuteBatch>
</operations>
</ExecuteBatch>
```

Populating the system tables

Jim has named his data filter XML file geographicDataFilters.xml and saved it in the tools/bin directory under his Marketing Platform installation. He opens a command prompt and uses the datafilteringScriptTool utility to populate the data filter system tables.

The utility creates many data filters. In each data filter, the criteria are a country (the fixed field) and a unique combination of city and state obtained when the utility queried the database for records containing the fixed field value. All unique combinations of city and state are used for each country specified as a fixed field.

Assigning users and groups to the data filters

Finally, Jim logs in to the Marketing Platform with an account that has Admin access in the Marketing Platform.

He knows that groups have already been set up in the Marketing Platform with users assigned by city.

He goes to the Data Filter section and sees that the country, city, and state values from his data filters are available in the advanced search for data filters. He performs a search for a data filter, using Boston, a city in the USA, as a search criterion. The data filter for Boston appears in the search results.

Next, Jim performs a search for the Boston user group, which has been set up in the Marketing Platform to hold all field marketers who are responsible for marketing to customers in Boston. The Boston group appears in the search results. Jim then selects the group and the data filter in the search results, and assigns the group to the data filter by clicking the Assign button.

He continues to perform searches for data filters and groups until all assignments are completed.

How to add data filters after the initial set has been created

You can continue to add data filters after you have created the initial set. For example, you might create a set of data filters based on countries and their city/state combinations, and later decide to create another set based on zip codes.

You can obtain the XML for additional data filters in either of the following ways.

- Modify your original XML file to add new filters. When you seed the database using the dataFilteringScriptTool utility, the Marketing Platform creates only the new data filters.
- Create an XML file specifying new data filters. When you seed the database using the dataFilteringScriptTool utility, existing data filters are not deleted.

Once you have created the XML, populate the data filter tables and assign users and groups as described in this guide.

Chapter 15. Managing Data Filters

IBM Unica Marketing administrators can specify data access restrictions in IBM Unica products based on configurable data filters. Data filters make it possible to restrict the customer data that an IBM Unica user can view and work with in IBM Unica applications.

To work with data filters in the **Settings > Data Filters** pages, the following must be true.

- The data filters must be set up in the Marketing Platform system tables, as described in Chapter 14, "Setting Up Data Filters," on page 149.
- You must log in as a user with the **Administer Data Filters** page permission. By default, the **AdminRole** role has this permission.

Restricting data access through user and group assignments

To restrict data access for individual users or groups of users, you assign them to data filters. All users and groups that exist in IBM Unica Marketing are available for assignment to data filters. You can assign multiple users and groups to a single data filter, and you can also assign a user or a group to multiple data filters.

Note: Groups do not acquire the data filter assignments of their parent groups.

About advanced search

The IBM Unica Marketing provides a user interface for assigning users and groups to data filters. This user interface relies on an advanced search feature to obtain lists of users, groups, and data filters. You can select users and groups from these lists and assign them to data filters that you select.

Data filter search

The search feature for data filters provides search criteria that are the same as the criteria specified when the data filters were set up. For example, suppose a set of data filters is based on a field containing the following data relating to sales territories.

- Africa
- Asia
- Europe
- Middle East
- North America

The data filter advanced search would provide this data in a drop-down list from which you can select when searching for data filters.

User and group search

The advanced search feature for users and groups provides a text field where you can enter text for the search to match.

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When a tab containing the user and group advanced search first loads, there is a wildcard (*) in both the User and Group text fields. A search performed using this wildcard returns all records.

If you delete the wildcard and do not enter any other text, leaving the field blank, no records are returned. For example, if you perform a search with the User text field blank and an asterisk in the Group text field, only groups would be listed in the results.

On the View Assignments tab, if you leave both the User and Group text fields blank, no records are returned regardless of what data filter criteria are selected.

When you enter text in the field, the search matches the characters you enter in the text field, in the order you enter them. For example, to obtain a group named North America, you could enter any letter or group of letters (in order) that occurs in the name. You would obtain North America in the results if you entered "north" or "h", but not if you entered "htron."

The search is not case-sensitive. That is, "North" is the same as "north."

Managing data filter assignments

This section describes how configure data filters and manage data filter assignments.

To view assigned data filters

- 1. Log in to the Marketing Platform as a user with the Marketing Platform AdminRole role and click Data Filtering.
 - The Data Filters page displays.
- 2. Click View Assigned Data Filters.
- 3. Perform an advanced search for assigned data filters to obtain search results.

A list of data filters that meet the criteria is displayed.

To assign users and groups to data filters

- 1. Log in to the Marketing Platform as a user with the Marketing Platform AdminRole role and click **Settings** > **Data Filters**.
 - The Data Filters page displays.
- 2. Click Assign Users or Groups.
- 3. Perform an advanced search for data filters to obtain a list of data filters.
- 4. Perform an advanced search for the users, groups, or both to obtain a list of users and groups.
- 5. From your search results lists, select data filters and the users and groups you want to assign to them.
- 6. Click Assign.

The selected users and groups are assigned to the selected data filters.

To remove data filter assignments

- 1. Log in to the Marketing Platform as a user with the Marketing Platform AdminRole role and click **Settings** > **Data Filters**.
 - The Data Filters page displays.

- 2. Click View Assigned Data Filters.
- 3. Perform an advanced search for assigned data filters to obtain search results from which you want to select.
- 4. From your search results list, select the data filters whose assignments you want to delete.
- 5. Click Unassign.

The selected assignments are deleted. The data filters themselves are not deleted.

Chapter 16. IBM Unica Marketing Platform Logs

You can use the system log to track usage and detect potential security problems. The system log can help you detect erroneous or malicious behavior as it occurs.

About the system log

You should check the system log first if the Marketing Platform application malfunctions or if you think a break-in might have occurred or been attempted.

The system log contains the following information.

- Configuration information and all errors and debugging information for the Marketing Platform.
- A record of key events as they occur on the Marketing Platform server (requests, grants, revokes, and failures).

About the configuration settings displayed in the system log

The first part of the system log shows the configuration settings that are read into the system from the uasm.conf configuration file on startup. Viewing the configuration settings in the log file is an easy way to check settings that control properties for IBM Unica Marketing passwords, the Marketing Platform authentication data store, the Marketing Platform web server root, and the system log and system audit trail.

Note: If a problem occurs when the system attempts to write to the system log file, the system writes to stdout (command line) instead of to a file.

System log entry format

The system log entries are in the following format.

Timestamp | Event severity level | Message

- **Timestamp** The time the event occurred.
- Event Severity Level The logging level of the event.
- Message Description of the event. If the entry is a request to the server, the message typically contains the function called by the request. Response entries record the results of the requests.

Configuring the system log

You configure the system log using the log4j.properties file, located by default in the conf directory under your Marketing Platform installation. Changes to this file go into effect within 30 seconds after the file is saved.

Default system log settings

By default, the system log is configured as follows:

Log file name: platform.log

Log directory: Unica/Platform/logs

• Log level: WARN

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- Number of backups: 1
- Maximum size of log files: 10MB

Note the following.

- If you increase the number of backups or size of the log files, verify that the machine on which the logs are stored has sufficient memory.
- Setting the logging level higher than the default might affect performance.

About logging levels in the system log

The possible logging levels in the system log are as follows, in ascending order.

- ERROR
- WARN
- INFO
- DEBUG
- TRACE

The higher levels include the information contained in all of the lower levels. For example, setting the level to DEBUG enables the DEBUG, INFO, WARN and ERROR traces.

If the logging level is set to DEBUG, the response messages include any SQL queries performed against the Marketing Platform data store.

Setting logging levels for the whole Marketing Platform system

You can change the logging level for all components of Marketing Platform by uncommenting the desired line in the Examples section of the file. To uncomment a line, remove the # character at the beginning of the line. If you make this change, be sure to add the # symbol to the beginning of the line specifying the previous logging level.

Setting logging levels for Marketing Platform components

You can set the logging level in the system log for specific components of the Marketing Platform. These components include:

- Localization
- · User and group processing
- · Data migration
- LDAP integration
- Authentication (server-side processing)
- The Configuration pages
- Database access
- Various third-party libraries (for example, ibatis)

By default, the component-level logging is turned off. To debug a specific module, remove the # character at the start of each line of the module in the log4j.properties file.

Where to find more information about log4j

You can find additional information about log4j in the following ways.

• See comments in the log4j.properties file.

• See http://logging.apache.org/log4j/docs/documentation.html.

Chapter 17. Configuration Process Checklists

Configuring data filters using the automatic generation method is a multi-step process. The following procedure provides an overview of the process, which is described in detail elsewhere in this guide.

- 1. "Plan your data filter criteria (automatic generation)" on page 160 Decide what customer data you want to secure.
- 2. "Obtain the JDBC driver for your database" on page 161

 Obtain the Type 4 JDBC driver that provides connectivity to the database containing the table on which you want to base your data filters.
- 3. "Obtain required information (automatic generation)" on page 161 Gather the required database information, and, if you plan to use the data filters with an application in the Campaign family, the Campaign-related information.
- 4. "Create the XML to specify data filters (automatic generation)" on page 162 Create the XML file that specified the customer data used as criteria in each data filter.
- 5. "Populate the data filter system tables" on page 152
 Run the datafilteringScriptToool utility, which uses your XML to populate the Marketing Platform system tables that are used for data filters.
- 6. "Assign users and groups to data filters" on page 152

 Use the IBM Unica Marketing data filter user interface to perform searches for users, groups, and data filters and then select items from the search results and assign them.

Configuration process checklist (manual specification of data filters)

Configuring data filters using the manual specification method is a multi-step process. The following procedure provides an overview of the process, which is described in detail elsewhere in this guide.

- 1. "Plan your data filter criteria (manual generation)" on page 151 Decide what customer data you want to secure.
- 2. "Obtain required information (manual specification)" on page 151 Gather the required database information, and, if you plan to use the data filters with an application in the Campaign family, the Campaign-related information.
- 3. "Create the XML to specify data filters (automatic generation)" on page 162 Create the XML file that specified the customer data used as criteria in each data filter.
- 4. "Populate the data filter system tables" on page 152
 Run the datafilteringScriptToool utility, which uses your XML to populate the Marketing Platform system tables that are used for data filters.
- 5. "Assign users and groups to data filters" on page 152

 Use the IBM Unica Marketing data filter user interface to perform searches for users, groups, and data filters and then select items from the search results and assign them.

Configuration process checklist (Active Directory integration)

Integrating IBM Unica Marketing with Windows Active Directory is a multi-step process. The following procedure provides an overview of the process, which is described in detail elsewhere in this guide.

- 1. "Obtain required information" on page 110 Obtain information about your Windows Active Directory server, which is needed for integration with IBM Unica Marketing.
- "Plan group membership and mapping" on page 111 If you are using group based synchronization, identify or create the groups in the Marketing Platform to which you will map your Active Directory groups.
- "Store directory server credentials in the Marketing Platform" on page 111 If your directory server does not allow anonymous access (the most common configuration), configure an IBM Unica Marketing user account to hold a directory server administrator user name and password.
- 4. "Configure integration in IBM Unica Marketing" on page 112 Configure the Marketing Platform for integration by setting values on the Configuration page.
- 5. "Test synchronization" on page 114 Verify that users are imported as expected, and if you are using group based synchronization, verify that users and groups are synchronizing properly.
- "Set up an Active Directory user with PlatformAdminRole permissions" on page 114
 - Set up administrator access to the Marketing Platform, required when Windows integrated login is enabled.
- 7. "Set security mode to Windows Integrated Login" on page 115 Set the security mode values on the Configuration page.
- 8. "Assign roles to mapped groups" on page 115 If you are using group based synchronization, implement your planned group application access.
- 9. "Restart the web application server" on page 115 This step is required to ensure that all of your changes are applied.
- "Test login as an Active Directory user" on page 115 Verify that you can log in to IBM Unica Marketing as an Active Directory user.

Configuration process checklist (LDAP integration)

Integrating IBM Unica Marketing with LDAP is a multi-step process. The following procedure provides an overview of the process, which is described in detail elsewhere in this guide.

- 1. "Obtain required information" on page 110 Obtain information about your LDAP server, which is needed for integration with IBM Unica Marketing.
- 2. "Plan group membership and mapping" on page 111 If you are using group based synchronization, identify or create the groups in the Marketing Platform to which you will map your LDAP groups.
- "Store directory server credentials in the Marketing Platform" on page 111

If your directory server does not allow anonymous access (the most common configuration), configure an IBM Unica Marketing user account to hold a directory server administrator user name and password.

- "Configure integration in IBM Unica Marketing" on page 112
 Configure the Marketing Platform for integration by setting values on the Configuration page.
- 5. "Test synchronization" on page 114

Verify that users are imported as expected, and if you are using group based synchronization, verify that users and groups are synchronizing properly.

- 6. "Set security mode to LDAP" on page 124
 Set the security mode values in the Configuration page.
- "Assign roles to mapped groups" on page 115
 If you are using group based synchronization, implement your planned group application access.
- 8. "Restart the web application server" on page 115

 This step is required to ensure that all of your changes are applied.
- 9. "Test login as an LDAP user" on page 125 Verify that you can log in to IBM Unica Marketing as an LDAP user.

Configuration process checklist (Web access control integration)

Integrating IBM Unica Marketing with a web access control system is a multi-step process. The following procedure provides an overview of the process, which is described in detail elsewhere in this guide.

- "Perform LDAP integration" on page 132
 Follow instructions for LDAP integration, stopping at the "Test synchronization" step.
- "Configure web access control integration in IBM Unica Marketing" on page 132
 - Set web access control integration properties on the Configuration page.
- 3. "Restart the web application server" on page 115

 This step is required to ensure that all of your changes are applied.
- 4. "Test web access control synchronization and IBM Unica Marketing login" on page 133

Verify that users and groups synchronize correctly in your web access control system and that you can log in to IBM Unica Marketing.

Configuration process checklist (SSL)

Configuring SSL in IBM Unica Marketing is a multi-step process. The following procedure provides an overview of the process, which is described in detail elsewhere in this chapter.

- "Obtain or create certificates" on page 138
 Obtain or create certificates if you prefer not to use the default certificates provided by IBM Unica and your application server.
- 2. "Configure your web application servers for SSL" on page 141
 Enable an SSL port in every application server where an IBM Unica application is deployed. If you are not using the application server default certificate, configure it to use your certificate.

- 3. "Configure IBM Unica Marketing for SSL" on page 141 Set configuration properties in IBM Unica Marketing.
- 4. "Verify your SSL configuration" on page 146
 Log in to each of your IBM Unica Marketing applications.

Chapter 18. IBM Unica Marketing Platform Utilities and SQL Scripts

This section provides an overview of the Marketing Platform utilities, including some details that apply to all of the utilities and which are not included in the individual utility descriptions.

Location of utilities

Marketing Platform utilities are located in the tools/bin directory under your Marketing Platform installation.

List and descriptions of utilities

The Marketing Platform provides the following utilities.

- "The configTool utility" on page 187 imports, exports, and deletes configuration settings, including product registrations
- "The datafilteringScriptTool utility" on page 191 creates data filters
- "The encryptPasswords utility" on page 192 encrypts and stores passwords
- "The partitionTool utility" on page 194 creates database entries for partitions
- "The populateDb utility" on page 196 populates the Marketing Platform database
- "The restoreAccess utility" on page 196 restores a user with the platformAdminRole role
- "The scheduler_console_client utility" on page 198 lists or kicks off IBM Unica Scheduler jobs configured to listen for a trigger

Prerequisites for running Marketing Platform utilities

The following are prerequisites for running all Marketing Platform utilities.

- Run all utilities from the directory where they are located (by default, the tools/bin directory under your Marketing Platform installation).
- On UNIX, the best practice is to run the utilities with the same user account that runs the application server on which Marketing Platform is deployed. If you run a utility with a different user account, adjust the permissions on the platform.log file to allow that user account to write to it. If you do not adjust permissions, the utility is not able to write to the log file and you might see some error messages, although the tool should still function correctly.

Troubleshooting connection issues

If a Marketing Platform utility fails to complete its task successfully, you can use the following information to help you resolve the issue.

- All of the Marketing Platform utilities except encryptPasswords interact with the Marketing Platform system tables. To connect to the system table database, these utilities use the following connection information, which is set by the installer using information provided when the Marketing Platform was installed.
 - JDBC driver name
 - JDBC connection URL (which includes the host, port, and database name)
 - Data source login

Data source password (encrypted)

This information is stored in the jdbc.properties file, located in the tools/bin directory under your Marketing Platform installation. Check the values in this file to ensure they are correct for your environment.

 In addition, Marketing Platform utilities rely on the JAVA_HOME environment variable, set either in the setenv script located in the tools/bin directory of your Marketing Platform installation, or on the command line.

The Marketing Platform installer should have set this variable automatically in the setenv script, but it is a good practice to verify that the JAVA_HOME variable is set if you have a problem running a utility. The JDK must be the Sun version (not, for example, the JRockit JDK available with WebLogic).

Wherever it is set, the JAVA_HOME environment variable must point to the 1.6 version of the Sun JRE.

If your JAVA_HOME environment variable points to an incorrect JRE, then you must unset the JAVA_HOME variable before you run the IBM Unica installers. You can do this as follows.

- Windows: In a command window, enter set JAVA_HOME=leave empty and press return key
- *NIX-type systems: In the terminal, enter export JAVA_HOME=leave empty and press return key

Do this before you invoke the Marketing Platform utility you want to run.

Special characters

Characters that are designated as reserved characters in the operating system must be escaped. Consult your operating system documentation for a list of reserved characters and how to escape them.

Standard options in Marketing Platform utilities

The following options are available in all Marketing Platform utilities.

-l logLevel

Set the level of log information displayed in the console. Options are high, medium, and low. The default is low.

-L

Set the locale for console messages. The default locale is en_US. The available option values are determined by the languages into which the Marketing Platform has been translated. Specify the locale using the ICU locale ID according to ISO 639-1 and ISO 3166.

-h

Display a brief usage message in the console.

-m

Display the manual page for this utility in the console.

- V

Running Marketing Platform utilities on additional machines

On the machine where the Marketing Platform is installed, you can run the Marketing Platform utilities without any additional configuration. However, you might want to run the utilities from another machine on the network. This procedure describes the steps required to do this.

To set up Marketing Platform utilities on additional machines

- 1. Ensure that the machine on which you perform this procedure meets the following prerequisites.
 - The correct JDBC driver must exist on the machine or be accessible from it.
 - The machine must have network access to the Marketing Platform system tables.
 - The Java runtime environment must be installed on the machine or be accessible from it.
- 2. Gather the following information about the Marketing Platform system tables.
 - The fully qualified path for the JDBC driver file or files on your system.
 - The fully qualified path to an installation of the Java runtime environment. The default value in the installer is the path to the 1.5 version of the JRE that the installer places under your IBM Unica installation directory. You can accept this default or specify a different path.
 - Database type
 - · Database host
 - · Database port
 - Database name/system ID
 - · Database user name
 - · Database password
- 3. Run the IBM installer and install the Marketing Platform.

Enter the database connection information that you gathered for the Marketing Platform system tables. If you are not familiar with the IBM installer, see the Campaign or Marketing Operations installation guide.

You do not have to deploy the Marketing Platform web application.

Reference: Marketing Platform utilities

This section describes the Marketing Platform utilities, with functional details, syntax, and examples.

The configTool utility

The properties and values on the Configuration page are stored in the Marketing Platform system tables. The configTool utility imports and exports configuration settings to and from the Marketing Platform system tables.

When to use configTool

You might want to use configTool for the following reasons.

- To import partition and data source templates supplied with Campaign or Attribution Modeler, which you can then modify and/or duplicate using the Configuration page.
- To register (import configuration properties for) IBM Unica Marketing products, if the product installer is unable to add the properties to the database automatically.
- To export an XML version of configuration settings for backup or to import into a different installation of IBM Unica Marketing.
- To delete categories that do not have the **Delete Category** link. You do this by using configTool to export your configuration, then manually deleting the XML that creates the category, and using configTool to import the edited XML.

Important: This utility modifies the usm_configuration and usm_configuration_values tables in the Marketing Platform system table database, which contain the configuration properties and their values. For best results, either create backup copies of these tables, or export your existing configurations using configTool and back up the resulting file so you have a way to restore your configuration if you make an error when using configTool to import.

Valid product names

The configTool utility uses product names as parameters with the commands that register and unregister products, as described later in this section. With the 8.0.0 release of IBM Unica Marketing, many product names changed. However, the names recognized by configTool did not change. The valid product names for use with configTool are listed below, along with the current names of the products.

Product name	Name used in configTool
Marketing Platform	Manager
Campaign	Campaign
Distributed Marketing	Collaborate
eMessage	emessage
Interact	interact
Optimize	Optimize
Marketing Operations	Plan
CustomerInsight	Insight
NetInsight	NetInsight
PredictiveInsight	Model
Leads	Leads
Attribution Modeler	AttributionModeler
Interaction History	InteractionHistory

Syntax

```
configTool -d -p "elementPath" [-o]
configTool -i -p "parent ElementPath" -f importFile [-o]
configTool -x -p "elementPath" -f exportFile
```

```
configTool -r productName -f registrationFile [-o]
```

configTool -u productName

Commands

-d -p "elementPath"

Delete configuration properties and their settings, specifying a path in the configuration property hierarchy.

The element path must use the internal names of categories and properties, which you can obtain by going to the Configuration page, selecting the wanted category or property, and looking at the path displayed in parentheses in the right pane. Delimit a path in the configuration property hierarchy using the | character, and surround the path with double quotes.

Note the following.

- Only categories and properties within an application may be deleted using this
 command, not whole applications. Use the -u command to unregister a whole
 application.
- To delete categories that do not have the Delete Category link on the Configuration page, use the -o option.

-i -p "parentElementPath" -f importFile

Import configuration properties and their settings from a specified XML file.

To import, you specify a path to the parent element under which you want to import your categories. The configTool utility imports properties *under* the category you specify in the path.

You can add categories at any level below the top level, but you cannot add a category at same level as the top category.

The parent element path must use the internal names of categories and properties, which you can obtain by going to the Configuration page, selecting the desired category or property, and looking at the path displayed in parentheses in the right pane. Delimit a path in the configuration property hierarchy using the | character, and surround the path with double quotes.

You can specify an import file location relative to the tools/bin directory or you can specify a full directory path. If you specify a relative path or no path, configTool first looks for the file relative to the tools/bin directory.

By default, this command does not overwrite an existing category, but you can use the -o option to force an overwrite.

-x -p "elementPath" -f exportFile

Export configuration properties and their settings to an XML file with a specified name.

You can export all configuration properties or limit the export to a specific category by specifying a path in the configuration property hierarchy.

The element path must use the internal names of categories and properties, which you can obtain by going to the Configuration page, selecting the wanted category or property, and looking at the path displayed in parenthesis in the right pane. Delimit a path in the configuration property hierarchy using the | character, and surround the path with double quotes.

You can specify an export file location relative to the current directory or you can specify a full directory path. If the file specification does not contain a separator (/ on Unix, / or \ on Windows), configTool writes the file to the tools/bin directory under your Marketing Platform installation. If you do not provide the xml extension, configTool adds it.

-r productName -f registrationFile

Register the application. The registration file location may be relative to the tools/bin directory or may be a full path. By default, this command does not overwrite an existing configuration, but you can use the -o option to force an overwrite. The *productName* parameter must be one of those listed above.

Note the following.

- When you use the -r option, the registration file must have <application> as the first tag in the XML.
 - Other files may be provided with your product that you can use to insert configuration properties into the Marketing Platform database. For these files, use the -i option. Only the file that has the <application> tag as the first tag can be used with the -r option.
- The registration file for the Marketing Platform is named Manager_config.xml, and the first tag is <Suite>. To register this file on a new installation, use the populateDb utility, or rerun the Marketing Platform installer as described in the IBM Unica Marketing Platform Installation Guide.
- After the initial installation, to reregister products other than the Marketing Platform, use configTool with the -r option and -o to overwrite the existing properties.

-u productName

Unregister an application specified by <code>productName</code> . You do not have to include a path to the product category; the product name is sufficient. The <code>productName</code> parameter must be one of those listed above. This removes all properties and configuration settings for the product.

Options

-0

When used with -i or -r, overwrites an existing category or product registration (node).

When used with -d allows you to delete a category (node) that does not have the **Delete Category** link on the Configuration page.

Examples

• Import configuration settings from a file named Product_config.xml located in the conf directory under the Marketing Platform installation.

```
configTool -i -p "Affinium" -f Product config.xml
```

- Import one of the supplied Campaign data source templates into the default Campaign partition, partition1. The example assumes that you placed the Oracle data source template, OracleTemplate.xml, in the tools/bin directory under the Marketing Platform installation.
 - configTool -i -p "Affinium Campaign partitions partition1 dataSources" -f OracleTemplate.xml
- Export all configuration settings to a file named myConfig.xml located in the D:\backups directory.

```
configTool -x -f D:\backups\myConfig.xml
```

 Export an existing Campaign partition (complete with data source entries), save it to a file named partitionTemplate.xml, and store it in the default tools/bin directory under the Marketing Platform installation.

```
configTool -x -p "Affinium Campaign partitions partition1" -f
partitionTemplate.xml
```

• Manually register an application named productName, using a file named app config.xml located in the default tools/bin directory under the Marketing Platform installation, and force it to overwrite an existing registration of this application.

```
configTool -r product Name -f app config.xml -o
```

• Unregister an application named productName. configTool -u productName

The datafilteringScriptTool utility

The datafilteringScriptTool utility reads an XML file to populate the data filtering tables in the Marketing Platform system table database.

Depending on how you write the XML, you can use this utility in two ways.

- Using one set of XML elements, you can auto-generate data filters based on unique combinations of field values (one data filter for each unique combination).
- Using a slightly different set of XML elements, you can specify each data filter that the utility creates.

See IBM Unica Marketing Platform the Administrator's Guide for information about creating the XML.

When to use datafilteringScriptTool

You must use datafilteringScriptTool when you create new data filters.

Prerequisites

The Marketing Platform must be deployed and running.

Using datafilteringScriptTool with SSL

When the Marketing Platform is deployed using one-way SSL you must modify the datafilteringScriptTool script to add the SSL options that perform handshaking. To modify the script, you must have the following information.

• Truststore file name and path

• Truststore password

In a text editor, open the datafilteringScriptTool script (.bat or .sh) and find the lines that look like this (examples are Windows version).

:callexec

"%JAVA_HOME%\bin\java" -DUNICA_PLATFORM_HOME="%UNICA_PLATFORM_HOME%"

com.unica.management.client.datafiltering.tool.DataFilteringScriptTool %*

Edit these lines to look like this (new text is in **bold**). Substitute your truststore path and file name and truststore password for myTrustStore.jks and myPassword.

:callexec

SET SSL_OPTIONS=-Djavax.net.ssl.keyStoreType="JKS"

-Djavax.net.ssl.trustStore="C:\security\myTrustStore.jks"

-Djavax.net.ssl.trustStorePassword=myPassword

"%JAVA_HOME%\bin\java" -DUNICA_PLATFORM_HOME="%UNICA_PLATFORM_HOME%"
%SSL_OPTIONS%

com.unica.management.client.datafiltering.tool.DataFilteringScriptTool %*

Syntax

datafilteringScriptTool -r pathfile

Commands

-r path_file

Import data filter specifications from a specified XML file. If the file is not located in the tools/bin directory under your installation, provide a path and enclose the path_file parameter in double quotation marks.

Example

Use a file named collaborateDataFilters.xml, located in the C:\unica\xml directory, to populate the data filter system tables.
 datafilteringScriptTool -r "C:\unica\xml\collaborateDataFilters.xml"

The encryptPasswords utility

The encryptPasswords utility is used to encrypt and store either of two passwords that the Marketing Platform uses, as follows.

- The password that the Marketing Platform uses to access its system tables. The utility replaces an existing encrypted password (stored in the jdbc,properties file, located in the tools\bin directory under your Marketing Platform installation) with a new one.
- The keystore password used by the Marketing Platform when it is configured to use SSL with a certificate other than the default one supplied with the Marketing

Platform or the web application server. The certificate can be either a self-signed certificate or a certificate from a certificate authority.

When to use encryptPasswords

Use encryptPasswords as for the following reasons.

- When you change the password of the account used to access your Marketing Platform system table database.
- When you have created a self-signed certificate or have obtained one from a certificate authority.

Prerequisites

- Before running encryptPasswords to encrypt and store a new database password, make a backup copy of the jdbc.properties file, located in the tools/bin directory under your Marketing Platform installation.
- Before running encryptPasswords to encrypt and store the keystore password, you must have created or obtained a digital certificate and know the keystore password.

See Chapter 18, "IBM Unica Marketing Platform Utilities and SQL Scripts," on page 185 for additional prerequisites.

Syntax 1 4 1

encryptPasswords -d databasePassword

encryptPasswords -k keystorePassword

Commands

-d databasePassword

Encrypt the database password.

-k keystorePassword

Encrypt the keystore password and store it in a file named pfile.

Examples

- When the Marketing Platformwas installed, the login for the system table database account was set to myLogin. Now, some time after installation, you have changed the password for this account to newPassword. Run encryptPasswords as follows to encrypt and store the database password.
 - encryptPasswords -d newPassword
- You are configuring an IBM Unica Marketing application to use SSL and have created or obtained a digital certificate. Run encryptPasswords as follows to encrypt and store the keystore password.
 - encryptPasswords -k myPassword

The partitionTool utility

Partitions are associated with Campaign policies and roles. These policies and roles and their partition associations are stored in the Marketing Platform system tables. The partitionTool utility seeds the Marketing Platform system tables with basic policy and role information for partitions.

When to use partitionTool

For each partition you create, you must use partitionTool to seed the Marketing Platform system tables with basic policy and role information.

See the installation guide appropriate for your version of Campaign for detailed instructions on setting up multiple partitions in Campaign.

Special characters and spaces

Any partition description or user, group, or partition name that contains spaces must be enclosed in double quotation marks.

See Chapter 18, "IBM Unica Marketing Platform Utilities and SQL Scripts," on page 185 for additional restrictions.

Syntax

partitionTool -c -s sourcePartition -n newPartitionName [-u
admin_user_name] [-d partitionDescription] [-g groupName]

Commands

The following commands are available in the partitionTool utility.

-c

Replicates (clones) the policies and roles for an existing partition specified using the -s option, and uses the name specified using the -n option. Both of these options are required with c. This command does the following.

- Creates a new IBM Unica Marketing user with the Admin role in both the Administrative Roles policy and the global policy in Campaign. The partition name you specify is automatically set as this user's password.
- Creates a new Marketing Platform group and makes the new Admin user a member of that group.
- Creates a new partition object.
- Replicates all the policies associated with the source partition and associates them with the new partition.
- For each replicated policy, replicates all roles associated with the policy.
- For each replicated role, maps all functions in the same way that they were mapped in the source role.
- Assigns the new Marketing Platform group to the last system-defined Admin role created during role replication. If you are cloning the default partition, partition1, this role is the default Administrative Role (Admin).

Options

-d partitionDescription

Optional, used with -c only. Specifies a description that appears in the output from the -list command. Must be 256 characters or less. Enclose in double quotation marks if the description contains spaces.

-g groupName

Optional, used with -c only. Specifies the name of the Marketing Platform Admin group that the utility creates. The name must be unique within this instance of the Marketing Platform

If not defined, the name defaults to partition nameAdminGroup.

-n partitionName

Optional with -list, required with -c. Must be 32 characters or less.

When used with -list, specifies the partition whose information is listed.

When used with -c, specifies the name of the new partition, and the partition name you specify is used as the password for the Admin user. The partition name must match the name you gave the partition in when you configured it (using the partition template on the Configuration page).

-s sourcePartition

Required, used with -c only. The name of the source partition to be replicated.

-u adminUserName

Optional, used with -c only. Specifies the user name of the Admin user for the replicated partition. The name must be unique within this instance of the Marketing Platform.

If not defined, the name defaults to partitionNameAdminUser.

The partition name is automatically set as this user's password.

Examples

- Create a partition with the following characteristics.
 - Cloned from partition1
 - Partition name is myPartition
 - Uses the default user name (myPartitionAdminUser) and password (myPartition)
 - Uses the default group name (myPartitionAdminGroup)
 - Description is "ClonedFromPartition1"

partitionTool -c -s partition1 -n myPartition -d "ClonedFromPartition1"

- Create a partition with the following characteristics.
 - Cloned from partition1
 - Partition name is partition2

- Specifies user name of customerA with the automatically assigned password of partition2
- Specifies group name of customerAGroup
- Description is "PartitionForCustomerAGroup"

```
partitionTool -c -s partition1 -n partition2 -u customerA -g
customerAGroup -d "PartitionForCustomerAGroup"
```

The populateDb utility

The populateDb utility inserts default (seed) data in the Marketing Platform system tables.

The IBM installer can populate the Marketing Platform system tables with default data for the Marketing Platform and for Campaign. However, if your company policy does not permit the installer to change the database, or if the installer is unable to connect with the Marketing Platform system tables, you must insert default data in the Marketing Platform system tables using this utility.

For Campaign, this data includes security roles and permissions for the default partition. For the Marketing Platform, this data includes default users and groups, and security roles and permissions for the default partition.

Syntax

```
populateDb -n productName
```

Commands

```
-n productName
```

Insert default data into the Marketing Platform system tables. Valid product names are Manager (for the Marketing Platform) and Campaign (for Campaign).

Examples

•

Insert Marketing Platform default data manually. populateDb -n Manager

•

Insert Campaign default data manually. populateDb -n Campaign

The restoreAccess utility

The restoreAccess utility allows you to restore access to the Marketing Platform if all users with PlatformAdminRole privileges have been inadvertently locked out or if all ability to log in to the Marketing Platform has been lost.

When to use restoreAccess

You might want to use restoreAccess under the two circumstances described in this section.

PlatformAdminRole users disabled

It is possible that all users with PlatformAdminRole privileges in the Marketing Platformmight become disabled in the system. Here is an example of how the platform_admin user account might become disabled. Suppose you have only one user with PlatformAdminRole privileges (the platform_admin user). Assume the Maximum failed login attempts allowed property property in the General I Password settings category on the Configuration page is set to 3. Then suppose someone who is attempting to log in as platform_admin enters an incorrect password three times in a row. These failed login attempts cause the platform_admin account to become disabled in the system.

In that case, you can use restoreAccess to add a user with PlatformAdminRole privileges to the Marketing Platform system tables without accessing the web interface.

When you run restoreAccess in this way, the utility creates a user with the login name and password you specify, and with PlatformAdminRole privileges.

If the user login name you specify exists in the Marketing Platform as an internal user, that user's password is changed.

Only a user with the login name of PlatformAdmin and with PlatformAdminRole privileges can universally administer all dashboards. So if the platform_admin user is disabled and you create a user with restoreAccess, you should create a user with a login of platform_admin.

Improper configuration of Active Directory integration

If you implement Windows Active Directory integration with improper configuration and can no longer log in, use restoreAccess to restore the ability to log in.

When you run restoreAccess in this way, the utility changes the value of the Platform | Security | Login method property from Windows integrated login to Marketing Platform. This change allows you to log in with any user account that existed before you were locked out. You can optionally specify a new login name and password as well. You must restart the web application server on which the Marketing Platform is deployed if you use the restoreAccess utility in this way.

Password considerations

Note the following about passwords when you use restoreAccess.

- The restoreAccess utility does not support blank passwords, and does not enforce password rules.
- If you specify a user name that is in use, the utility resets the password for that user.

Syntax

```
restoreAccess -u loginName -p password
restoreAccess -r
```

Commands

-r

When used without the -u *loginName* option, reset the value of the Unica | Security | Login method property to Marketing Platform. Requires restart of the web application server to take effect.

When used with the -u loginName option, create a PlatformAdminRole user.

Options

-u loginNname

Create a user with PlatformAdminRole privileges with the specified login name. Must be used with the -p option.

-p password

Specify the password for the user being created. Required with -u.

Examples

- Create a user with PlatformAdminRole privileges. The login name is tempUser and the password is tempPassword.
 - restoreAccess -u tempUser -p tempPassword
- Change the value of the login method to Unica Marketing Platform and create a user with PlatformAdminRole privileges. The login name is tempUser and the password is tempPassword.

restoreAccess -r -u tempUser -p tempPassword

The scheduler_console_client utility

Jobs configured in the IBM Unica Marketing Scheduler can be listed and kicked off by this utility, if they are set up to listen for a trigger.

What to do if SSL is enabled

When the Marketing Platform web application is configured to use SSL, the JVM used by the scheduler_console_client utility must use the same SSL certificate that is used by the web application server on which the Marketing Platform is deployed.

Take the following steps to import the SSL certificate

- Determine the location of the JRE used by the scheduler_console_client.
 - If JAVA_HOME is set as a system environment variable, the JRE it points to is the one used by the scheduler_console_client utility.
 - If JAVA_HOME is not set as a system environment variable, the scheduler_console_client utility uses the JRE set either in the setenv script located in the tools/bin directory of your Marketing Platform installation, or on the command line.
- Import the SSL certificate used by the web application server on which the
 Marketing Platform is deployed to the JRE used by scheduler_console_client.
 The Sun JDK includes a program called keytool that you can use to import the
 certificate. Consult the Java documentation for complete details on using this
 program, or access the help by entering -help when you run the program.

If the certificates do not match, the Marketing Platform log file contains an error such as the following.

Caused by: sun.security.provider.certpath.SunCertPathBuilderException: unable to find valid certification path to requested target

Prerequisites

The Marketing Platform must be installed, deployed, and running.

Syntax 1 4 1

```
scheduler_console_client -v -t trigger_name user_name
scheduler console client -s -t trigger name user name
```

Commands

List the Scheduler jobs configured to listen for the specified trigger.

Must be used with the -t option.

-s

Execute the Scheduler jobs configured to listen for the specified trigger.

Must be used with the -t option.

Options

```
-t trigger name
```

The name of the trigger, as configured in the Scheduler.

Example

- List jobs configured to listen for a trigger named trigger1. scheduler_console_client -v -t trigger1
- Execute jobs configured to listen for a trigger named trigger1. scheduler_console_client -s -t trigger1

About Marketing Platform SQL scripts

This section describes the SQL scripts provided with the Marketing Platform to perform various tasks relating to the Marketing Platform system tables. They are designed to be run against the Marketing Platform system tables.

The Marketing Platform SQL scripts are located in the db directory under your Marketing Platform installation.

You must use the database client to run the SQL against the Marketing Platform system tables.

Reference: Marketing Platform SQL scripts

This section describes the Marketing Platform SQL scripts.

Removing all data (ManagerSchema_DeleteAll.sql)

The Manager_Schema_DeleteAll.sql script removes all data from the Marketing Platform system tables without removing the tables themselves. This script removes all users, groups, security credentials, data filters, and configuration settings from the Marketing Platform.

When to use ManagerSchema_DeleteAll.sql

You might want to use ManagerSchema_DeleteAll.sql if corrupted data prevents you from using an instance of the Marketing Platform.

Additional requirements

To make the Marketing Platform operational after running ManagerSchema_DeleteAll.sql , you must perform the following steps.

- Run the populateDB utility as described in "The populateDb utility" on page 196.
 The populateDB utility restores the default configuration properties, users, roles,
 and groups, but does not restore any users, roles, and groups you have created
 or imported after initial installation.
- Use the configTool utility with the config_navigation.xml file to import menu items, as described in "The configTool utility" on page 187.
- If you have performed any post-installation configuration, such as creating data filters or integrating with an LDAP server or web access control platform, you must perform these configurations again.
- If you want to restore previously existing data filters, run the datafilteringScriptTool utility using the XML originally created to specify the data filters.

Removing data filters only (ManagerSchema_PurgeDataFiltering.sql)

The ManagerSchema_PurgeDataFiltering.sql script removes all data filtering data from the Marketing Platform system tables without removing the data filter tables themselves. This script removes all data filters, data filter configurations, audiences, and data filter assignments from the Marketing Platform.

When to use ManagerSchema_PurgeDataFiltering.sql

You might want to use ManagerSchema_PurgeDataFiltering.sql if you need to remove all data filters without removing other data in the Marketing Platform system tables.

Important: The ManagerSchema_PurgeDataFiltering.sql script does not reset the values of the two data filter properties, Default table name and Default audience name. If these values are no longer valid for the data filters you want to use, you must set the values manually on the Configuration page.

Removing system tables (ManagerSchema_DropAll.sql)

The ManagerSchema_DropAll.sql script removes all Marketing Platform system tables from a database. This script removes all tables, users, groups, security credentials, and configuration settings from the Marketing Platform.

Note: If you run this script against a database containing an earlier version of the Marketing Platform system tables, you might receive error messages in your database client stating that constraints do not exist. Youcan safely ignore these messages.

When to use ManagerSchema_DropAll.sql

You might want to use ManagerSchema_DropAll.sql if you have uninstalled an instance of the Marketing Platform where the system tables are in a database that contains other tables you want to continue using.

Additional requirements

To make the Marketing Platform operational after running this script, you must perform the following steps.

- Run the appropriate SQL script to re-create the system tables, as described in "Creating system tables."
- Run the populateDB utility as described in "The populateDb utility" on page 196. Running the populateDB utility restores the default configuration properties, users, roles, and groups, but does not restore any users, roles, and groups you have created or imported after initial installation.
- Use the configTool utility with the config_navigation.xml file to import menu items, as described in "The configTool utility" on page 187.
- If you have performed any post-installation configuration, such as creating data filters or integrating with an LDAP server or web access control platform, you must perform these configurations again.

Creating system tables

Use the scripts described in the following table to create Marketing Platform system tables manually, when your company policy does not allow you to use the installer to create them automatically. The scripts are shown in the order in which you must run them.

Datasource Type	Script Names
IBM DB2®	 ManagerSchema_DB2.sql ManagerSchema_DB2_CeateFKConstraints.sql If you plan to support multi-byte characters (for example, Chinese, Japanese, or Korean), use the ManagerSchema_DB2_unicode.sql script. active_portlets.sql
Microsoft SQL Server	ManagerSchema_SqlServer.sqlManagerSchema_SqlServer_CeateFKConstraints.sqlactive_portlets.sql

Datasource Type	Script Names
Oracle	ManagerSchema_Oracle.sql ManagerSchema Oracle CeateFKConstraints.sql
	• active_portlets.sql

If you plan to use the Scheduler feature that enables you to configure a flowchart to run at predefined intervals, you must also create the tables that support this feature. To create the Scheduler tables, run the appropriate script, as described in the following table.

Data Source Type	Script Name
IBM DB2	quartz_db2.sql
Microsoft SQL Server	quartz_sqlServer.sql
Oracle	quartz_oracle.sql

When to use the create system tables scripts

You must use these scripts when you install or upgrade the Marketing Platform if you have not allowed the installer to create the system tables automatically, or if you have used ManagerSchema DropAll.sql to delete all Marketing Platform system tables from your database.

Appendix A. Configuration Properties on the Configuration Page

This section describes the configuration properties found on the Configuration page.

Marketing Platform configuration properties

This section describes the Marketing Platform configuration properties on the Configuration page.

General | Navigation

TCP port for secure connections

Description

Specifies the SSL port in the web application server on which the Marketing Platform is deployed. This property is used internally for communication among IBM products.

Default value

7001

TCP port for standard connections

Description

Specifies the HTTP port in the web application server on which the Marketing Platform is deployed. This property is used internally for communication among IBM products.

Default value

7001

Unica URL

Description

Specifies the URL used for the IBM Unica Marketing. This is set at installation time and normally should not be changed. Note that the URL contains the domain name, as shown in the following example.

protocol://machine_name_or_IP_address.domain_name:port_number/ context-root

The machine name should not be localhost.

Default value

Not defined

Example

In an environment configured for SSL, the URL might look like this:

https://machineName.companyDomain.com:8080/customer/unica

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General | Data filtering Default table name

Description

In conjunction with Default audience name, determines the set of data filters (that is, the data configuration) from which the data filter user interface in IBM Unica Marketing reads filters and assignments.

Default value

Undefined

Valid Values

Physical name of the customer table that contains the fields used as data filter criteria. Maximum of 50 characters of type varchar.

Default audience name

Description

In conjunction with Default table name, determines the set of data filters (that is, the data configuration) from which the data filter user interface in IBM Unica Marketing reads filters and assignments.

Default value

Undefined

Valid Values

When configuring data filters for Distributed Marketing, the name must be the same as the name given to an audience level in Campaign. Maximum of 50 characters of type varchar.

General | Password settings

Properties in this category specify the policies that apply to IBM Unica Marketing passwords. Most of these password options apply only to passwords for internal users (created within the Marketing Platform), not to external users (imported from an external system). The exception is the Maximum failed login attempts allowed property, which affects both internal and external users. Also note that this property does not override any similar restriction set in an external system.

Maximum failed login attempts allowed

Description

Specifies the maximum number of times an invalid password may be entered each time a user logs in. If the maximum is reached, the user is disabled in the IBM Unica Marketing system, and no one can log in as that user.

If set to zero or less, the system allows an infinite number of consecutive failures.

Default value

3

Valid Values

Any integer

Password history count

Description

Specifies the number of old passwords the system retains for a user. The user is not allowed to reuse any passwords within this list of old passwords. If the value is set to zero or less, then no history is retained, and the user may reuse the same password repeatedly. Note that the password history count does not include the password initially assigned to a user account when it is created.

Default value

0

Valid Values

Any integer

Validity (in days)

Description

Specifies the number of days before a user's password expires.

If the value is zero or less, then the password never expires.

If the value is greater than zero, users are required to change their password the first time they log in, and the expiration interval is counted from the date of the first login.

If you change this value after users and passwords have been created, the new expiration date takes effect for existing users the next time they change their password.

Default value

30

Valid Values

Any integer

Blank passwords allowed

Description

Specifies whether the a blank password is allowed. If you set this to true you should also set Minimum character length=0.

Default value

true

Valid Values

true | false

Allow identical user name and password

Description

Specifies whether the user's password is allowed to be the same as the user's login name.

Default value

false

Valid Values

true | false

Minimum number of letter characters

Description

Specifies the minimum number of letters required in a password. If the value is zero or less, then there is no minimum requirement.

Default value

0

Valid Values

Any integer

Minimum number of numeric characters

Description

Specifies the minimum number of numbers required in a password. If the value is zero or less, then there is no minimum requirement.

Default value

Θ

Valid Values

Any integer

Minimum character length

Description

Specifies the minimum length of a password. If the value is zero or less, then there is no minimum requirement. If you set the value to greater than 0, you should also set Blank passwords allowed=false.

Default value

4

Valid Values

Any integer

General | Miscellaneous

Properties in this category specify values that are used internally, as well as a value you may need to set for the locale.

TokenLifetime

Description

Specifies the length of time, in seconds, that a token generated by the Marketing Platform is valid. It is part of the suite sign-on implementation, and you should not change this value.

Default value

15

Valid Values

Any positive integer

Default region

Description

Specifies the default locale for the Marketing Platform. If you plan to install Campaign, you should set this value to match the locale set for Campaign in Campaign's defaultLocale property.

Default value

en US

Valid Values

Supported locales

Trusted application enabled

Description

When this value is set to True, the Marketing Platform must be deployed in an environment that has an SSL port and the Unica URL property in the General > Navigation category must be set to use https.

Default value

False

Valid Values

True | False

Platform

Region setting

Description

Specifies the locale preference for IBM Unica Marketing users. When you set this property on the Configuration page, the setting you apply is the default setting throughout IBM Unica Marketing for all users, except those whose locale preference is set individually through the Marketing Platform's User page. When you set this property for an individual user, the setting you apply for that user overrides the default setting.

This preference setting affects display of the language, time, numbers, and dates in IBM Unica Marketing applications.

Availability of locales may vary depending on the IBM Unica Marketing application, and not all IBM Unica applications support this locale setting in the Marketing Platform. See specific product documentation to determine availability and support for the Region setting property.

Default value

English (United States)

Help server

Description

The URL of the server on which IBM Unica hosted online help is installed. If IBM Unica Marketing users have internet access, you should not change the default value, which points to the online help server maintained and updated by IBM Unica .

Default value

The URL of the hosted help server.

Valid Values

Any server on which IBM Unica hosted help is installed.

Unica Marketing Operations - Campaign integration

Description

A flag indicating whether Marketing Operations and Campaign are installed together and integrated. For more information about configuring this integration, see the *IBM Unica Marketing Operations and Campaign Integration Guide*.

Default value

False

Valid Values

True | False

Unica Marketing Operations - Offer integration

Description

For systems the integrate Marketing Operations with Campaign, this flag indicates whether offer integration is also enabled. Offer integration enables the ability to use Marketing Operations to perform offer lifecycle management tasks. For more information about configuring this integration, see the *IBM Unica Marketing Operations and Campaign Integration Guide*.

Default value

False

Valid Values

True | False

Start page

Description

The URL of the page that appears when users log in to IBM Unica Marketing. The default is the default dashboard.

Default value

The default dashboard.

Valid Values

Any IBM Unica Marketing URL except form submissions pages, edit pages, and search result pages.

Domain name

Description

The name of the domain where IBM Unica Marketing is installed. The value is set during installation. You should not change this unless the domain name changes.

Default value

Not defined

Disable Page Tagging

Description

When set to the default value of False, IBM Unica uses the Site ID code that was entered during Marketing Platform installation to gather basic statistics that track overall product usage trends to develop and improve IBM Unica products. If you do not want to have such information collected, set this property to True.

Default value

False

Valid Values

True | False

Platform | Scheduler

Client polling interval

Description

Campaign polls the IBM Scheduler for jobs at regular intervals, specified in milliseconds by this value. The default value is 60 seconds. You should not set this property to any value less than 10000 (10 seconds), because this can decrease campaign performance.

Default value

60000

Client initialization delay

Description

The amount of time, expressed in milliseconds, that the Campaign scheduler thread waits before polling the IBM Scheduler for jobs when Campaign first starts up. Set this value to be at least as long as it takes for Campaign to fully start up on your system. The default value is five minutes.

Default value

300000

Valid Values

Any integer

Platform | Scheduler | Recurrence definitions

Properties in this category set the recurrence patterns for the IBM Scheduler. These appear in the dialog box you use if you set a recurrence pattern when you create a schedule. You can use the Recurrence template to create your own recurrence pattern, using any valid Cron expression.

Every hour

Description

The job is triggered every hour.

Default value

0 0 0/1 * * ?

Every day

Description

The job is triggered every 24 hours.

Default value

```
0 0 0 * * ?
```

Every [day of week] at 12:00 am

Description

The job is triggered on the specified day of the week at 12:00 am.

Default value

- Monday 0 0 0 ? * MON
- Tuesday 0 0 0 ? * TUE
- Wednesday 0 0 0 ? * WED
- Thursday 0 0 0 ? * THU
- Friday 0 0 0 ? * FRI
- Saturday 0 0 0 ? * SAT
- Sunday 0 0 0 ? * SUN

[First|Last] day of every month at 12:00 am

Description

The job is triggered on the specified day of the month (first or last) at 12:00 am.

Default value

- First day of every month 0 0 0 1 *?
- Last day of every month 0 0 0 L *?

[First|Last] day of every quarter at 12:00 am

Description

The job is triggered on the specified day of the calendar quarter (first or last day) at 12:00 am.

Default value

- First day of every quarter 0 0 0 1 * JAN, APR, JUL, OCT
- Last day of every quarter 0 0 0 L * MAR, JUN, SEP, DEC

[First|Last] day of every year at 12:00 am

Description

The job is triggered on the specified day of the year (first or last) at 12:00 am.

Default value

- First day of every year 0 0 0 1 ? JAN *
- Last day of every year 0 0 0 L ? DEC *

Every [month] at 12:00 am

Description

The job is triggered on the first day of the specified month at 12:00 am.

Default value

- Every January 0 0 0 1 ? JAN *
- Every February 0 0 0 1 ? FEB *
- Every March 0 0 0 1 ? MAR *
- Every April 0 0 0 1 ? APR *
- Every May 0 0 0 1 ? MAY *
- Every June 0 0 0 1 ? JUN *
- Every July 0 0 0 1 ? JUL *
- Every August 0 0 0 1 ? AUG *
- Every September 0 0 0 1 ? SEP *
- Every October 0 0 0 1 ? 0CT *
- Every November 0 0 0 1 ? NOV *
- Every December 0 0 0 1 ? DEC *

Platform | Scheduler | Schedule registrations | Campaign | [Object type]

A different category exists for each of the object types that can be scheduled with the IBM scheduler. Properties in these categories should not normally be changed.

Executor class name

Description

The class that the IBM Scheduler uses to trigger a flowchart or mailing run.

Default value

Status polling interval

Description

At regular intervals, the IBM Scheduler polls Campaign for the run status of scheduled objects that have not reported status. The interval is specified here in milliseconds. The default value is 10 minutes. Setting a more frequent polling interval (a smaller value) affects the system performance. Setting a less frequent polling interval (a larger value) reduces the load on the system. For example, you might want to set a less frequent polling interval when you have a large number of Campaign flowcharts that take more than 10 minutes to complete.

Default value

600000

Platform | Scheduler | Schedule registrations | Campaign | [Object type] | [Throttling group]

Default throttling groups exist for each of the object types that can be scheduled with the IBM Unica scheduler. You can use the throttling group template to create additional groups.

Throttling threshold

Description

The greatest number of schedules associated with this group that can run concurrently. The configured scheduler groups appear in the Scheduler **Group** drop-down list in the Scheduler user interface for creating and editing schedules. The default throttling group is set to 999, which is effectively no limit. Because all schedules must belong to a throttling group, you should leave this value unchanged so that schedules that you do not want to throttle can be assigned to this group.

Default value

Valid Values

Any positive integer.

Platform | Security Login method

Description

Specifies the authentication mode for all IBM Unica Marketing products installed and configured to work together, as follows:

- If you set the value to Windows integrated login, IBM Unica Marketing products use Windows Active Directory for authentication.
- If you set the value to Unica Marketing Platform, IBM Unica Marketing products use the Marketing Platform for authentication and authorization.
- If you set the value to LDAP, IBM Unica Marketing products use an LDAP server for authentication.
- If you set the value to Web access control, IBM Unica Marketing products use web access control software for authentication.

Default value

Unica Marketing Platform

Valid Values

Windows integrated login | Unica Marketing Platform | LDAP | Web access control

Platform | Security | Login method details | Windows integrated login

Domain

Description

Sets the value of JCIFS SMB client library property jcifs.smb.client.Domain. Specifies the domain that is used if no domain is specified in an SMB URL. Set this value to the Windows domain name. For most environments, set either this property or the Domain Controller property.

Default value

Undefined.

Availability

This property is used only when the Marketing Platform is configured to integrate with a Windows Active Directory server and Windows integrated login is enabled.

Client Timeout

Description

Sets the value of JCIFS SMB client library property jcifs.smb.client.soTimeout. Specifies the amount of time, in milliseconds, before sockets are closed if there is no activity between the client and server. This number should be as small as possible but long enough to allow the protocol handshaking to complete, which depends on network characteristics.

Default value

1000

Availability

This property is used only when the Marketing Platform is configured to integrate with a Windows Active Directory server and Windows integrated login is enabled.

Cache Policy

Description

Sets the value of JCIFS SMB client library property jcifs.netbios.cachePolicy. Specifies the amount of time, in seconds, that the NetBIOS name is cached to reduce redundant name queries. If the value is set to 0 is no caching takes place. If the value is set to -1 the cache is never cleared. This property is used when SMB signing is enabled and required in a Windows 2003 domain.

Default value

0

Availability

This property is used only when the Marketing Platform is configured to integrate with a Windows Active Directory server and Windows integrated login is enabled.

Domain Controller

Description

Sets the value of JCIFS SMB client library property jcifs.http.domainController. Specifies the IP address of a server that should be used to authenticate HTTP clients (used by NtlmHttpFilter and

NetworkExplorer). You may use the IP address of a workstation in the domain specified in the Domain property. For most environments, set either this property or the Domain property.

Default value

Undefined.

Availability

This property is used only when the Marketing Platform is configured to integrate with a Windows Active Directory server and Windows integrated login is enabled.

IP of the WINS server

Description

Sets the value of JCIFS SMB client library property jcifs.netbios.wins. Specifies the IP address of the WINS server. You may enter multiple IP addresses, separated by commas (for example 192.168.100.30, 192.168.100.31). The WINS server is queried to resolve the domain specified in the Domain property to an IP address of a domain controller. This property is required when accessing hosts on different subnet (such as a domain controller by name) and it is highly recommended if a WINS server is available.

Default value

Undefined

Availability

This property is used only when the Marketing Platform is configured to integrate with a Windows Active Directory server and Windows integrated login is enabled and Windows integrated login is enabled.

Strip Domain

Description

Specifies whether the Marketing Platform removes a domain from users' login names when they access the IBM Unica Marketing. If your Windows configuration requires a domain to be included with users' login names when they log in, set this value to False.

Default value

True

Valid Values

True | False

Availability

This property is used only when the Marketing Platform is configured to integrate with a Windows Active Directory server and Windows integrated login is enabled.

Retry on Authentication Failure

Description

If a user login fails, the system allows another login attempt if this value is set to True. Set to False if you want to disallow more than one login attempt.

Default value

True

Valid Values

True | False

Availability

This property is used only when the Marketing Platform is configured to integrate with a Windows Active Directory server and Windows integrated login is enabled.

Platform | Security | Login method details | LDAP LDAP server host name

Description

Specifies the name or IP address of the LDAP server. Set the value to the machine name or IP address of the LDAP server. For example: machineName.companyDomain.com

If you are integrating with Windows Active Directory, use the server name instead of the DNS name.

Default value

Undefined

Availability

This property is used only when the Marketing Platform is configured to integrate with a Windows Active Directory or other LDAP server.

LDAP server port

Description

Specifies the port on which the LDAP server listens. Set the value to the appropriate port number. Typically, the port number is 389 (636 if SSL is used).

Default value

389

Availability

This property is used only when the Marketing Platform is configured to integrate with a Windows Active Directory or other LDAP server.

User search filter

Description

Specifies the filter to use to search for users. Valid values are any valid LDAP search filter (see RFC 2254). Note that you must XML-escape any XML characters in this value.

Typically, the value for the user login attribute is uid for LDAP servers and sAMAccountName for Windows Active Directory servers. You should verify

this on your LDAP or Active Directory server. If your LDAP server is Windows Active Directory, you should change the default value of this property to use sAMAccountName rather than uid. For example:

(&(|(objectClass=user)(objectClass=person))(sAMAccountName={0}))

Default value

(&(|(objectClass=user)(objectClass=person))(uid={0}))

Availability

This property is used only when the Marketing Platform is configured to integrate with a Windows Active Directory or other LDAP server.

Use credentials stored in Unica

Description

Specifies whether the Marketing Platform uses credentials from the Marketing Platform database when searching the LDAP or Windows Active Directory server during user authentication (at login time).

If this value is true, the Marketing Platform uses credentials from the Marketing Platform database, and you must set the appropriate values for the Unica user for LDAP credentials and Data source for LDAP credentials properties in this category.

If your LDAP or Windows Active Directory server does not allow anonymous access, set this value to true.

If this value is false, the Marketing Platform connects with the LDAP or Windows Active Directory server anonymously. You may set this value to false if your LDAP or Windows Active Directory server allows anonymous access.

Default value

false

Valid Values

true | false

Availability

This property is used only when the Marketing Platform is configured to integrate with a Windows Active Directory or other LDAP server.

Unica user for LDAP credentials

Description

Specifies the name of the IBM Unica Marketing user that has been given LDAP administrator login credentials. Set this value if you set the Use credentials stored in Unica property in this category to true.

Set the value of this property to the user name you created for the IBM Unica Marketing user when you configured LDAP integration. This property works in conjunction with the Data source for LDAP credentials property in this category.

Default value

asm admin

Availability

This property is used only when the Marketing Platform is configured to integrate with a Windows Active Directory or other LDAP server.

Data source for LDAP credentials

Description

Specifies the Marketing Platform data source for LDAP administrator credentials. Set this value if you set the Use credentials stored in Unica property in this category to true.

Set the value of this property to the data source name you created for the IBM Unica Marketing user when you configured LDAP integration. This property works in conjunction with the Unica user for LDAP credentials property in this category.

Default value

Undefined

Availability

This property is used only when the Marketing Platform is configured to integrate with a Windows Active Directory or other LDAP server.

Base DN

Description

Specifies the base distinguishing name (DN) pointing to the root of the LDAP directory structure.

Default value

[CHANGE ME]

Valid Values

Any valid DN (see RFC 1779, RFC 2253)

Availability

This property is used only when the Marketing Platform is configured to integrate with a Windows Active Directory or other LDAP server.

Require SSL for LDAP connection

Path

```
Platform | Security | LDAP
```

Description

Specifies whether the Marketing Platform uses SSL when it connects to the LDAP server to authenticate users. If you set the value to true , the connection is secured using SSL.

Default value

false

Valid Values

true | false

Platform | Security | Login method details | Web access control

Username pattern

Description

Java regular expression used to extract the user login from the HTTP header variable in web access control software. Note that you must XML-escape any XML characters in the regular expression. The recommended value for SiteMinder and Tivoli® Access Manager is \w*

Default value

Undefined

Valid Values

Any Java regular expression.

Availability

This property is used only when the Marketing Platform is configured to integrate with web access control software.

Web access control header variable

Description

Specifies the HTTP header variable configured in the web access control software, which is submitted to the web application server. By default, SiteMinder uses sm user and Tivoli Access Manager (TAM) uses iv-user. For TAM, set this value to the user name component of the IBM Raw string, not the IBM HTTP string.

Default value

Undefined

Valid Values

Any string

Availability

This property is used only when the Marketing Platform is configured to integrate with web access control software.

Platform | Security | Login method details | LDAP synchronization

LDAP sync enabled

Description

Set to true to enable LDAP or Active Directory synchronization.

Default value

false

Valid Values

true | false

Availability

This property is used only when the Marketing Platform is configured to integrate with a Windows Active Directory or other LDAP server.

LDAP sync interval

Description

The Marketing Platform synchronizes with the LDAP or Active Directory server at regular intervals, specified in seconds here. If the value is zero or less, the Marketing Platform does not synchronize. If the value is a positive integer, the new value takes effect without a restart within ten minutes. Subsequent changes take effect within the configured interval time.

Default value

600, or ten minutes

Availability

This property is used only when the Marketing Platform is configured to integrate with a Windows Active Directory or other LDAP server.

LDAP sync delay

Description

This the time (in 24 hour format) after which the periodic synchronization with the LDAP server begins, after the Marketing Platform is started. For example an LDAP sync delay of 23:00 and anLDAP sync interval of 600 mean that when the Marketing Platform starts, the periodic synchronization starts to execute at 11:00 PM and executes every 10 minutes (600 seconds) thereafter.

Default value

23:00, or 11:00pm

Availability

This property is used only when the Marketing Platform is configured to integrate with a Windows Active Directory or other LDAP server.

LDAP sync timeout

Description

The LDAP sync timeout property specifies the maximum length of time, in minutes, after the start of a synchronization before the Marketing Platform marks the process ended. The Platform allows only one synchronization process to run at a time. If a synchronization fails, it is marked as ended whether it completed successfully or not.

This is most useful in a clustered environment. For example, if the Marketing Platform is deployed in a cluster, one server in the cluster might start an LDAP synchronization and then go down before the process is marked as ended. In that case, the Marketing Platform will wait for the amount of time specified in this property, and then it will start the next scheduled synchronization.

Default value

600, (600 minutes, or ten hours)

Availability

This property is used only when the Marketing Platform is configured to integrate with a Windows Active Directory or other LDAP server.

LDAP sync scope

Description

Controls the scope of the initial query to retrieve the set of users. You should retain the default value of SUBTREE for synchronizing with most LDAP servers.

Default value

SUBTREE

Valid Values

The values are standard LDAP search scope terms.

- OBJECT Search only the entry at the base DN, resulting in only that entry being returned
- ONE_LEVEL Search all entries one level under the base DN, but not including the base DN.
- SUBTREE Search all entries at all levels under and including the specified base DN.

Availability

This property is used only when the Marketing Platform is configured to integrate with a Windows Active Directory or other LDAP server.

LDAP provider URL

Description

For most implementations, set to the LDAP URL of the LDAP or Active Directory server, in one of the following forms:

- ldap://IP_address:port_number
- ldap://machineName.domain.com:port_number

On LDAP servers, the port number is typically 389 (636 if SSL is used).

If IBM Unica Marketing is integrated with an Active Directory server, and your Active Directory implementation uses serverless bind, set the value of this property to the URL for your Active Directory server, using the following form:

ldap:///dc=example,dc=com

Default value

Undefined

Availability

This property is used only when the Marketing Platform is configured to integrate with a Windows Active Directory or other LDAP server.

Require SSL for LDAP connection

Path

Platform | Security | LDAP synchronization

Description

Specifies whether the Marketing Platform uses SSL when it connects to the LDAP server to synchronize users. If you set the value to true, the connection is secured using SSL.

Default value

false

Valid Values

true | false

Availability

This property is used only when the Marketing Platform is configured to integrate with a Windows Active Directory or other LDAP server.

LDAP config Unica group delimiter

Description

In the LDAP reference to Unica group map category, if you want to map one LDAP or Active Directory group to multiple Marketing Platform groups, use the delimiter specified here. It can be any single character that does not appear in the names it is separating.

Default value

; (semicolon)

Availability

This property is used only when the Marketing Platform is configured to integrate with a Windows Active Directory or other LDAP server.

LDAP reference config delimiter

Description

Specifies the delimiter that separates the SEARCHBASE and FILTER components that make up the LDAP or Active Directory reference (described in the LDAP references for Unica user creation category).

FILTER is optional: if omitted, the Marketing Platform server dynamically creates the filter based on the value of LDAP user reference attribute name.

Default value

; (semicolon)

Valid Values

Any single character that does not appear in the names it is separating.

Availability

This property is used only when the Marketing Platform is configured to integrate with a Windows Active Directory or other LDAP server.

Unica user for LDAP credentials

Description

Specifies the name of IBM Unica Marketing user that has been given LDAP administrator login credentials.

Set the value of this property to the user name you created for the IBM Unica Marketing user when you configured LDAP integration. This property works in conjunction with the Data source for LDAP credentials property in this category.

Default value

asm admin

Availability

This property is used only when the Marketing Platform is configured to integrate with a Windows Active Directory or other LDAP server.

Data source for LDAP credentials

Description

Specifies the Marketing Platform data source for LDAP administrator credentials.

Set the value of this property to the data source name you created for the IBM Unica Marketing user when you configured LDAP integration. This property works in conjunction with the Unica user for LDAP credentials property in this category.

Default value

Undefined

Availability

This property is used only when the Marketing Platform is configured to integrate with a Windows Active Directory or other LDAP server.

LDAP user reference attribute name

Description

Specifies the name that your LDAP or Active Directory server uses for the user attribute in the Group object. Typically, this value is uniquemember in LDAP servers and member in Windows Active Directory servers.

If you omit the FILTER reference in the LDAP references for AM user creation and LDAP references to AM group map sections, the Marketing Platform server dynamically creates the filter based on this value, so you should verify this on your LDAP or Active Directory server.

Default value

member

Availability

This property is used only when the Marketing Platform is configured to integrate with a Windows Active Directory or other LDAP server.

User login

Description

Maps the IBM Unica Marketing user's login to the equivalent user attribute in your LDAP or Active Directory server. User login is the only required mapping. Typically, the value for this attribute is uid for LDAP servers and sAMAccountName for Windows Active Directory servers. You should verify this on your LDAP or Active Directory server.

Default value

uid

Availability

This property is used only when the Marketing Platform is configured to integrate with a Windows Active Directory or other LDAP server.

First name

Description

Maps the First Name user attribute in the Marketing Platform to the equivalent user attribute in your LDAP or Active Directory server.

Default value

givenName

Availability

This property is used only when the Marketing Platform is configured to integrate with a Windows Active Directory or other LDAP server.

Last name

Description

Maps the Last Name user attribute in the Marketing Platform to the equivalent user attribute in your LDAP or Active Directory server.

Default value

sn

Availability

This property is used only when the Marketing Platform is configured to integrate with a Windows Active Directory or other LDAP server.

User title

Description

Maps the Title user attribute in the Marketing Platform to the equivalent user attribute in your LDAP or Active Directory server.

Default value

title

Availability

This property is used only when the Marketing Platform is configured to integrate with a Windows Active Directory or other LDAP server.

Department

Description

Maps the Department user attribute in the Marketing Platform to the equivalent user attribute in your LDAP or Active Directory server.

Default value

Undefined

Availability

This property is used only when the Marketing Platform is configured to integrate with a Windows Active Directory or other LDAP server.

Company

Description

Maps the Company user attribute in the Marketing Platform to the equivalent user attribute in your LDAP or Active Directory server.

Default value

Undefined

Availability

This property is used only when the Marketing Platform is configured to integrate with a Windows Active Directory or other LDAP server.

Country

Description

Maps the Country user attribute in the Marketing Platform to the equivalent user attribute in your LDAP or Active Directory server.

Default value

Undefined

Availability

This property is used only when the Marketing Platform is configured to integrate with a Windows Active Directory or other LDAP server.

User email

Description

Maps the Email Address attribute in the Marketing Platform to the equivalent user attribute in your LDAP or Active Directory server.

Default value

mail

Availability

This property is used only when the Marketing Platform is configured to integrate with a Windows Active Directory or other LDAP server.

Address 1

Description

Maps the Address user attribute in the Marketing Platform to the equivalent user attribute in your LDAP or Active Directory server.

Default value

Undefined

Availability

This property is used only when the Marketing Platform is configured to integrate with a Windows Active Directory or other LDAP server.

Work phone

Description

Maps the Work Phone user attribute in the Marketing Platform to the equivalent user attribute in your LDAP or Active Directory server.

Default value

telephoneNumber

Availability

This property is used only when the Marketing Platform is configured to integrate with a Windows Active Directory or other LDAP server.

Mobile phone

Description

Maps the Mobile Phone user attribute in the Marketing Platform to the equivalent user attribute in your LDAP or Active Directory server.

Default value

Undefined

Availability

This property is used only when the Marketing Platform is configured to integrate with a Windows Active Directory or other LDAP server.

Home phone

Description

Maps the Home Phone user attribute in the Marketing Platform to the equivalent user attribute in your LDAP or Active Directory server.

Default value

Undefined

Availability

This property is used only when the Marketing Platform is configured to integrate with a Windows Active Directory or other LDAP server.

Alternate login

Description

Maps the Alternate Login user attribute in the Marketing Platform to the equivalent user attribute in your LDAP or Active Directory server.

Default value

Undefined

Availability

This property is used only when the Marketing Platform is configured to integrate with a Windows Active Directory or other LDAP server.

Platform | Security | Login method details | LDAP synchronization | LDAP reference to Unica group map LDAP reference map

Description

Users who are members of the LDAP or Active Directory group specified here are imported to the Marketing Platform group specified in the Unica group property.

Set the value of this property using the following syntax: SEARCHBASE DELIMITER FILTER where:

SEARCHBASE is the Distinguished Name (DN) of the object.

DELIMITER is the value of the LDAP config AM group delimiter property.

FILTER is the LDAP or Active Directory attribute filter. FILTER is optional: if omitted, the Marketing Platform server dynamically creates the filter based on the value of the LDAP user reference attribute name property.

Default value

Undefined

Availability

This property is used only when the Marketing Platform is configured to integrate with a Windows Active Directory or other LDAP server.

Unica group

Description

Users who are members of the LDAP or Active Directory group specified in the LDAP reference group property are imported to the Marketing Platform group specified here.

Default value

Undefined

Availability

This property is used only when the Marketing Platform is configured to integrate with a Windows Active Directory or other LDAP server.

IBM Coremetrics configuration properties

This section describes the IBM Coremetrics configuration properties on the Configuration page.

These configuration properties are used in configuring single sign-on between IBM Coremetrics and IBM Unica Marketing. See the *IBM Unica Marketing Platform Administrator's Guide* for for details about this integration.

Coremetrics

Enable Coremetrics Analytics

Description

This is part of the configuration for enabling single sign-on between IBM Coremetrics and IBM Unica Marketing.

Set to true as one of the steps for enabling single sign-on.

See the *IBM Unica Marketing Platform Administrator's Guide* for for details about this integration.

Default value

false

Coremetrics | Integration | partitions | partition[n] Platform user for Coremetrics account

Description

Specifies the login name of the IBM Unica Marketing user account that holds the IBM Coremetrics shared secret in a data source.

This is part of the configuration for enabling single sign-on between IBM Coremetrics and IBM Unica Marketing. See the *IBM Unica Marketing Platform Administrator's Guide* for details about this integration.

Default value

asm admin

Datasource for Coremetrics account

Description

Specifies the name of the data source created to hold the IBM Coremetrics shared secret.

This is part of the configuration for enabling single sign-on between IBM Coremetrics and IBM Unica Marketing. See the *IBM Unica Marketing Platform Administrator's Guide* for for details about this integration.

Default value

CoremetricsDS

Interaction History Configuration Properties

This section describes the Interaction History configuration properties on the Configuration page.

Interaction History

Properties in this category specify values that are used internally. Normally, these values are set automatically during installation.

ETL Server Name (without domain)

Description

The name of the machine on which Interaction History is installed. If for some reason you have to set this value manually, use the machine name, not localhost.

Default value

localhost

Operating System

Description

The operating system on which Interaction History is installed.

Default value

Windows

Valid values

Windows | AIX | Linux | Solaris

Interaction History | navigation

Properties in this category specify values that are used internally to navigate among IBM Unica products.

HTTPS Port

Description

Specifies the SSL port in the web application server on which Interaction History is deployed. This property is used internally for communication among IBM Unica products, when SSL is enabled.

Default value

7001

Valid values

HTTP Port

Description

Specifies the HTTP port in the web application server on which Interaction History is deployed. This property is used internally for communication among IBM Unica products.

Default value

7001

Valid values

Server URL

Description

Specifies the URL used for the IBM Unica Marketing. This is set at installation time and normally should not be changed. Note that the URL contains the domain name, as shown in the following example.

protocol://machine_name_or_IP_address.domain_name:port_number/context-root

The machine name should not be localhost.

Default value

Not defined

Example

In an environment configured for SSL, the URL might look like this: https://machineName.companyDomain.com:8080/customer/unica

Display Name

Description

This setting is used internally, and you should not change it.

Default value

InteractionHistory

Scheduler Edit Page URI

Description

This setting is used internally, and you should not change it.

Default value

jsp/scheduleOverride.jsp?taskId=

Logout URL

Description

This setting is used internally, and you should not change it.

Default value

logout.do

Interaction History | partitions | partition[n] | datasource

Properties in this category specify details about the Interaction History system tables.

Each partition that you add includes this sub category.

Database Type

Description

The Interaction History | partitions | partition[n] | dataSource property specifies the database type of the Interaction History system tables for this partition.

Default value

SQLSERVER

Valid values

SQLSERVER | DB2 | ORACLE | NETEZZA

JNDI Name

Description

The Interaction History | partitions | partition[n] | jndiName property specifies the jndi name used in the web application server for the JDBC connection to the Interaction History system tables.

Default value

[Change me]

Interaction History DSN

Description

Set this property as follows.

- If the database or schema type is SQLServer, set to the name of the ODBC connection configured to connect to this data source.
- If the database or schema type is DB2, set to the DB2 instance name.
- If the database or schema type is Oracle, set to the TNS name specified in the tnsnames.ora file.

Default value

[Change me]

Datasource UserName

Description

Set to the login name of the IBM Unica Marketing user account that has the data source holding the database credentials for the Interaction History system table database or schema.

Default value

[Change me]

Interaction History DSN Database (Only for DB2)

Description

The name of the database or schema that holds the Interaction History system tables.

Default value

[Change me]

Interaction History | partitions | partition[n] | configuration ThresholdValueForResponse

Description

Reports should not show stimuli that are associated with a very small amount of credit. This property allows you to eliminate these smaller credits so that they do not overwhelm the report.

Any contact that receives credit for a response with a value lower than the threshold set by this property is not included in reports. Instead, this credit is distributed to other contacts that are eligible to receive credit for this response.

Default value

0.05

Start date for initial ETL (MM-DD-YYYY)

Description

This property sets the earliest date of records to be imported; it applies only to the first import of data from Campaign, Interact, and eMessage.

Enter a date value in MM-DD-YYYY format.

When the value of this property is not set, is a future date, or is an incorrect format, the system defaults to a date 90 days in the past.

Default value

[Change me]

Interaction History | partitions | partition[n] | CoreMetrics

For each partition, properties in this category specify details about the following.

- The FTP server where IBM Coremetrics uploads data exported for use by Interaction History.
- The IBM Coremetrics data exported for use by Interaction History.

FTP Root Directory

Description

The directory on the FTP server where IBM Coremetrics uploads data exported for use by Interaction History.

Default value

[Change me]

FTP Server

Description

The name or IP address of the FTP server where IBM Coremetrics uploads data exported for use by Interaction History.

Default value

[Change me]

FTP Port

Description

The port on which the FTP server listens.

Default value

21

Datasource UserName

Description

Set to the login name of the IBM Unica Marketing user account that has the data source holding the credentials for the FTP server where IBM Coremetrics uploads data exported for use by Interaction History.

Default value

[Change me]

CoreMetrics ClientID

Description

Set this value to the unique IBM Coremetrics Client ID assigned to your company.

Default value

[Change me]

Feed Name

Description

This property is used internally and you should not change it.

Staging Directory

Description

Set this property to the name of a directory on the machine where Interaction History is installed. IBM Coremetrics data feed will be stored in this directory temporarily during data imports.

Default value

[Change me]

Cost of Contact

Description

The cost of each contact recorded in IBM Coremetrics.

Default value

0

Cost of Response

Description

The cost of each response recorded in IBM Coremetrics.

Default value

0

Default Channel

Description

This property specifies the name given to the web channel in your Interaction History reports. You must give the web channel the same name when you map channels on the Interaction History Settings page.

Default value

[Change me]

Audience Level Name

Description

The name used in Campaign for the audience level from which contact and response history will be used. Only one audience level can be used.

Default value

[Change me]

Default Cell Name

Description

Name you want to assign to the segment that contains IBM Coremetrics responses. This is used in Interaction History reports that filter data by segment.

Default value

[Change me]

Source of Audience Mapping

Description

A flag that indicates whether the translation table is a flat file or a database table.

Default value

File

Valid values

File | Table

Data Source for Translation Table

Description

Name of the JDBC data source that connects to the translation table. This JDBC data source is created in the web application server where Interaction History is deployed.

Used only when the AudienceIDMappingSrc property is set to Table

Default value

[Change me]

Translation Table Name

Description

Name of the translation table being used to translate IBM Coremetrics keys to Campaign audience keys. Used only when the **AudienceIDMappingSrc** property is set to **Table**.

Default value

[Change me]

Translation Table Auto Incremental Field

Description

The name of the column in the translation table that is of the type auto increment number. Interaction History uses this column to determine which are the new records added in this table.

The first time the import is performed, Interaction History imports all the available data. When the **Translation Table Auto Incremental Field** property is set, Interaction History imports only the new contacts in subsequent imports. If this column is not specified then all the records will be imported every time; this might cause slow performance.

Used only when the AudienceIDMappingSrc property is set to Table.

Default value

Not defined

CMRegIdColumn

Description

The name of the column in the translation table that holds the IBM Coremetrics registration ID. Used only when the **AudienceIDMappingSrc** property is set to **Table**.

Default value

Not defined

CampaignColumn[n]

Description

There are five of these properties (CampaignColumn1, CampaignColumn2, and so on). They have corresponding properties for the equivalent columns in the translation table (TTColumn1, TTColumn2, and so on).

- If your audience level in Campaign is not a compound audience level, set CampaignColumn1 to the name of the database column that holds the Campaign audience level. Set TTColumn1 to the name of the column in your translation table that holds the Campaign audience level.
- If your audience level is a compound audience level comprised of multiple columns, use as many of the CampaignColumn and TTColumn properties as necessary, one pair for each part of your audience level.

For example, suppose you have an compound audience level in Campaign, comprised of two columns, custid and emailid.

In this case, the portion of your translation table that holds the Campaign audience level parts might look like this

Table 20. Example mapping in translation table

Translation table column	Campaign audience column
CampAud1	custid
CampAud2	emailid

You would set configuration properties as follows.

CampaignColumn1: custid

TTColumn1: CampAud1

• CampaignColumn2: emailid

• TTColumn2: CampAud2

Used only when the **AudienceIDMappingSrc** property is set to **Table**.

Default value

Not defined

TTColumn[n]

Description

There are five of these properties (TTColumn1, TTColumn2, and so on). For a description of how to set these properties, see CampaignColumn[n].

Used only when the **AudienceIDMappingSrc** property is set to **Table**.

Default value

Not defined

Interaction History | partitions | partition[n] | CampaignAndInteract

Properties in this category specify the Campaign and Interact data source in this partition.

Each partition that you add includes this sub category.

Database Type

Description

The Interaction History | partitions | partition[n] | CampaignAndInteract | dataSource property specifies the database type of the Campaign system tables in this partition.

Default value

SQLSERVER

Valid values

SQLSERVER, DB2, ORACLE

Campaign DSN

Description

Set this property as follows.

- If the database or schema type is SQLServer, set to the name of the ODBC connection configured to connect to this data source.
- If the database or schema type is DB2, set to the DB2 instance name.
- If the database or schema type is Oracle, set to the TNS name specified in the tnsnames.ora file.

Default value

[Change me]

Datasource User Name

Description

The login name of the IBM Unica Marketing user account that has the data source holding the database credentials for the Campaign system table database or schema.

Default value

[Change me]

Campaign DSN Database (Only for DB2)

Description

Set this property only if the database of schema that holds the Campaign and system tables is DB2. In that case, set to the DB name.

Default value

[Change me]

Interaction History | partitions | partition[n] | eMessage

Properties in this category specify the eMessage data source in this partition.

The values you set for database type, DSN, and login properties in this category are most often the same as those you set for the equivalent properties in the **Interaction History | partitions | partition[n] | CampaignAndInteract** category, except when the eMessage and Campaign tables are in different databases or schema.

Each partition that you add includes this sub category.

Database Type

Description

The Interaction History | partitions | partition[n] | eMessage | type property specifies the database type of the eMessage system tables in this partition.

Default value

Valid values

SQLSERVER, DB2, ORACLE

eMessage DSN

Description

Set this property as follows.

- If the database or schema type is SQLServer, set to the name of the ODBC connection configured to connect to this data source.
- If the database or schema type is DB2, set to the DB2 instance name.
- If the database or schema type is Oracle, set to the TNS name specified in the tnsnames.ora file.

Default value

[Change me]

Datasource UserName

Description

Set to the login name of the IBM Unica Marketing user account that has the data source holding the database credentials for the eMessage system table database or schema.

Default value

[Change me]

eMessage DSN Database (Only for DB2)

Description

Set this property only if the database or schema that holds the eMessage system tables is DB2. In that case, set to the DB name.

Default value

[Change me]

Default Channel

Description

This property specifies the name given to the email channel in your Interaction History reports. You must give the email channel the same name when you map channels on the Interaction History Settings page.

Default value

Email

eMessage Contact Cost

Description

This property specifies the cost of each email contact in this partition.

Default value

0

eMessage Response Cost

Description

This property specifies the cost of each email response in this partition.

Default value

0

eMessage URL Treatment Parameter

Description

The name of the parameter used in eMessage to hold the treatment code.

Default value

[Change me]

Interaction History | partitions | partition[n] | Reports Analysis_Report_Folder

Description

This property specifies the name of the folder in Cognos used for reports. This is different for each partition in your system. Retain the syntax shown in the default value, but change the value shown as Interaction History if necessary for each partition.

Default value

/content/folder[@name='Interaction History']

Attribution Modeler configuration properties

This section describes the Attribution Modeler configuration properties on the Configuration page.

Attribution Modeler | navigation

Properties in this category specify values that are used internally, and that apply across all partitions.

httpPort

Description

Specifies the HTTP port in the web application server on which Attribution Modeler is deployed. This property is used internally for communication among IBM Unica products.

Default value

7001

httpsPort

Description

Specifies the SSL port in the web application server on which the Attribution Modeler is deployed. This property is used internally for communication among IBM Unica products.

Default value

7001

serverURL

Description

Specifies the URL used for the IBM Unica Marketing. This is set at installation time and normally should not be changed. Note that the URL contains the domain name, as shown in the following example.

protocol://machine_name_or_IP_address.domain_name:port_number/context-root

The machine name should not be localhost.

Default value

```
http://localhost:7001/am
```

Example

In an environment configured for SSL, the URL might look like this:

https://machineName.companyDomain.com:8080/am

logoutURL

Description

This setting is used internally, and you should not change it.

Default value

/logout

displayName

Description

This setting is used internally, and you should not change it.

Default value

AttributionModeler | AMListener

Properties in this category specify values that are used internally, and that apply across all partitions.

serverHost

Description

Set to the name or IP address of the machine on which the Attribution Modeler listener is installed.

Default value

localhost

logStringEncoding

Description

The encoding used for the Attribution Modeler listener log.

This value should match the encoding used on the operating system. For multi-locale environments, UTF-8 is the preferred setting. If you change this value, you should empty or remove all affected log files to prevent writing multiple encodings into a single file.

Note: WIDEUTF-8 is not supported for this setting.

Default value

native

Valid values

See the *IBM Unica CampaignAdministrator's Guide* for a list of supported encodings.

systemStringEncoding

Description

This property specifies the encoding(s) used to interpret values coming into Attribution Modeler from the operating system (file system paths and filenames, for example), as well as the encoding in which Attribution Modeler presents values back to the operating system. This value should be generally be set to native. For multi-locale environments, UTF-8 is the preferred setting.

The value can include more than one encoding, separated by commas: for example,

UTF-8, ISO-8859, CP950

Note: WIDEUTF-8 is not supported for this setting.

Default value

native

Valid values

See the *IBM Unica Campaign Administrator's Guide* for a list of supported encodings.

loggingLevel

Description

This property determines how much information is recorded in the listener log. Note that setting the logging level to HIGH or ALL may affect performance.

Default value

MEDIUM

Valid values

LOW, MEDIUM, HIGH, ALL

serverPort

Description

The value of this property sets the port on which the Attribution Modeler server listens.

Default value

5664

AttributionModeler | paritions | partition[n] | AMFields

numFields

Description

Default value

1

FieldName

Description

Default value

Customer

type

Description

Default value

numeric

name

Description

Default value

OfferID

Attribution Modeler | partitions | partition[n]

Properties in this category specify values that affect how Attribution Modeler evaluates data. There is one set of these properties for each partition.

Enable Attribution Modeler

Description

A flag that indicates whether the response attribution methods in Attribution Modeler is applied to your reports. Setting this property to False disables the SIRA, first touch, and equal credit attribution methods. Direct and Last touch attribution methods are still enabled, to support reports that are part of Interaction History.

Default value

True

Maximum Interaction History Delay

Description

This property sets the number of days after a response from a customer that additional customer interactions will be used for scoring purposes by Attribution Modeler. Responses that occur between the most recent date for which there is a record in Interaction History and the number of days in the past set by this property are scored during each Attribution Modeler run.

Default value

10

Training Period

Description

This property sets the number of days, looking backward from the current date, for which contacts and responses are pulled from Interaction History to train the Attribution Modeler model during each run.

Set this property so that you obtain a representative sample, based on your business model, how frequently your offers change, and your marketing goals.

Default value

40

Valid values

Any integer

Attribution Modeler | partitions | partition[n] | dataSources

This category is empty when you first install Attribution Modeler. For each partition in your system, you must import configuration properties that enable you to specify many details of how Attribution Modeler interacts with its system tables.

You import a set of configuration properties appropriate for the type of database or schema that holds your system tables.

This procedure is described in the Interaction History and Attribution Modeler Installation Guide.

The properties in this category are identical to the properties of the same name that are used in Campaign.

For details about the properties, see the IBM Unica Marketing Platform Administrator's Guide, which contains descriptions of configuration properties for all the Enterprise products.

If you are using context help on the Configuration page, click Help > Help for this page, and on the first landing page that opens, click the link for Campaign. Then continue to follow links to navigate to the Campaign | Partitions | partition[n] | dataSources category. The properties listed on the page that opens will include the ones listed in the Attribution Modeler | partitions | partition[n] | dataSources category.

AttributionModeler | partitions | partition[n] | server | encoding

There is one of these properties for each partition.

stringEncoding

Description

This property specifies how Attribution Modeler reads in and writes out flat files. It should match the encoding used for all flat files. If not configured elsewhere, this is the default setting for flat file encoding.

Note: WIDEUTF-8 is not supported for this setting.

By default, no value is specified, and outgoing text files are encoded as UTF-8, which is the default encoding for Attribution Modeler.

It is a best practice to explicitly set this value to an encoding appropriate for your system, even if the value is UTF-8, the same as the implicit default.

Note: If you do not set the value of the StringEncoding property for data sources in the dataSources category, the value of this stringEncoding property is used as the default value. This can cause unnecessary confusion -- you should always explicitly set the StringEncoding property in the dataSources category.

See the IBM Unica CampaignAdministrator's Guide for a list of supported encodings.

Default value

No default value defined.

AttributionModeler | partitions | partition[n] | server | logging

Properties in this category specify values that affect how Attribution Modeler handles logging. There is one set of these properties for each partition.

loggingCategories

Description

The loggingCategories property specifies the category of messages written to the Attribution Modeler server log file. This works in conjunction with the loggingLevels property, which determines which messages are logged based on severity (for all selected categories). You can specify multiple categories in a comma-separated list. The special category all provides a shorthand for specifying all logging categories.

Default value

ALL

Valid values

Supported categories are:

- ALL
- BAD_ORDER
- CELL_ACCESS
- CONFIG
- DATA ERRORS
- DBLOAD
- FILE ACCESS
- GENERAL
- COMMANDS
- MEMORY
- PROCRUN
- QUERY
- SORT
- SYSQUERY
- TABLE ACCESS
- TABLE_MAPPING
- TABLE IO
- WEBPROC

loggingLevel

Description

This property controls the amount of detail written to the Attribution Modeler server log file, AMSvr.log, based on severity.

Default value

MEDIUM

Valid values

- LOW
- MEDIUM
- HIGH
- ALL

LOW represents the least detail (the most severe errors only), and ALL includes trace messages and is intended primarily for diagnostic purposes.

Note: You may want to set the loggingLevels property to ALL during configuration and testing, to maximize the logging output from Attribution

Modeler for diagnostic purposes. This setting generates a large amount of data and therefore may not be advisable for production operation.

logMaxFileSize

Description

This property specifies the maximum size, in bytes, that the Attribution Modeler server log file is allowed to reach before being rolled over to backup files.

Default value

10485760 (10 MB)

logMaxBackupIndex

Description

This property specifies the number of backup Attribution Modeler server log files that are kept before the oldest is erased.

If the value is 0 (zero), no backup files are created, and the log file is truncated when it reaches the size specified by the logFileMaxSize property.

For a value of n, where n is greater than zero, the files {File.1, ..., File.n-1} are renamed to {File.2, ..., File.n}. Also, File is renamed File.1 and closed. A new File is created to receive further log output.

Default value

1 (creates one backup log file)

enableLogging

Description

This property turns logging on or off for the partition specified in the partitions category under which this property is found.

Default value

TRUE

Attribution Modeler | partitions | partition[n] | AdvancedOptions

Properties in this category specify values that affect how Attribution Modeler evaluates data, and that apply across all partitions.

sampleSize

Description

This defines the percentage of available records that are used for training. This value should be set to a number that is greater than 0 but less than 100 (percent).

Default value

100

randomSeed

Description

The random seed represents the starting point that Attribution Modeler uses to select records randomly.

Default value

No value defined

maxTrainingTime

Description

This property specifies the maximum time, in hours, that Attribution Modeler spends training itself. It sets a time limit on the training process as it iterates over the data in an effort to reach the goal set by the **converganceThreshold** property. This time limit helps administrators limit the resources that Attribution Modeler consumes. The monitoring screen shows a run status of Overrun if SIRA exceeds this training time limit.

Default value

12

convergenceThreshold

Description

This property is used to set a limit for how much difference is allowed between the results of one training iteration and the next. This difference is expressed as a percentage of responses for which the results (winning offers) are allowed to change from one iteration to the next.

If you set this property to θ (zero), then you are not allowing any changes to the results from one training iteration to the next; this is the most rigorous standard. If you set this property to a value higher than θ , then you are allowing the training results to be more flexible; the standard is less rigorous and training might be completed sooner.

Default value

3

noiseEliminationThreshold

Description

This property is reserved for possible future use.

Default value

5

Reporting configuration properties

For reporting, the IBM Unica Marketing suite integrates with IBM Cognos, a third-party business intelligence application. You use the Cognos properties to identify the IBM Cognos system used by your IBM Unica installation. Then, for Campaign, eMessage, and Interact, there are additional configuration properties that you use to set up and customize reporting schemas.

Reports | Integrations | Cognos [version]

This page displays properties that specify URLs and other parameters for the IBM Cognos system used by this IBM Unica system.

Integration Name

Description

Read-only. Specifies that IBM Cognos is the third-party reporting or analytical tool used by the IBM Unica Marketing to display the reports.

Default value

Cognos

Vendor

Description

Read-only. Specifies that IBM Cognos is the name of the company that provides the application specified by the Integration Name property.

Default value

Cognos

Version

Description

Read-only. Specifies the product version of the application specified by the Integration Name property.

Default value

<version>

Enabled

Description

Specifies whether IBM Cognos is enabled for the suite.

Default value

False

Valid Values

True | False

Integration Class Name

Description

Read-only. Specifies the fully-qualified name of the Java class that creates the integration interface used to connect to the application specified by the Integration Name property.

Default value

com.unica.report.integration.cognos.CognosIntegration

Domain

Specifies the fully-qualified company domain name in which your Cognos server is running. For example, myCompanyDomain.com.

If your company uses subdomains, the value in this field must include the appropriate subdomain as well.

Default value

[CHANGE ME]

Valid Values

A string no longer than 1024 characters.

Portal URL

Description

Specifies the URL of the IBM Cognos Connection portal. Use a fully qualified host name, including the domain name (and subdomain, if appropriate) that is specified in the **Domain** property. For example: http://MyReportServer.MyCompanyDomain.com/cognos

You can find the URL in IBM Cognos Configuration at: **Local Configuration > Environment** .

Default value

http://[CHANGE ME]/cognos<version>/cgi-bin/cognos.cgi

Valid Values

A well-formed URL.

Dispatch URL

Description

Specifies the URL of the IBM Cognos Content Manager. Use a fully qualified host name, including the domain name (and subdomain, if appropriate) specified in the Domain property. For example: http://myReportServer.MyCompanyDomain.com:9300/p2pd/servlet/dispatch

You can find the URL in Cognos Configuration at: **Local Configuration > Environment** .

Default value

http://[CHANGE ME]:9300/p2pd/servlet/dispatch

Note that 9300 is the default port number for the Cognos Content Manager. Be sure that the port number specified matches that used in the Cognos installation.

Valid Values

A well-formed URL.

Authentication mode

Description

Specifies whether the IBM Cognos application is using the IBM Unica Authentication Provider, which means it relies on the Marketing Platform for authentication.

Default value

anonymous

Valid Values

- anonymous: means authentication is disabled.
- authenticated: means that the communications between the IBM Unica system and the Cognos system are secured at the machine level. You configure a single system user and configure it with the appropriate access rights. By convention, this user is named "cognos_admin."
- authenticatedPerUser: means that the system evaluates individual user credentials.

Authentication namespace

Description

Read only. The namespace of the IBM Unica Authentication Provider.

Default value

Unica

Authentication user name

Description

Specifies the login name for the reporting system user. The IBM Unica applications log in to Cognos as this user when Cognos is configured to use the Unica Authentication provider Note that this user also has access to IBM Unica Marketing.

This setting applies only when the **Authentication mode** property is set to **authenticated** .

Default value

cognos admin

Authentication datasource name

Description

Specifies the name of the data source for the reporting system user that holds the Cognos login credentials.

Default value

Cognos

Enable form authentication

Description

Specifies whether form-based authentication is enabled. You set this property to True when either of the following is true:

- When the IBM Unica Marketing is not installed in the same domain as the IBMCognos applications.
- When IBMCognos is accessed using an IP address (within the same network domain) instead of the Fully Qualified Hostname (which is being used to access the IBM Unica Marketing applications), even if both the IBM Unica Marketing applications and the IBMCognos installation are on the same machine.

However, when the value is True, the login process to Cognos Connection passes the login name and password in clear text and therefore is not secure unless IBMCognos and the IBM Unica Marketing are configured to use SSL communication.

Even with SSL configured, the user name and password appear as clear text in the HTML source code when you "view source" in a displayed report. For this reason, you should install IBM Cognos and IBM Unica Marketing in the same domain.

Default value

False

Valid Values

True | False

Reports | Schemas | [product] | [schema name] | SQL Configuration

Table/View Name

Description

Specifies the name of the view or table that the SQL script you generate for this reporting schema will create. As a best practice, you should not change the name for any of the standard or default Table/View names. If you do, you must also change the name of the view in the Cognos model in IBM Cognos Framework Manager.

When you create a new reporting schema for a new audience level, you must specify the names of all the new reporting tables/views.

Default value

Varies by schema

Valid Values

A string with the following restrictions.

- It can be no longer than 18 characters
- It must use all UPPER-CASE letters

Following is the naming convention you should use:

- Start the name with the letter "UAR"
- Add a one-letter code to represent the IBM Unica application. See the list of codes, below.
- · Add an underscore character
- Add the table name, including a one or two letter code to indicate the audience level
- · Finish with an underscore character.

The SQL generator appends a time dimension code, if appropriate. See the list of codes, below.

For example: UARC_COPERF_DY is the name of the reporting view or table for Campaign Offer Performance by Day.

Following is the list of IBM Unica application codes.

- · Campaign: C
- eMessage: E

• Interact: I

• Distributed Marketing: X

• Marketing Operations: P

• Leads: L

Following is the list of the Time Dimension Codes added by the generator.

Hour: HR Day: DY Week: WK Month: MO Quarter: QU Year: YR

Reports | Schemas | Campaign Input Datasource (JNDI)

Description

Specifies the name of the JNDI data source that identifies the Campaign database, specifically, the system tables. This data source must exist if you want to use the SQL generation tool to generate scripts that create reporting tables. The SQL generation tool can generate scripts that create reporting views without this data source, but it cannot validate them.

The database type of this data source must match the database type you select when you generate the SQL scripts for the Campaign views or reporting tables.

Default value

campaignPartition1DS

Reports | Schemas | Campaign | Offer Performance

The Offer Performance Schema yields contact and response history metrics for all offers and for offers by campaign. By default, the schema is configured to generate a "summary" view (or table) across all time.

Audience Key

Description

Specifies the name of the column that is the Audience Key for the audience level supported by this reporting schema.

Default value

CustomerID

Valid Values

A string value no longer than 255 characters

If the key includes more than one column, use commas between the column names. For example, ColumnY, ColumnY.

Contact History Table

Specifies the name of the Contact History table for the audience level supported by this reporting schema.

Default value

UA_ContactHistory

Detailed Contact History Table

Description

Specifies the name of the Detailed Contact History table for the audience level supported by this reporting schema.

Default value

UA_DtlContactHist

Response History Table

Description

Specifies the name of the Response History table for the audience level supported by this reporting schema.

Default value

UA ResponseHistory

Over Time Variations

Description

Specifies the calendar time periods used by the "over time" reports supported by this schema.

Default value

Day, Month

Valid Values

Day, Week, Month, Quarter, Year

Reports | Schemas | Campaign | [schema name] | Columns | [Contact Metric]

Use this form to add contact metrics to the Campaign Performance or Offer Performance reporting schemas.

Column Name

Description

Specifies the name to use in the reporting view or table for the column specified in the **Input Column Name** field.

Default value

[CHANGE ME]

Valid Values

The name can be no longer than 18 characters, it must be in all UPPER-CASE letters, and it cannot have spaces.

Function

Description

Specifies how the contact metric is determined or calculated.

Default value

count

Valid Values

count, count distinct, sum, min, max, average

Input Column Name

Description

The name of the column that provides the contact metric you are adding to this reporting schema.

Default value

[CHANGE ME]

Valid Values

The name of the column in the Contact History and Detailed Contact History tables.

Control Treatment Flag

Description

If you use the sample IBM Cognos reports or create your own custom reports that include control groups, then each contact metric must have two columns in the reporting schema. One column represents the metric for the control group and the other column represents the metric for the target group. The value in Control Treatment Flag specifies whether the column in the view represents the control group or the target group.

If your reports do not include control groups, you do not need the second column for the control group.

Default value

Valid Values

- 0: the column represents the target group
- 1: the column represents the control group

Reports | Schemas | Campaign | [schema name] | Columns | [Response Metric]

Use this form to add the response metrics you want to include in your reports to the Campaign Performance or Offer Performance reporting schemas.

Column Name

Description

Specifies the name to use in the reporting view or table for the column specified in the **Input Column Name** field.

Default value

[CHANGE ME]

Valid Values

The name can be no longer than 18 characters, it must be in all UPPER-CASE letters, and it cannot have spaces.

Function

Description

Specifies how the response metric is determined or calculated.

Default value

count

Valid Values

count, count distinct, sum, min, max, average

Input Column Name

Description

The name of the column that provides the response metric you are adding to this reporting schema.

Default value

[CHANGE ME]

Valid Values

The name of the column in the Response History table.

Control Treatment Flag

Description

If you use the standard IBM Cognos reports or create your own custom reports that include control groups, then each response metric must have two columns in the reporting schema. One column represents the response from the control group and the other column represents the response from the target group. The value in **Control Treatment Flag** specifies whether the column in the view represents the control group or the target group.

If your reports do not include control groups, you do not need the second column for the control group.

Default value

0

Valid Values

- 0: the column represents the target group
- 1: the column represents the control group

Reports | Schemas | Campaign | Performance

The Campaign Performance schema yields contact and response history metrics at the campaign, campaign-offer, and campaign-cell level.

Audience Key

Description

Specifies the name of the column that is the Audience Key for the audience level supported by this reporting schema.

Default value

CustomerID

Valid Values

A string value no longer than 255 characters

If the key includes more than one column, use commas between the column names. For example, ColumnX, ColumnY.

Contact History Table

Description

Specifies the name of the Contact History table for the audience level supported by this reporting schema.

Default value

UA ContactHistory

Detailed Contact History Table

Description

Specifies the name of the Detailed Contact History table for the audience level supported by this reporting schema.

Default value

UA_DtlContactHist

Response History Table

Description

Specifies the name of the Response History table for the audience level supported by this reporting schema.

Default value

UA_ResponseHistory

Over Time Variations

Description

Specifies the calendar time periods used by the "over time" reports supported by this schema.

Default value

Day, Month

Valid Values

Day, Week, Month, Quarter, Year

Reports | Schemas | Campaign | Offer Response Breakout

This schema supports reporting on campaign-detailed responses, broken out by response type and by offer data. This schema template gives different response counts for each custom Response Type for campaigns and offers grouped by campaign.

Response History Table

Description

Specifies the name of the Response History table for the audience level supported by this reporting schema.

Default value

UA ResponseHistory

Reports | Schemas | Campaign | Offer Response Breakout | [Response Type]

Use this form to add to the reporting schema any custom response types you want to include in your reports.

Column Name

Description

Specifies the name to use in the reporting view or table for the column specified in the **Response Type Code** field.

Default value

[CHANGE ME]

Valid Values

The name can be no longer than 18 characters, it must be in all UPPER-CASE letters, and it cannot have spaces.

Response Type Code

Description

The response type code for the specified response type. This is the value held in the ResponseTypeCode column in the UA UsrResponseType table.

Default value

[CHANGE ME]

Valid Values

The example response type codes are as follows:

- EXP (explore)
- CON (consider)
- CMT (commit)
- FFL (fulfill)
- USE (use)
- USB (unsubscribe)
- UKN (unknown)

Your Campaign installation may have additional custom response type codes.

Control Treatment Flag

Description

If you use the standard IBM Cognos reports provided in the IBM Unica Reports Pack or custom reports that include control groups, then each response type must have two columns in the reporting schema. One column represents the response type from the control group and the other column represents the response type from the target group. The value in **Control Treatment Flag** specifies whether the column in the view represents the control group or the target group.

If your reports do not include control groups, you do not need the second column for the control group.

Default value

0

Valid Values

- 0: the column represents the target group
- 1: the column represents the control group

Reports | Schemas | Campaign | Campaign Offer Contact Status Breakout

This schema supports reporting on campaign-detailed contacts, broken out by contact status type and by offer data. This schema template gives different contact counts for each custom Contact Status Type for campaigns and offers grouped by campaign.

By default, none of the example Campaign reports use this schema.

Audience Key

Description

Specifies the name of the column that is the Audience Key for the audience level supported by this reporting schema.

Default value

CustomerID

Valid Values

A string value no longer than 255 characters

If the key includes more than one column, use commas between the column names. For example, ColumnY, ColumnY.

Contact History Table

Description

Specifies the name of the Contact History table for the audience level supported by this reporting schema.

Default value

UA ContactHistory

Detailed Contact History Table

Description

Specifies the name of the Detailed Contact History table for the audience level supported by this reporting schema.

Default value

UA DtlContactHist

Reports | Schemas | Campaign | Campaign Offer Contact Status Breakout | [Contact Status Code]

Column Name

Description

Specifies the name to use in the reporting view or table for the column specified in the **Contact Status** field.

Default value

[CHANGE ME]

Valid Values

The name can be no longer than 18 characters, it must be in all UPPER-CASE letters, and it cannot have spaces.

Contact Status

Description

The name of the contact status code. This is the value held in the ContactStatusCode column in the UA_ContactStatus table.

Default value

[CHANGE ME]

Valid Values

The example contact status types are as follows.

- CSD (campaign send)
- DLV (delivered)
- UNDLV (undelivered)
- CTR (control)

Your Campaign installation may have additional custom contact status types.

Reports | Schemas | Campaign | Custom Attributes | Columns | [Campaign Custom Column]

Use this form to add to the reporting schema any custom campaign attributes that you want to include in your reports.

Column Name

Specifies the name to use in the reporting view or table for the attribute identified in the **Attribute ID** field.

Default value

[CHANGE ME]

Valid Values

The name can be no longer than 18 characters, it must be in all UPPER-CASE letters, and it cannot have spaces.

Attribute ID

Description

The value from the attribute's AttributeID column in the UA_CampAttribute table.

Default value

0

Value Type

Description

The data type of the campaign attribute.

Default value

StringValue

Valid Values

StringValue, NumberValue, DatetimeValue

If this campaign attribute holds a currency value, select NumberValue.

If this campaign attribute's **Form Element Type** was set to Select Box - String in Campaign, select StringValue.

Reports | Schemas | Campaign | Custom Attributes | Columns | [Offer Custom Column]

Use this form to add to the reporting schema any custom offer attributes that you want to include in your reports.

Column Name

Description

Specifies the name to use in the reporting view or table for the attribute identified in the **Attribute ID** field.

Default value

[CHANGE ME]

Valid Values

The name can be no longer than 18 characters, it must be in all UPPER-CASE letters, and it cannot have spaces.

Attribute ID

The value from the attribute's AttributeID column in the UA OfferAttribute table.

Default value

0

Value Type

Description

The data type of the offer attribute.

Default value

StringValue

Valid Values

StringValue, NumberValue, DatetimeValue

If this offer attribute holds a currency value, select NumberValue.

If this offer attribute's **Form Element Type** was set to Select Box - String in Campaign, select StringValue.

Reports | Schemas | Campaign | Custom Attributes | Columns | [Cell Custom Column]

Use this form to add to the reporting schema any custom cell attributes that you want to include in your reports.

Column Name

Description

Specifies the name to use in the reporting view or table for the attribute identified in the **Attribute ID** field.

Default value

[CHANGE ME]

Valid Values

The name can be no longer than 18 characters, it must be in all UPPER-CASE letters, and it cannot have spaces.

Attribute ID

Description

The value from the attribute's AttributeID column in the UA CellAttribute table.

Default value

0

Value Type

Description

The data type of the cell attribute.

Default value

StringValue

Valid Values

StringValue, NumberValue, DatetimeValue

Reports | Schemas | Interact

The Interact reporting schemas reference three separate databases: the design time, run time, and learning databases. Use the properties from this page to specify the JNDI names of the data sources for those databases.

The data sources specified on this page must exist if you want to use the Reporting SQL generation tool to generate scripts that create reporting tables. The SQL generation tool can generate scripts that create reporting views without these data sources, but it cannot validate the scripts.

Note that the database type of the data sources must match the database type you select when you generate the SQL scripts for the views or reporting tables.

Interact Design Datasource (JNDI)

Description

Specifies the name of the JNDI data source that identifies the Interact design time database, which is also the Campaign system tables.

Default value

campaignPartition1DS

Interact Runtime Datasource (JNDI)

Description

Specifies the name of the JNDI data source that identifies the Interact runtime database.

Default value

InteractRTDS

Interact Learning Datasource (JNDI)

Description

Specifies the name of the JNDI data source that identifies the Interact learning database.

Default value

InteractLearningDS

Reports | Schemas | Interact | Interact Performance

The Interact Performance schema yields contact and response history metrics at the channel, channel-offer, channel-segment, channel-interaction point, interactive cell, interactive cell-offer, interactive cell-interaction point, interactive offer, interactive offer-cell and interactive offer-interaction point levels.

Audience Key

Specifies the name of the column that is the Audience Key for the audience level supported by this reporting schema.

Default value

CustomerID

Valid Values

A string value no longer than 255 characters.

If the key includes more than one column, use commas between the column names. For example, ColumnX, ColumnY.

Detailed Contact History Table

Description

Specifies the name of the Detailed Contact History table for the audience level supported by this reporting schema.

Default value

UA DtlContactHist

Response History Table

Description

Specifies the name of the Response History table for the audience level supported by this reporting schema.

Default value

UA ResponseHistory

Over Time Variations

Description

Specifies the calendar time periods used by the "over time" reports supported by this schema.

Default value

Hour, Day

Valid Values

Hour, Day, Week, Month, Quarter, Year

Reports | Schemas | eMessage eMessage Tracking Datasource (JNDI)

Description

Specifies the name of the JNDI data source that identifies the eMessage tracking tables, which are located in the Campaign system tables. This data source must exist if you want to use the Reports SQL generation tool to validate scripts that create reporting tables. The SQL generation tool can generate scripts that create reporting views without this data source, but it cannot validate them.

The database type of this data source must match the database type you select when you generate the SQL scripts for the views or reporting tables.

Default value

Marketing Operations configuration properties

This section describes the IBM Unica Marketing Operations configuration properties on the Configuration page.

Note: Properties in the **Marketing Operations > about** category are for internal use only; you should not edit these values.

Marketing Operations supportedLocales

Description

Specifies the locales available in your installation of IBM Unica Marketing Operations. List only the locales that you are actually using. Each locale you list uses memory on the server. The amount of memory used depends on the size and number of templates.

If you add locales after the initial installation or upgrade, you must run the upgrade servlets again. See upgrade documentation for details.

If you change this value, you must stop and restart your Marketing Operations deployment before the change takes effect.

Default value

en_US

defaultLocale

Description

Specifies the supported locale in which you want IBM Unica Marketing Operations to display for all users, unless explicitly overridden for specific users by Marketing Operations administrators.

If you change this value, you must stop and restart your Marketing Operations deployment before the change takes effect.

Default value

en US

Marketing Operations | Navigation welcomePageURI

Description

The Uniform Resource Identifier of the IBM Unica Marketing Operations index page. This value is used internally by IBM Unica Marketing applications. You should not change this value.

Default value

affiniumPlan.jsp?cat=projectlist

projectDetailpageURI

The Uniform Resource Identifier of the IBM Unica Marketing Operations detail page. This value is used internally by IBM Unica Marketing applications. You should not change this value.

Default value

blank

seedName

Description

Used internally by IBM Unica Marketing applications. You should not change this value.

Default value

Plan

type

Description

Used internally by IBM Unica Marketing applications. You should not change this value.

Default value

Plan

httpPort

Description

The port number used by the application server for connections to the IBM Unica Marketing Operations application.

Default value

7001

httpsPort

Description

The port number used by the application server for secure connections to the IBM Unica Marketing Operations application.

Default value

7001

serverURL

Description

The URL of the IBM Unica Marketing Operations installation.

Default value

http://servername:port/plan

logoutURL

Description

Used internally. You should not change this value.

IBM Unica Marketing Platform uses this value to call the logout handler of each registered application if the user clicks the logout link in suite.

Default value

/uapsysservlet?cat=sysmodules&func=logout

displayName

Description

Used internally.

Default value

Plan

Marketing Operations | About

The **Marketing Operations > About** configuration properties list information about your IBM Unica Marketing Operations installation. You cannot edit these properties.

displayName

Description

The display name of the product.

Default value

IBM Unica Marketing Operations

releaseNumber

Description

The currently installed release.

Default value

8.6.0.x.x

copyright

Description

The copyright year.

Default value

2011

os

Description

The operating system on which IBM Unica Marketing Operations is installed.

Default value

java

Description

The current version of Java.

Default value

support

Description

Read documentation and contact support at https://customercentral.unica.com.

Default value

https://customercental.unica.com

appServer

Description

Default value

blank

otherString

Description

Default value

blank

Marketing Operations | umoConfiguration serverType

Description

Application Server Type. Used for Calendar export.

Default value

WEBLOGIC

Valid Values

WEBLOGIC or WEBSPHERE

usermanagerSyncTime

Description

Time in milliseconds to between scheduled synchronizations with IBM Unica Marketing Platform.

Default value

10800000 milliseconds (3 hours)

firstMonthInFiscalYear

Description

Set to the month that you would like your account fiscal year to begin. The Summary tab for the account contains a view-only table which lists budget information by month for the fiscal years of the account. The first month in this table is determined by this parameter.

January is represented by 0. To have your fiscal year to begin in April, set **firstMonthInFiscalYear** to 3.

Default value

0

Valid Values

Integers 0 to 11

maximumItemsToBeRetainedInRecentVisits

Description

The maximum number of items to save in recent list.

Default value

10

maxLimitForTitleString

Description

The maximum number of characters that can display in a page title. If titles are longer than the specified number, IBM Unica Marketing Operations clips them.

Default value

40

maximumLimitForBulkUploadItems

Description

The maximum number of attachments you can upload at the same time.

Default value

5

workingDaysCalculation

Description

Controls how IBM Unica Marketing Operations calculates durations.

Default value

a11

Valid Values

- Business days only: includes working days only. Does not include weekends and days off.
- Business days + Weekends: includes working days and weekends. Does not include days off.
- Business days + Days off: includes all working days and days off. Does not include weekends.
- all: includes all days in the calendar.

validateAllWizardSteps

Description

When creating a program, project, or request with the wizard, IBM Unica Marketing Operations automatically validates that the required fields on

the current page have values. This parameter controls whether Marketing Operations validates the required fields on all pages (tabs) when a user clicks **Finish**.

Default value

true

Valid Values

- true: Marketing Operations checks the required fields on pages that the user did not visit (except workflow, tracking, and attachments). If a required field is blank, the wizard opens that page and displays an error message.
- false: Marketing Operations does not check validate required fields on pages the user did not visit.

enableRevisionHistoryPrompt

Description

Ensures that users are prompted to add change comments when saving a project/request or approval.

Default value

false

Valid Values

true | false

useForecastDatesInTaskCalendar

Description

Specifies the type of dates used when displaying tasks in calendar view.

Default value

false

Valid Values

- true: uses forecast and actual dates to display tasks.
- false: uses target dates to display tasks.

copyRequestProjectCode

Description

Controls whether you want to carry the Project Code (PID) over from a request to a project. If you set this parameter to false, the project and the request use different codes.

Default value

true

Valid Values

true | false

projectTemplateMonthlyView

Controls whether the monthly view is allowed in the workflow for a project template.

Default value

false

Valid Values

true | false

disableAssignmentForUnassignedReviewers

Description

Specifies how work is assigned by role for approvals. The **disableAssignmentForUnassignedReviewers** parameter controls the behavior of **Assign work by Role** on the People tab for assignment of approvers in workflow approvals.

Default value

false

Valid Values

- true: unassigned reviewers in the People tab are not added to the approval as new steps.
 - Append option: The existing, owner-assigned approvers without an assigned role do not change. New approver steps are not added even if the People tab has reviewers with the role "unassigned."
 - Replace option: The existing owner assigned approvers without a role are replaced with a blank. New approver steps would not be added even if the people tab has reviewers with the role "unassigned."
- false: unassigned reviewers are added to the approval.
 - Append option: All reviewers without a role are appended to the approval as reviewers if the approval has owner assigned steps without defined roles.
 - Replace Option: The existing approvers of approvals are replaced with the unassigned approvers in the People tab.

enableApplicationLevelCaching

Description

Indicates whether application-level caching is enabled or not. For best results in a clustered environment on which multicasting of caching messages is not enabled, consider turning off application level caching for Marketing Operations.

Default value

true

Valid Values

true | false

customAccessLevelEnabled

Description

Determines whether you use custom access levels (project roles) in IBM Unica Marketing Operations.

Default value

true

Valid Values

- true: user access to projects and requests is evaluated according to Object Access Levels and Custom Access Levels (project roles), and tab security is enabled for custom tabs.
- false: user access to projects and requests is evaluated only according to Object Access Levels (object implicit roles), and tab security is turned off for custom tabs.

enableUniqueldsAcrossTemplatizableObjects

Description

Determines whether you use unique internal id's across objects created from templates such as programs, projects, plans, and invoices.

Default value

true

Valid Values

- true enables unique internal id's across all objects created from templates. This way you can use the same table for two different object types to simplify cross object reporting.
- false disables unique internal id's across all objects created from templates.

FMEnabled

Description

Enables and disables the Financial Management Module, which determines whether the Accounts, Invoices, and Budget tabs appear in the product.

Default value

false

Valid Values

true | false

FMProjVendorEnabled

Description

Parameter used to show/hide vendor column for project line items.

Default value

false

Valid Values

true | false

FMPrgmVendorEnabled

Description

Parameter used to show/hide vendor column for program line items.

Default value

false

Valid Values

true | false

Marketing Operations | umoConfiguration | templates templatesDir

Description

Set to the directory that you want to contain all your project template definitions, which are stored in XML files.

Use a fully-qualified path.

Default value

templates

assetTemplatesFile

Description

The XML file that defines the templates for assets. This file must be located in the directory specified by the templatesDir property.

Default value

asset_templates.xml

planTemplatesFile

Description

The XML file that defines the templates for plans. This file must be located in the directory specified by the templatesDir property.

Default value

plan_templates.xml

programTemplatesFile

Description

The XML file that defines the templates for programs. This file must be located in the directory specified by the templatesDir property.

Default value

program_templates.xml

projectTemplatesFile

Description

The XML file that defines the templates for projects. This file must be located in the directory specified by the templatesDir property.

Default value

project templates.xml

invoiceTemplatesFile

The XML file that defines the templates for invoices. This file must be located in the directory specified by the templatesDir property.

Default value

invoice_templates.xml

componentTemplatesFile

Description

The XML file that defines the templates for marketing objects templates. This file must be located in the directory specified by the templatesDir property.

Default value

component templates.xml

metricsTemplateFile

Description

The XML file that defines the templates for metrics. This file must be located in the directory specified by the templatesDir property.

Default value

metric definition.xml

teamTemplatesFile

Description

The XML file that defines the templates for teams. This file must be located in the directory specified by the templatesDir property.

Default value

team templates.xml

offerTemplatesFile

Description

The XML file that defines the templates for offers. This file must be located in the directory specified by the templatesDir property.

Default value

uap_sys_default_offer_comp_type_templates.xml

Marketing Operations | umoConfiguration | attachmentFolders uploadDir

Description

The upload directory where attachments for projects are stored.

Default value

projectattachments

planUploadDir

Description

The upload directory where attachments for plans are stored.

Default value

planattachments

programUploadDir

Description

The upload directory where attachments for programs are stored.

Default value

programattachments

componentUploadDir

Description

The upload directory where attachments for marketing objects are stored.

Default value

componentattachments

taskUploadDir

Description

The upload directory where attachments for tasks are stored.

Default value

taskattachments

approvalUploadDir

Description

The upload directory where approval items are stored.

Default value

approvalitems

assetUploadDir

Description

The upload directory where assets are stored.

Default value

assets

accountUploadDir

Description

The upload directory where attachments for accounts are stored.

Default value

accountattachments

invoiceUploadDir

Description

The upload directory where attachments for invoices are stored.

Default value

invoiceattachments

graphicalRefUploadDir

Description

The upload directory where attribute images are stored.

Default value

graphicalrefimages

templatelmageDir

Description

The upload directory where template images are stored.

Default value

images

recentDataDir

Description

The temporary directory that stores the recent data (serialized) for each user.

Default value

recentdata

workingAreaDir

Description

The temporary directory that stores CSV files that are uploaded during grid imports.

Default value

umotemp

managedListDir

Description

The upload directory where managed list definitions are stored.

Default value

managedList

Marketing Operations | umoConfiguration| email notifyEMailMonitorJavaMailHost

Optional string that specifies either the DNS host name of the email notifications mail server or its dot-formatted IP address; set to the machine name or IP address of your organization's SMTP server.

This parameter is necessary if you have not provided IBM Unica Marketing Operations with an existing JavaMail session that uses the session parametr above and the delegate is marked "Complete."

Default value

[CHANGE-ME]

notifyDefaultSenderEmailAddress

Description

Set to a valid email address. The system uses this address to send emails when there is no valid email address available to send the notification emails.

Default value

[CHANGE-ME]

notifySenderAddressOverride

Description

Use this parameter to specify a standard value for the REPLY-TO and FROM email addresses for notifications. By default, these addresses are populated with the email address of the event owner.

Default value

blank

Marketing Operations | umoConfiguration | markup

IBM Unica Marketing Operations provides markup tools for making comments on attachments. You can use either Adobe Acrobat markup or native Marketing Operations markup. Use the properties in this category to configure which option to use.

markupServerType

Description

Determines which markup option to use.

Default value

MCM

Valid Values

SOAP enables users to edit and view markups in PDF documents. Adobe
Acrobat Standard or Professional are required for markups. If specified,
users cannot view markups made in a web browser with the native
Marketing Operations method.

If you specify SOAP, you must also configure the markupServerURL and useCustomMarkup parameters.

- MCM enables the native Marketing Operations markup method that allows users to edit and view markups in a web browser. If specified, users cannot edit or view markups that made previously in PDF using Adobe Acrobat.
- If blank, the markup function is disabled and the View/Add Markup link does not appear.

markupServerURL

Description

Dependent on markupServerType = SOAP.

Set to the URL for the computer hosting the markup server, including the number of the port the web application server uses for listening. The URL must contain the fully qualified host name.

Default value

http://[SERVER]:[PORT]/plan/services/collabService?wsdl

useCustomMarkup

Description

Determines whether Windows users can send and receive markup comments using the **Acrobat Send Receive Comments** button.

Default value

True

Valid Values

- true: Windows users can use only the Acrobat Send Receive Comments
 button to send and receive markup comments. The
 UMO_Markup_Collaboration.js file must be available in the javascripts
 folder of the client-side Acrobat installation.
 - Dependent on markupServerType = SOAP.
- false: Windows users can use only the Marketing Operations custom **Send Comments** button to send and receive markup comments. They cannot use the Acrobat button and must configure Acrobat to enable the IBM Unica Marketing Operations**Comments** toolbar. For more information about reviewing PDF files, see the *IBM Unica Marketing Operations User's Guide*.

instantMarkupFileConversion

Description

If true, IBM Unica Marketing Operations converts PDF attachments to images as soon as they are uploaded, rather than doing this conversion the first time a user opens the item for markup.

Default value

false

Valid Values

true | false

Marketing Operations | umoConfigurations | grid gridmaxrow

Description

An optional integer to define the maximum number of rows to be retrieved in grids. The default, -1, retrieves all rows.

Default value

-1

reloadRuleFile

Description

An optional boolean parameter indicating whether the grid validation plug-in needs to be reloaded or not.

Default value

true

Valid Values

true | false

gridDataValidationClass

Description

An optional parameter to specify custom grid data validation class. If not specified, the default, built in plug-in is used for grid data validation.

Default value

blank

tvcDataImportFieldDelimiterCSV

Description

Delimiter to be used to parse data while importing in a grid. Default is comma (,).

Default value

, (comma)

maximumFileSizeToImportCSVFile

Description

Represents the maximum file size in MB that can be uploaded while importing comma-separated data for TVC.

Default value

0 (unlimited)

maximumRowsToBeDisplayedPerPageInGridView

Description

Integer parameter specifying number of rows to be displayed per page in grid view.

Default value

100

Valid Values

positive integers

griddataxsd

Description

Name of Grid Data XSD file.

Default value

griddataschema.xsd

gridpluginxsd

Description

Name of Grid plug-ins XSD file.

Default value

gridplugin.xsd

gridrulesxsd

Description

Name of Grid Rules XSD file.

Default value

gridrules.xsd

Marketing Operations | umoConfiguration | workflow hideDetailedDateTime

Description

Optional show/hide parameter for detailed date time in the tasks page.

Default value

false

Valid Values

true | false

daysInPastRecentTask

Description

This parameter determines for how long tasks should be considered "recent." If the task is "active," and started less than X days ago or the task's Target End Date is between today and X days in the past, the task displays as a recent task.

Default value

1Δ

Valid Values

positive integers

daysInFutureUpcomingTasks

Description

This parameter determines how many days in the future to look for upcoming tasks. If the task starts in the next daysInFutureUpcomingTasks or does not end before the current date, it is an upcoming task.

Default value

14

Valid Values

positive integers

beginningOfDay

Description

Begin hour of the working day. This parameter is used to calculate the datetimes in workflow using fractional durations.

Default value

9 (9 AM)

Valid Values

integers 0 to 12

numberOfHoursPerDay

Description

Number of hours per day. This parameter is used to calculate the datetimes in workflow using fractional durations.

Default value

8

Valid Values

integers 1 to 24

mileStoneRowBGColor

Description

Defines the background color for workflow tasks. To specify the value, insert the # character before the six-character Hex code for the color. For example, #0099CC.

Default value

#DDDDDD

Marketing Operations | umoConfiguration | integrationServices enableIntegrationServices

Description

Enables and disables the Integration Services module that can be used by third party users to access IBM Unica Marketing Operations functionality using web services and triggers.

Default value

false

Valid Values

true | false

integrationProcedureDefinitionPath

Description

Optional full file path to the custom procedure definition XML file.

Default value

[PLAN_HOME]/devkits/integration/examples/src/procedure/procedure-plugins.xml

integrationProcedureClasspathURL

Description

URL to the classpath for custom procedures.

Default value

file://[PLAN_HOME]/devkits/integration/examples/classes/

Marketing Operations | umoConfiguration | campaignIntegration

defaultCampaignPartition

Description

When IBM Unica Marketing Operations is integrated with IBM Unica Campaign, this parameter specifies the default Campaign partition if the campaign-partition-id is not defined in the project template.

Default value

partition1

webServiceTimeoutInMilliseconds

Description

Added for Web Service integration API calls. This parameter is used as a timeout for web services API calls.

Default value

1800000 milliseconds (30 minutes)

Marketing Operations | umoConfiguration | reports reportsAnalysisSectionHome

Description

Indicates the home directory for the Analysis Section reports.

Default value

/content/folder[@name='Affinium Plan']

reportsAnalysisTabHome

Description

Indicates the home directory for the Analysis Tab reports.

Default value

/content/folder[@name='Affinium Plan - Object Specific Reports']

cacheListOfReports

Description

This parameter enables/disables caching of list of reports on object instance's analysis page.

Default value

false

Valid Values

true | false

Marketing Operations | umoConfiguration | invoiceRollup invoiceRollupMode

Description

Specifies how rollups occur. Acceptable values are the following.

Default value

immediate

Valid Values

- immediate: rollups occur every time an invoice is marked PAID
- schedule: rollups occur on a scheduled basis

If this parameter is set to schedule, the system uses the following parameters to determine when rollups occur.

- invoiceRollupScheduledStartTime
- invoiceRollupScheduledPollPeriod

invoiceRollupScheduledStartTime

Description

If invoiceRollupMode is schedule, this parameter specifies the poll period in seconds for rollup to occur.

If invoiceRollupMode is immediate, this parameter is not used.

Default value

3600 (1 hour)

invoiceRollupScheduledPollPeriod

Description

If invoiceRollupMode is schedule, this parameter is used as follows.

• If this parameter contains a value (for example, 11:00 pm), that value is the start time for the schedule to start.

• If this parameter is undefined, the rollup schedule starts when the server

If invoiceRollupMode is immediate, this parameter is not used.

Default value

Marketing Operations | umoConfiguration | database fileName

Description

Path to file for loading datasources using JNDI lookup.

Default value

plan_datasources.xml

sqlServerSchemaName

Description

Specifies the database schema to use. This parameter only applies if you are using SQL Server for your IBM Unica Marketing Operations database.

Default value

dbo

thresholdForUseOfSubSelects

Description

Specifies the number of records beyond which a subquery should be used in the IN clause of SQL (for listing pages) instead of the actual entity IDs in the IN clause. Setting this parameter improves performance for IBM Unica Marketing Operations installations that have a lot of application data. As a best practice, do not change this value unless you encounter performance issues. If the parameter is missing or commented out, the database behaves as if the threshold was set to a very large value.

Default value

3000

commonDataAccessLayerFetchSize

Description

This parameter specifies resultset fetch size for certain performance sensitive, critical queries.

Default value

0

commonDataAccessLayerMaxResultSetSize

Description

This parameter specifies maximum resultset size for certain performance sensitive, critical queries.

Default value

-1

useDBSortForAllList

Description

This parameter is used when configuring ALL IBM Unica Marketing Operations List Handlers. Use USE_DB_SORT_FOR_[MODULE]_LIST to override particular list's paging behavior.

Default value

true

Valid Values

- true : get one page of list data from database at a time.
- false: cache all list data.

useDBSortForPlanList

Description

This parameter is used to configure the Plan List Handler.

Default value

true

Valid Values

- true : get one page of list data from database at a time.
- false: cache all list data.

useDBSortForProjectList

Description

This parameter is used to configure the Project List Handler.

Default value

true

Valid Values

- true : get one page of list data from database at a time.
- false: cache all list data.

useDBSortForTaskList

Description

This parameter is used to configure the Task List Handler.

Default value

true

Valid Values

- true : get one page of list data from database at a time.
- false: cache all list data.

useDBSortForProgramList

Description

This parameter is used to configure the Program List Handler.

Default value

true

Valid Values

- true : get one page of list data from database at a time.
- false: cache all list data.

useDBSortForApprovalList

Description

This parameter is used to configure the Approval List Handler.

Default value

true

Valid Values

- true : get one page of list data from database at a time.
- false: cache all list data.

useDBSortForInvoiceList

Description

This parameter is used to configure the Invoice List Handler.

Default value

true

Valid Values

- true : get one page of list data from database at a time.
- false: cache all list data.

useDBSortForAlerts

Description

This parameter is used to configure the Alerts List Handler.

Default value

true

Valid Values

- true : get one page of list data from database at a time.
- false: cache all list data.

Marketing Operations | umoConfiguration | listingPages listItemsPerPage

Description

Specifies how many items (rows) are displayed in one list page. This value should be greater than 0.

Default value

10

IistPageGroupSize

Description

Specifies the size of visible page numbers in the list navigator in the list page. For example, pages 1-5 is a page group. This value should be greater than 0.

Default value

5

maximumItemsToBeDisplayedInCalendar

Description

The maximum number of objects (plans, programs, projects, or tasks) the system displays on calendars. Use this parameter to restrict a user's view of calendars to a specific number of objects. The number 0 indicates that there is no restriction.

Default value

0

listDisplayShowAll

Description

Display "Show All" link on listing pages.

Default value

false

Valid Values

true | false

Marketing Operations | umoConfiguration | objectCodeLocking enablePersistentObjectLock

Description

enablePersistentObjectLock must be set to true if IBM Unica Marketing Operations is deployed in a clustered environment. The object lock information will be persistent in database.

Default value

false

Valid Values

true | false

lockProjectCode

Description

Determines whether users can edit the Project Code or PID on the **Project Summary Edit** tab.

Default value

true

Valid Values

- true: enables locking
- false: disables locking

lockProgramCode

Description

Determines whether users can edit the Program Code or PID on the **Program Summary Edit** tab.

Default value

true

Valid Values

true: enables lockingfalse: disables locking

lockPlanCode

Description

Determines whether users can edit the Plan Code or PID on the **Plan Summary Edit** tab.

Default value

true

Valid Values

true: enables lockingfalse: disables locking

lockMarketingObjectCode

Description

Determines whether users can edit the Marketing Object Code or PID on the Marketing Object Summary Edit tab.

Default value

true

Valid Values

true: enables lockingfalse: disables locking

lockAssetCode

Description

Determines whether users can edit the Asset Code or PID on the **Asset Summary Edit** tab.

Default value

true

Valid Values

true: enables lockingfalse: disables locking

Marketing Operations | umoConfiguration | thumbnailGeneration

trueTypeFontDir

Description

Specifies the directory where the True Type fonts are located. This parameter is required for thumbnail generation on non-Windows platforms using Aspose. For Windows installations, this parameter is optional.

Default value

blank

coreThreadPoolSize

Description

Specifies the number of persistent threads kept in the thread pool for thumbnail generator threads.

Default value

5

maxThreadPoolSize

Description

Specifies the maximum number of threads allowed in the thread pool for thumbnail generator threads.

Default value

10

threadKeepAliveTime

Description

Parameter to configure the keep-alive time for thumbnail generator threads.

Default value

60

threadQueueSize

Description

Parameter to configure the thread queue size for thumbnail generator threads.

Default value

20

Marketing Operations | umoConfiguration | notifications notifyPlanBaseURL

Description

The URL for your IBM Unica Marketing Operations deployment, including the host name and port number. Marketing Operations includes this URL in notifications that contain links to other information in Marketing Operations .

Note: Do not use "localhost" as a server name unless your mail client and IBM Unica Marketing Operations server are running on same machine.

Default value

http://[SERVER]:[PORT]/plan/affiniumplan.jsp

notifyDelegateClassName

Description

The fully-qualified Java class name of the delegate implementation to be instantiated by the service. This class must implement the com.unicapcorp.afc.service.IServiceImpl interface. Will default to a local implementation if not specified.

Default value

blank

notifyIsDelegateComplete

Description

Optional boolean string indicating if the delegate implementation is complete. Defaults to "true" if not specified.

Default value

true

Valid Values

true | false

notifyEventMonitorStartTime

Description

Specifies when the Notify Monitor should begin processing for the first time after the IBM Unica Marketing Operations product is started. Format the value according to the short version of the java.text.DateFormat class for the current locale. For example, in US English locale, a valid string might be 11:45 PM.

Default value

Immediately after Marketing Operations is started.

notifyEventMonitorPollPeriod

Description

Defines the approximate time, in seconds, for the event monitor to sleep between polls. Events will be accumulated in the event queue between polling periods; shorter times will process notifications sooner, but may impose more system overhead. If you erase the default and leave the value blank, the poll period defaults to some short period of time, usually under a minute.

Default value

5

notifyEventMonitorRemoveSize

Description

Specifies the number of events to remove from queue in one shot. The event monitor will continue removing events from the event queue in increments specified by this value until none are left.

Note: Setting this value to something other than 1 may increase event processing performance, but risks losing events if the service host goes down before all the removed events can be processed.

Default value

10

alertCountRefreshPeriodInSeconds

Description

Specifies, in seconds, the system-wide alert count refresh period for the alerts count. This count appears near the top of the navigation bar after a user logs in.

Note: Changing the refresh period to poll faster may have performance implications in a multi-user environment.

Default value

180 (3 minutes)

Marketing Operations | umoConfiguration | notifications | email

notifyEMailMonitorStartTime

Description

Specifies when the Email Monitor should begin processing for the first time after the IBM Unica Marketing Operations product is started. Format the value according to the short version of the java.text.DateFormat class for the current locale. For example, in US English locale, a valid string might be 11:59 PM.

Default value

Immediately after IBM Unica Marketing Operations is started.

notifyEMailMonitorPollPeriod

Description

Defines the approximate time, in seconds, for the email monitor to sleep between polls.

Note: As with events, emails will accumulate in the queue between polling periods; shorter polling times will send emails sooner, but may increase system overhead.

Default value

notifyEMailMonitorJavaMailSession

Description

JNDI name of an existing, initialized JavaMail Session to use for email notifications. If not specified and the delegate is marked Complete, then the JavaMail host parameter must be supplied so IBM Unica Marketing Operations can create a session.

Default value

blank

notifyEMailMonitorJavaMailProtocol

Description

Specifies the mail server transport protocol to use for email notifications.

Default value

smtp

notifyEMailMonitorRemoveSize

Description

Specifies the number of emails to remove from queue at one time. The email monitor will continue incrementally removing emails from the email queue until none remain.

Note: Setting a value other than 1 may increase email processing performance, but you risk losing emails if the service host goes down before all the removed emails are processed.

Default value

10

notifyEMailMonitorMaximumResends

Description

Specifies the maximum number of times the system attempts to send an email message that failed in the first attempt to send it. When a send fails, the email is put back on the queue unless it has already reached the maximum attempts allowed by this parameter.

For example, if the email monitor is set to poll every 60 seconds, then setting maximumResend to 60 will cause the email monitor to retry every minute, once in each poll, for up to an hour. A value of 1440 (24x60) will cause retry every minute for up to 24 hours.

Default value

1440

showUserNameInEmailNotificationTitle

Description

Specifies whether the IBM Unica Marketing Operations notification and alert systems includes the user name in the **From** field of email notifications.

Note: This setting is applicable only to emails sent by the notification and alert systems in IBM Unica Marketing Operations.

Default value

false

Valid Values

- true: Marketing Operations appends the user name to the title of the message and displays both in the **From** field of the email
- false: Marketing Operations displays only the message title in the From field

notifyEMailMonitorJavaMailDebug

Description

Specifies if JavaMail debug mode should be set.

Default value

false

Valid Values

- true : enables JavaMail debug.
- false: disables debug tracing.

Marketing Operations | umoConfiguration | notifications | project

notifyProjectAlarmMonitorStartTime

Description

Specifies when the project alarm monitorsr should begin processing for the first time after the IBM Unica Marketing Operations product is started. Format the value according to the short version of the java.text.DateFormat class for the current locale. For example, in US English locale, a valid string might be 11:59 PM. If you erase the default and leave the value blank, this monitor starts immediately after you create it.

Default value

10:00 PM

notifyProjectAlarmMonitorPollPeriod

Description

Defines the approximate time, in seconds, for the project and program alarm monitors to sleep between polls.

Default value

60

notifyProjectAlarmMonitorScheduledStartCondition

Description

Defines the number of days before a project's start date that IBM Unica Marketing Operations should start sending start notifications to users.

Note: If this value is -1, then Marketing Operations does not send these notifications.

Default value

1

notifyProjectAlarmMonitorScheduledEndCondition

Description

Defines the number of days before a project's end date when IBM Unica Marketing Operations should start sending end notifications to users.

Note: If this value is -1, then Marketing Operations does not send these notifications.

Default value

3

notifyProjectAlarmMonitorTaskScheduledStartCondition

Description

Defines the number of days before a task's start date that IBM Unica Marketing Operations should start sending start notifications to users.

Note: If this value is -1, then Marketing Operations does not send these notifications.

Default value

1

notify Project Alarm Monitor Task Scheduled End Condition

Description

Defines the number of days before a task's end date when IBM Unica Marketing Operations should start sending end notifications to users.

Note: If this value is -1, then Marketing Operations does not send these notifications.

Default value

3

notifyProjectAlarmMonitorTaskLateCondition

Description

Defines the number of days after a task's start date when IBM Unica Marketing Operations should begin notifying users that a task did not start.

Note: If this value is -1, then Marketing Operations does not send these notifications.

Default value

3

notifyProjectAlarmMonitorTaskOverdueCondition

Description

Defines the number of days after a task's end date when IBM Unica Marketing Operations should begin notifying users that a task did not finish.

Note: If this value is -1, then Marketing Operations does not send these notifications.

Default value

notifyProjectAlarmMonitorTaskScheduledMilestoneCondition

Description

Defines the number of days after a task milestone's start date when IBM Unica Marketing Operations should start sending notifications.

Note: If this value is -1, then Marketing Operations does not send these notifications.

Default value

1

Marketing Operations | umoConfiguration | notifications | projectRequest

notifyRequestAlarmMonitorLateCondition

Description

Defines the number of days before IBM Unica Marketing Operations should send a notification that the request is late.

Note: If this value is -1, then Marketing Operations does not send these notifications.

Default value

notifyRequestAlarmMonitorScheduledEndCondition

Description

Defines the number of days before a request's end date when IBM Unica Marketing Operations should start sending end notifications to users.

Note: If this value is -1, then Marketing Operations does not send these notifications.

Default value

Marketing Operations | umoConfiguration | notifications | program

notifyProgramAlarmMonitorScheduledStartCondition

Description

Defines the number of days before a program's start date when IBM Unica Marketing Operations should start sending notifications to users.

Note: If this value is -1, then Marketing Operations does not send these notifications.

Default value

1

notifyProgramAlarmMonitorScheduledEndCondition

Description

Defines the number of days before a program's end date when IBM Unica Marketing Operations should start sending end notifications to users.

Note: If this value is -1, then Marketing Operations does not send these notifications.

Default value

3

Marketing Operations | umoConfiguration | notifications | marketingObject

notifyComponentAlarmMonitorScheduledStartCondition

Description

Specifies the number of days before a marketing object's start date when IBM Unica Marketing Operations should start sending notifications to users.

Note: If this value is -1, then Marketing Operations does not send these notifications.

Default value

1

notifyComponentAlarmMonitorScheduledEndCondition

Description

Specifies the number of days before a marketing object's end date when IBM Unica Marketing Operations should start sending end notifications to users.

Note: If this value is -1, then Marketing Operations does not send these notifications.

Default value

Marketing Operations | umoConfiguration | notifications | approval

notifyApprovalAlarmMonitorStartTime

Description

Specifies when the approval alarm monitor should begin processing for the first time after the IBM Unica Marketing Operations product is started. Format the value according to the short version of the java.text.DateFormat class for the current locale. For example, in US English locale, a valid string might be 11:59 PM. If you delete the default and leave this value blank, the monitor starts immediately after it is created.

Note: For best results, configure the alarm monitors to start during off-peak hours and stagger their start times to spread out the data processing load.

Default value

9:00 PM

notifyApprovalAlarmMonitorPollPeriod

Description

Specifies the approximate time, in seconds, for the approval alarm monitor to sleep between polls.

Default value

60

notifyApprovalAlarmMonitorLateCondition

Description

Specifies the number of days after an approval's start date when IBM Unica Marketing Operations should begin notifying users that the approval is late.

Note: If this value is -1, then Marketing Operations does not send these notifications.

Default value

3

notifyApprovalAlarmMonitorScheduledEndCondition

Description

Specifies the number of days before an approval's end date when IBM Unica Marketing Operations should begin sending end notifications to

Note: If this value is -1, then Marketing Operations does not send these notifications.

Default value

Marketing Operations | umoConfiguration | notifications | asset

notifyAssetAlarmMonitorStartTime

Description

Specifies when the Asset Alarm Monitor should begin processing for the first time after the IBM Unica Marketing Operations product is started. Format the value according to the short version of the java.text.DateFormat class for the current locale. For example, in US English locale, a valid string might be 11:59 PM. If you delete the default and leave this value blank, the monitor starts immediately after it is created.

Note: For best results, configure the alarm monitors to start during off-peak hours and stagger their start times to spread out the data processing load.

Default value

11:00 PM

notifyAssetAlarmMonitorPollPeriod

Description

Specifies the time, in seconds, for the asset alarm monitor to sleep between polls.

Default value

60

notifyAssetAlarmMonitorExpirationCondition

Description

Specifies the number of days before an asset is going to expire when IBM Unica Marketing Operations should notify users that the asset is about to expire.

Note: If this value is -1, Marketing Operations does not check for expiration.

Default value

3

Marketing Operations | umoConfiguration | notifications | invoice

notifyInvoiceAlarmMonitorStartTime

Description

Specifies when the invoice alarm monitor should begin processing for the first time after the IBM Unica Marketing Operations product is started. Format the value according to the short version of the java.text.DateFormat class for the current locale. For example, in US English locale, a valid string might be 11:59 PM. If you delete the default and leave the value blank, the monitor starts immediately after you create it.

Note: For best results, configure the alarm monitors to start during off-peak hours and to stagger their start times to spread out the data processing load.

Default value

9:00 PM

notifyInvoiceAlarmMonitorDueCondition

Description

Specifies the number of days when IBM Unica Marketing Operations should start notifying users that an invoice is becoming due.

Note: If this value is -1, then Marketing Operations does not send these notifications.

Default value

5

Campaign configuration properties

This section describes the Campaign configuration properties found on the Configuration page.

Campaign

These configuration properties specify the component applications and locales that your installation of Campaign supports.

currencyLocale

Description

The currencyLocale property is a global setting that controls how currency is displayed in the Campaign web application, regardless of the display locale.

Important: No currency conversion is performed by Campaign when the display locale changes (for example, if the multi-locale feature is implemented and the display locale changes based on user-specific locales). You must be aware that when a locale is switched, for example, from English US, in which a currency amount is, for example, US\$10.00, to a French locale, the currency amount is unchanged (10,00) even if the currency symbol changes with the locale.

Default value

en US

supportedLocales

Description

The supportedLocales property specifies the locales or language—locale pairs that Campaign supports. The value of this property is set by the installer when you install Campaign.

Default value

All languages/locales into which Campaign has been localized.

defaultLocale

Description

The defaultLocale property specifies which of the locales specified in the supportedLocales property is considered the default display locale for Campaign. The value of this property is set by the installer when you install Campaign.

Default value

en

acolnstalled

Path

Description

The acoInstalled property specifies whether Optimize is installed.

When Optimize is installed and configured, set the value to yes, which causes the Optimize process to be displayed in flowcharts. If the value is true and Optimize is not installed or configured, the process is displayed but disabled (grayed out).

Default value

false

Valid Values

false and true

collaborateInstalled

Description

The collaborateInstalled property specifies whether Distributed Marketing is installed. When Distributed Marketing is installed and configured, set the value to true, which causes the Distributed Marketing features to be available in the Campaign user interface.

Default value

false

Valid Values

true | false

Campaign | Collaborate

The properties in this category pertain to Distributed Marketing configuration.

CollaborateIntegrationServicesURL

Description

The CollaborateIntegrationServicesURL property specifies the server and port number of Distributed Marketing. This URL is used by Campaign when a user publishes a flowchart to Distributed Marketing.

Default value

http://localhost:7001/collaborate/services/
CollaborateIntegrationServices/1.0

Campaign | navigation

Some of the properties in this category are used internally and should not be changed.

welcomePageURI

Description

The welcomePageURI property is used internally by IBM applications. It specifies the Uniform Resource Identifier of the Campaign index page. You should not change this value.

Default value

No default value defined.

seedName

Description

The seedName property is used internally by IBM applications. You should not change this value.

Default value

No default value defined.

type

Description

The Campaign > navigation > type property is used internally by IBM applications. You should not change this value.

Default value

No default value defined.

httpPort

Description

This property specifies the port used by the Campaign web application server. If your installation of Campaign uses a port that is different from the default, you must edit the value of this property.

Default value

7001

httpsPort

Description

If SSL is configured, this property specifies the port used by the Campaign web application server for secure connections. If your installation of Campaign uses a secure port that is different from the default, you must edit the value of this property.

Default value

serverURL

Description

The Campaign > navigation > serverURL property specifies the URL used by Campaign. If your installation of Campaign has a URL that is different from the default, you should edit the value as follows:

http://machine_name_or_IP_address:port_number/context-root

Default value

http://localhost:7001/Campaign

serverURLInternal

Path

Description

The serverURLInternal property specifies the URL for the Campaign web application when SiteMinder is used. If the property is empty, the value in the serverURL property is used. If you use SiteMinder, you must set this value to the URL for the Campaign web application server, formatted as follows:

http://machine name or IP address:port number/context-root

Default value

No default value defined.

campaignDetailPageURI

Description

The campaignDetailPageURI property is used internally by IBM applications. It specifies the Uniform Resource Identifier of the Campaign detail page. You should not change this value.

Default value

campaignDetails.do?id=

flowchartDetailPageURI

Description

The flowchartDetailPageURI property is used to construct a URL to navigate to the details of a flowchart in a specific campaign. You should not change this value.

Default value

flowchartDetails.do?campaignID=&id=

offerDetailPageURI

Description

The offerDetailPageURI property is used to construct a URL to navigate to the details of a specific offer. You should not change this value.

Default value

offerDetails.do?id=

offerlistDetailPageURI

Description

The offerlistDetailPageURI property is used to construct a URL to navigate to the details of a specific offer list. You should not change this value.

Default value

displayOfferList.do?offerListId=

displayName

Description

The displayName property specifies the link text used for the Campaign link in the drop-down menu that exists in the GUI of each IBM product.

Default value

Campaign

Campaign | caching

The properties in the caching category specify the length of time that cached data for channels, initiatives, campaigns, sessions, and offers is retained.

offerTemplateDataTTLSeconds

Description

The offerTemplateDataTTLSeconds property specifies the length of time, in seconds, that the system retains the Offer Template cache data (Time to Live). An empty value means the cache data is never purged.

Default value

600 (10 minutes)

campaignDataTTLSeconds

Description

The campaignDataTTLSeconds property specifies the length of time, in seconds, that the system retains the Campaign cache data (Time to Live). An empty value means the cache data is never purged.

Default value

600 (10 minutes)

sessionDataTTLSeconds

Description

The sessionDataTTLSeconds property specifies the length of time, in seconds, that the system retains the Session cache data (Time to Live). An empty value means the cache data is never purged.

Default value

600 (10 minutes)

folderTreeDataTTLSeconds

Description

The folderTreeDataTTLSeconds property specifies the length of time, in seconds, that the system retains the Folder Tree cache data (Time to Live). An empty value means the cache data is never purged.

Default value

600 (10 minutes)

attributeDataTTLSeconds

Description

The attributeDataTTLSeconds property specifies the length of time, in seconds, that the system retains the Offer Attribute cache data (Time to Live). An empty value means the cache data is never purged.

Default value

600 (10 minutes)

initiativeDataTTLSeconds

Description

The initiativeDataTTLSeconds property specifies the length of time, in seconds, that the system retains the Initiative cache data (Time to Live). An empty value means the cache data is never purged.

Default value

600 (10 minutes)

offerDataTTLSeconds

Description

The offerDataTTLSeconds property specifies the length of time, in seconds, that the system retains the Offer cache data (Time to Live). An empty value means the cache data is never purged.

Default value

600 (10 minutes)

segmentDataTTLSeconds

Description

The segmentDataTTLSeconds property specifies the length of time, in seconds, that the system retains the Segment cache data (Time to Live). An empty value means the cache data is never purged.

Default value

600 (10 minutes)

Campaign | partitions

This category contains properties used to configure all Campaign partitions, including the default partition, which is named partition1. One category should be created for each Campaign partition. This section describes the properties in the partition[n] category, which apply to all partitions you configure in Campaign.

Campaign | partitions | partition[n] | eMessage

Properties in this category allow you to define characteristics of recipient lists and specify the location of resources that upload the lists to IBM Unica Hosted Services.

eMessagePluginJarFile

Description

Complete path to the location of the file that operates as the Recipient List Uploader (RLU). This plug-in to Campaign uploads OLT data and associated metadata to the remote services hosted by IBM. The location you specify must be the full local directory path in the file system for the machine that hosts the Campaign web application server.

The IBM installer populates this setting automatically for the default partition when you run the installer. For additional partitions, you must configure this property manually. Because there is only one RLU for each eMessage installation, all partitions must specify the same location for the

Do not change this setting unless IBM instructs you to do so.

Default value

No default value defined.

Valid Values

Full local directory path to the machine where you installed the Campaign web server.

defaultSeedInterval

Description

The number of messages between seed messages if defaultSeedType is Distribute list.

Default value

1000

defaultSeedType

Description

The default method that eMessage uses to insert seed addresses into a recipient list.

Default value

Distribute IDS

Valid Values

- Distribute IDS Distribute IDs evenly, based on the size of the recipient list and the number of seed addresses available, inserts seed addresses at equal intervals throughout the entire recipient list.
- Distribute list Insert seed address for every defaultSeedInterval IDs in main list. Inserts the entire list of available seed addresses at specified intervals throughout the recipient list. You must specify the interval between insertion points.

oltTableNamePrefix

Description

Used in the generated schema for the output list table. You must define this parameter.

Default value

OLT

Valid Values

The prefix can contain no more than 8 alphanumeric or underscore characters, and must start with a letter.

oltDimTableSupport

Description

This configuration parameter controls the ability to add dimension tables to output list tables (OLT) created in the eMessage schema. Dimension tables are required to use advanced scripting for email to create data tables in email messages.

The default setting is False. You must set this property to True so that marketers can create dimension tables when they use the eMessage process to define a recipient list. For more information about creating data tables and using advanced scripts for email, see the *IBM Unica eMessage User's Guide*.

Default value

False

Valid Values

True | False

Campaign | partitions | partition[n] | reports

These configuration properties define folders for reports.

offerAnalysisTabCachedFolder

Description

The offerAnalysisTabCachedFolder property specifies the location of the folder that contains the specification for bursted (expanded) offer reports listed on the Analysis tab when you reach it by clicking the Analysis link on the navigation pane. The path is specified using XPath notation.

Default value

```
/content/folder[@name='Affinium Campaign - Object Specific
Reports']/folder[@name='offer']/folder[@name='cached']
```

segmentAnalysisTabOnDemandFolder

Description

The segmentAnalysisTabOnDemandFolder property specifies the location of the folder that contains the segment reports listed on the Analysis tab of a segment. The path is specified using XPath notation.

Default value

```
/content/folder[@name='Affinium Campaign - Object Specific
Reports']/folder[@name='segment']/folder[@name='cached']
```

offerAnalysisTabOnDemandFolder

Description

The offerAnalysisTabOnDemandFolder property specifies the location of the folder that contains the offer reports listed on the Analysis tab of an offer. The path is specified using XPath notation.

Default value

```
/content/folder[@name='Affinium Campaign - Object Specific
Reports']/folder[@name='offer']
```

segmentAnalysisTabCachedFolder

Description

The segmentAnalysisTabCachedFolder property specifies the location of the folder that contains the specification for bursted (expanded) segment reports listed on the Analysis tab when you reach it by clicking the Analysis link on the navigation pane. The path is specified using XPath notation.

Default value

```
/content/folder[@name='Affinium Campaign - Object Specific
Reports']/folder[@name='segment']
```

analysisSectionFolder

Description

The analysisSectionFolder property specifies the location of the root folder where report specifications are stored. The path is specified using XPath notation.

Default value

/content/folder[@name='Affinium Campaign']

campaignAnalysisTabOnDemandFolder

Description

The campaignAnalysisTabOnDemandFolder property specifies the location of the folder that contains the campaign reports listed on the Analysis tab of a campaign. The path is specified using XPath notation.

Default value

```
/content/folder[@name='Affinium Campaign - Object Specific
Reports']/folder[@name='campaign']
```

campaignAnalysisTabCachedFolder

Description

The campaignAnalysisTabCachedFolder property specifies the location of the folder that contains the specification for bursted (expanded) campaign reports listed on the Analysis tab when you reach it by clicking the Analysis link on the navigation pane. The path is specified using XPath notation.

Default value

```
/content/folder[@name='Affinium Campaign - Object Specific
Reports']/folder[@name='campaign']/folder[@name='cached']
```

campaignAnalysisTabEmessageOnDemandFolder

Description

The campaignAnalysisTabEmessageOnDemandFolder property specifies the location of the folder that contains the eMessage reports listed on the Analysis tab of a campaign. The path is specified using XPath notation.

Default value

/content/folder[@name='Affinium Campaign']/folder[@name='eMessage
Reports']

campaignAnalysisTabInteractOnDemandFolder

Description

Report server folder string for Interact reports.

Default value

/content/folder[@name='Affinium Campaign']/folder[@name='Interact Reports']

Availability

This property is applicable only if you have installed Interact.

interactiveChannelAnalysisTabOnDemandFolder

Description

Report server folder string for Interactive Channel analysis tab reports

Default value

/content/folder[@name='Affinium Campaign - Object Specific Reports']/folder[@name='interactive channel']

Availability

This property is applicable only if you have installed Interact.

Campaign | partition[n] | validation

The Validation Plugin Development Kit (PDK), delivered with Campaign, allows third parties to develop custom validation logic for use in Campaign. Properties in the partition[n] > validation category specify the classpath and class name of the custom validation program, and an optional configuration string.

validationClass

Description

The validationClass property specifies the name of the class used for validation in Campaign. The path to the class is specified in the validationClasspath property. The class must be fully qualified with its package name.

For example:

com.unica.campaign.core.validation.samples.SimpleCampaignValidator indicates the SimpleCampaignValidator class from the sample code.

This property is undefined by default, which causes Campaign to perform no custom validation.

Default value

No default value defined.

validationConfigString

Description

The validationConfigString property specifies a configuration string that is passed into the validation plugin when Campaign loads it. The use of the configuration string may vary, depending on the plugin used.

This property is undefined by default.

Default value

No default value defined.

validationClasspath

Description

The validationClasspath property specifies the path to the class used for custom validation in Campaign.

You may specify the path as follows:

- The value may be either full path or a relative path. If the path is not an absolute path, the behavior depends on the application server that is running Campaign. WebLogic uses the path to the domain work directory which by default is
 - c:\bea\user projects\domains\mydomain.
- If the path ends in a slash (forward slash / for UNIX or backslash \ for Windows), then Campaign assumes the path is to a directory that contains the Java plug-in class that should be used. If the path does not end in a slash, then Campaign assumes that it is the name of a jar file that contains the java class. For example: The value /opt/affinium/campaign/pdk/lib/validation.jar is the path on a UNIX platform that would point to the jar file that comes out of the box with the plug-in developer kit.

This property is undefined by default, which causes the property to be ignored.

Default value

No default value defined.

Campaign | partitions | partition[n] | audienceLevels | audienceLevel

The partition[n] > audienceLevels category contains sub-categories and properties that are created and populated when a user creates audience levels in Campaign. You should not edit properties in this category.

Properties in the partition[n] > audienceLevels > audienceLevel category specify the number of fields in the audience level and the name of an audience level. These properties are populated when a user creates audience levels udience levels in Campaign. You should not edit properties in this category.

numFields

Description

This property is populated when a user creates audience levels on the Administration page in Campaign. You should not edit this property.

Default value

No default value defined.

audienceName

Description

This property is populated when a user creates audience levels on the Administration page in Campaign. You should not edit this property.

Default value

No default value defined.

Campaign | partitions | partition[n] | audienceLevels | audienceLevel | field[n]

Properties in the this category define an audience level field. These properties are populated when a user creates audience levels on the Administration page in Campaign You should not edit properties in this category.

type

Description

The partition[n] > audienceLevels > audienceLevel > field[n] > type property is populated when a user creates audience levels on the Administration page in Campaign. You should not edit this property.

Default value

No default value defined.

name

Description

The partition[n] > audienceLevels > audienceLevel > field[n] > name property is populated when a user creates audience levels on the Administration page in Campaign. You should not edit this property.

Default value

No default value defined.

Campaign | Partitions | partition[n] | dataSources

Properties in this category configure how Campaign interacts with databases, including its own system tables. These properties specify the databases that Campaign can access and many aspects of how queries are formed.

Each data source that you add in Campaign is represented by a category under partition[n] > dataSources > [DATA_SOURCE_NAME].

Note: The Campaign system tables data source for each partition must be named UA_SYSTEM_TABLES in the Marketing Platform, and a dataSources > UA_SYSTEM_TABLES category must exist in the Configuration page for every Campaign partition.

AccessLibrary

Description

Campaign chooses its data source access library according to the data source type. For example, libora4d.so is used for Oracle connectivity, while libdb24d.so is used for DB2 connectivity. In most cases, the default selections are appropriate. However, the AccessLibrary property can be changed if the default value proves to be incorrect in your Campaign environment. For example, 64-bit Campaign provides two ODBC access libraries: one appropriate for ODBC data sources compatible with the unixODBC implementation (libodb4d.so, used by Campaign to access, for example, Informix[®]), and the other compatible with the DataDirect implementation (libodb4dDD.so, used by Campaign to access, for example, Teradata).

Additional libraries for AIX®

Description

Campaign includes two additional libraries for AIX ODBC driver managers that support the ODBC ANSI API rather than the ODBC Unicode API:

- libodb4dAO.so (32- and 64-bit) ANSI-only library for unixODBC-compatible implementations
- libodb4dDDAO.so (64-bit only) ANSI-only library for DataDirect-compatible implementations

If you determine that the default access library should be overridden (for example, if you purchase a DataDirect driver manager and driver for Informix), set this parameter as required (in the example, to libodb4dDD.so, overriding the default selection of libodb4d.so).

Default value

No default value defined.

AliasPrefix

Description

The AliasPrefix property specifies the way Campaign forms the alias name that Campaign creates automatically when using a dimension table and writing to a new table.

Note that each database has a maximum identifier length; check the documentation for the database you are using to be sure that the value you set does not exceed the maximum identifier length for your database.

Default value

Α

AllowBaseJoinsInSelect

Description

Determines whether Campaign attempts to perform a SQL join of base tables (from the same data source) used in a Select process; otherwise, the equivalent join is performed on the Campaign server.

Default value

TRUE

Valid Values

TRUE | FALSE

AllowSegmentUsingSQLCase

Description

The AllowSegmentUsingSQLCase property specifies whether the Campaign Segment process consolidates multiple SQL statements into a single SQL statement, when specific configuration conditions are met.

Setting this property to TRUE results in significant performance improvements when all of the following conditions are met:

- · Segments are mutually exclusive.
- All segments come from a single table.
- Criteria for each segment are based on the IBM macro language.

In this case, Campaign generates a single SQL CASE statement to perform segmentation, followed by segment-by-field processing on the Campaign application server.

Default value

TRUE

Valid Values

TRUE | FALSE

AllowTempTables

Description

The AllowTempTables property specifies whether Campaign creates temporary tables in the database. Creating temporary tables can significantly improve the performance of campaigns. When the value is TRUE, temporary tables are enabled.

When temporary tables are enabled, each time a query is issued against the database (for example, by the Segment process), the resulting IDs are written in a temporary table in the database. When an additional query is issued, Campaign may use that temporary table to retrieve rows from the database.

If temporary tables are not enabled, Campaign retains the selected IDs in the server memory. The additional query retrieves IDs from the database and matches them to the IDs in server memory.

For more information about controlling temporary table joins, see MaxTempTableJoinPctSelectAll and MaxTempTableJoinPctWithCondition.

You must have appropriate privileges to write in the database to use temporary tables. This is determined by the database login you provide when you connect to the database.

Default value

TRUE

ASMSaveDBAuthentication

Description

The ASMSaveDBAuthentication property specifies whether, when you log in to Campaign and map a table in a data source you have not previously logged in to, Campaign saves your user name and password in IBM Unica Marketing.

If you set this property to TRUE, Campaign does not prompt you for a user name and password when you log in to the data source. If you set this property to FALSE, Campaign prompts you for a user name and password each time you log in to the data source.

Default value

TRUE

Valid Values

TRUE | FALSE

ASMUserForDBCredentials

Description

The ASMUserForDBCredentials property specifies the IBM Unica Marketing user name assigned to the Campaign system user (required for accessing the Campaign system tables).

This property is undefined by default.

Default value

No default value defined.

BulkInsertBlockSize

Description

The BulkInsertBlockSize property defines the maximum size of a data block, in number of records, that Campaign passes to the database at a time.

Default value

100

BulkInsertRequiresColumnType

Description

The BulkInsertRequiresColumnType property is required to support Data Direct ODBC data sources only. Set this property to TRUE for Data Direct ODBC data sources when using bulk (array) inserts. Set the property to FALSE to be compatible with most other ODBC drivers.

Default value

FALSE

BulkReaderBlockSize

Description

The BulkReaderBlockSize property defines the size of a data block, in number of records, that Campaign reads from the database at a time.

Default value

2500

ConditionalSQLCloseBracket

Description

The Conditional SQLCloseBracket property specifies the type of bracket used to indicate the end of a conditional segment in raw SQL custom macros. Conditional segments enclosed within the brackets specified by the Conditional SQLOpenBracket and Conditional SQLCloseBracket properties are used only if temp tables exist, and are ignored if there are no temp tables.

Default value

} (closing curly brace)

ConditionalSQLOpenBracket

Description

The Conditional SQLOpenBracket property specifies the type of bracket used to indicate the start of a conditional segment in raw SQL custom macros. Conditionalized segments enclosed within the brackets specified by the Conditional SQLOpenBracket and Conditional SQLCloseBracket properties are used only if temp tables exist, and are ignored if there are no temp tables.

Default value

{ (opening curly brace)

ConnectionCacheSize

Description

The ConnectionCacheSize property specifies the number of connections that Campaign maintains in a cache for each data source.

By default (N=0), Campaign establishes a new connection to a data source for each operation; if Campaign maintains a cache of connections and a connection is available for reuse, Campaign uses the cached connection rather than establishing a new connection.

If the setting is not θ , when a process is done with a connection, Campaign keeps up to the specified number of connections open for an amount of time specified by the InactiveConnectionTimeout property. After this time expires, the connections are removed from the cache and closed.

Default value

0 (zero)

DateFormat

Description

Campaign uses the value of the DateFormat property to determine how to parse data in date formats when using the Campaign macro language or when interpreting data from date columns.

Set the value of the DateFormat property to the format in which Campaign expects to receive dates from this data source. The value must match the format your database uses to display dates on select. For most databases, this setting is the same as the setting for the DateOutputFormatString property.

Note: If you use the multi-locale feature, you should not use date formats containing 3-letter months (MMM), %b (abbreviated month name), or %B (full month name). Instead, you should use a delimited or fixed format with a numeric value for the month.

To determine the date format your database uses, select a date from the database as described below.

Selecting a date by database

Table 21. Date formats

Database	To determine the correct setting
DB2	Connect to the database from a machine running the Campaign server. Use db2test, located in the Campaign\bin directory, to connect and issue the following command: values current date
- 4	
Informix	Informix has different formats for writing and selecting from the database. Connect to the database from a machine running the Campaign server. Use odbctest, located in the Campaign\bin directory, to connect and issue the following command:
	select today from informix.systables where tabid=1;
Netezza [®]	Connect to the database from a machine running the Campaign server. Use odbctest, located in the Campaign\bin directory, to connect and issue the following command:
	<pre>CREATE TABLE date_test (f1 DATE); INSERT INTO date_test values (current_date); SELECT f1 FROM date_test;</pre>
	Another way to select date format is to run following command: SELECT current_date FROM ANY_TABLE limit 1;
	where ANY_TABLE is the name of any existing table
Oracle	Log in to the database from the machine running the Campaign server. Use SQL *Plus to connect and issue the following command:
	SELECT sysdate FROM dual
	The current date is returned in NLS_DATE_FORMAT for that client.
SQL Server	Connect to the database from a machine running the Campaign listener. Use odbctest, located in the Campaign\bin directory, to connect and issue the following command:
	SELECT getdate()

Table 21. Date formats (continued)

Database	To determine the correct setting
Sybase	Connect to the database from a machine running the Campaign server. Use odbctest, located in the Campaign\bin directory, to connect and issue the following command: select today(*) from sys.dummy;

Additional considerations

Note the following database-specific instructions.

Teradata

Teradata allows you to define the date format on a per-column basis. In addition to dateFormat and dateOutputFormatString, you must set SuffixOnCreateDateField. To be consistent with our system table settings, use:

- SuffixOnCreateDateField = FORMAT 'YYYY-MM-DD'
- DateFormat = DELIM_Y_M_D
- DateOutputFormatString = %Y-%m-%d

SQL Server

If the Use regional settings when outputting currency, numbers, dates, and times option is not checked in the ODBC data source configuration, then you cannot reset the date format. In general, it is easier to leave this setting unchecked so that the date format configuration does not change for each language.

Default value

DELIM Y M D

Valid Values

Any of the formats specified in the DATE macro

DateOutputFormatString

Description

The DateOutputFormatString property specifies the format of the date datatype to be used when Campaign writes any date, such as a campaign start or end date, to a database. Set the value of the DateOutputFormatString property to the format that the data source expects for columns of the type date. For most databases, this setting is the same as the setting for the [data_source_name] > DateFormat property.

The DateOutputFormatString property can be set to any of the formats specified for format_strin the DATE_FORMAT macro. The DATE_FORMAT macro accepts two different kinds of formats. One is an identifier (for example, DELIM_M_D_Y, DDMMMYYYY, the same as accepted by the DATE macro), while the other is a format string. The value of the DateOutputFormatString property must be a format string - it must not be one of the DATE macro identifiers. Typically, use one of the delimited formats.

You can verify whether you selected the correct format by creating a table and inserting a date in the format you selected, as described in the following procedure.

To verify DateOutputFormatString

1. Connect to the database using the appropriate tool, as described in the table for "Selecting a date by database".

Do not use the query tools that come with the database (such as SQL Server's Query Analyzer) to verify that dates are being sent to the database correctly. These query tools might convert the date format to something other than what Campaign actually sent to the database.

2. Create a table and insert a date in the format you selected. For example, if you selected %m/%d/%Y:

```
CREATE TABLE date test (F1 DATE)
INSERT INTO date test VALUES ('03/31/2004')
```

If the database allows the INSERT command to complete successfully, then you have selected the correct format.

Default value

%Y/%m/%d

DateTimeFormat

Description

The value of the [data source name] > DateTimeFormat property specifies the format in which Campaign expects to receive datetime/timestamp data from a database. It must match the format your database uses to display datetime/timestamp data on select. For most databases, this setting is the same as the setting for DateTimeOutputFormatString.

Typically, you should set the DateTimeFormat by prepending your DateFormat value with DT after determining the DateFormat value as described in the table for "Selecting a date by database".

Note: If you use the multi-locale feature, you should not use date formats containing 3-letter months (MMM), %b (abbreviated month name), or %B (full month name). Instead, you should use a delimited or fixed format with a numeric value for the month.

Default value

DT_DELIM_Y_M_D

Valid Values

Only delimited formats are supported, as follows:

- DT DELIM M D
- DT DELIM M D Y
- DT_DELIM_Y_M
- DT DELIM Y M D
- DT DELIM M Y
- DT DELIM D M
- DT DELIM D M Y

DateTimeOutputFormatString

Description

The DateTimeOutputFormatString property specifies the format of the datetime datatype to be used when Campaign writes any datetime, such as a campaign start or end date and time, to a database. Set the value of the DateTimeOutputFormatString property to the format that the data source

expects for columns of the type datetime. For most databases, this setting is the same as the setting for the [data_source_name] > DateTimeFormat property.

See DateOutputFormatString for a method for verifying that the format you select is correct.

Default value

%Y/%m/%d %H:%M:%S

DB2NotLoggedInitially

Description

The DB2NotLoggedInitially property determines whether Campaign uses the not logged initially SQL syntax when populating temporary tables in DB2. When set to TRUE, this property disables logging for inserts in to temp tables, which improves performance and decreases database resource consumption.

If your version of DB2 does not support the not logged initially syntax, set this property to FALSE.

Default value

TRUE

Valid Values

TRUE | FALSE

DB2NotLoggedInitiallyUserTables

Description

The DB2NotLoggedInitiallyUserTables property determines whether Campaign uses the not logged initially SQL syntax for inserts into DB2 user tables. When set to TRUE, this property disables logging for inserts into the user tables, which improves performance and decreases database resource consumption.

Note: When set to TRUE, if a user table transaction fails for any reason, the table will become corrupted and must be dropped. All data previously contained in the table will be lost.

Note: The DB2NotLoggedInitiallyUserTables property is not used for the Campaign system tables.

Default value

FALSE

Valid Values

TRUE | FALSE

DefaultScale

Description

The DefaultScale property is used when Campaign creates a database field to store numeric values from a flat file, when using the Snapshot or Export process.

This property is not used for numeric values originating in a database table, unless the database field omits information about precision and scale. (Precision indicates the total number of digits allowed for the field. Scale indicates the number of digits allowed to the right of the decimal point. For example, 6.789 has a precision of 4 and a scale of 3. Values obtained from a database table include information about precision and scale, which Campaign uses when creating the field.)

Flat files do not indicate precision and scale. Use DefaultScale to specify how many places to the right of the decimal point to define for the field that is created. For example:

- DefaultScale=0 creates a field with no places to the right of the decimal point (only whole numbers can be stored).
- DefaultScale=5 creates a field with a maximum of 5 values to the right of the decimal point.

If the value set for DefaultScale exceeds the field's precision, DefaultScale=0 is used for those fields. For example, if the precision is 5, and DefaultScale=6, a value of zero is used.

Default value

0 (zero)

DeleteAsRecreate

Description

The DeleteAsRecreate property specifies whether, when an output process is configured to REPLACE TABLE and if TRUNCATE is not supported, Campaign drops and recreates the table or only deletes from the table.

When the value is TRUE, Campaign drops the table and recreates it.

When the value is FALSE, Campaign executes a DELETE FROM from the table.

Default value

FALSE

Valid Values

TRUE | FALSE

DeleteAsTruncate

Description

The DeleteAsTruncate property specifies whether, when an output process is configured to REPLACE TABLE, Campaign uses TRUNCATE TABLE or deletes from the table.

When the value is TRUE, Campaign runs a TRUNCATE TABLE from the table.

When the value is FALSE, Campaign runs a DELETE FROM from the table.

The default value depends on the database type.

Default value

- TRUE for Netezza, Oracle, Sybase and SQLServer.
- FALSE for other database types.

Valid Values

TRUE | FALSE

DisallowTempTableDirectCreate

Description

The DisallowTempTableDirectCreate property specifies the way Campaign adds data to a temp table.

When set to FALSE, Campaign performs direct create-and-populate SQL syntax using one command; for example, CREATE TABLE <table_name> AS ... (for Oracle and Netezza) and SELECT <field_name> INTO <table_name> ... (for SQL Server).

When set to TRUE, Campaign creates the temp table and then populates it directly from table to table using separate commands.

Default value

FALSE

Valid Values

TRUE | FALSE

DSN

Description

Set this property to the data source name (DSN) as assigned in your ODBC configuration for this Campaign data source. This value is undefined by default.

Using the Campaign data source configuration properties, you can specify multiple logical data sources that refer to the same physical data source. For example, you can create two sets of data source properties for the same data source, one with AllowTempTables = TRUE and the other with AllowTempTables = FALSE. Each of these data sources would have a different name in Campaign, but if they refer to the same physical data source and they will have the same DSN value.

Default value

No default value defined.

DSNUsingOSAuthentication

Description

The DSNUsingOSAuthentication property applies only when an Campaign data source is SQL Server. Set the value to TRUE when the DSN is configured to use Windows Authentication mode.

Default value

FALSE

Valid Values

TRUE | FALSE

EnableBaseDimSelfJoin

Description

The EnableBaseDimSelfJoin property specifies whether the Campaign database behavior will perform self-joins when the Base and Dimension

tables are mapped to the same physical table and the Dimension is not related to the Base table on the Base table's ID field(s).

By default, this property is set to FALSE, and when the Base and Dimension tables are the same database table and the relationship fields are the same (for example, AcctID to AcctID), Campaign assumes that you do not want to perform a join.

Default value

FALSE

EnableSelectDistinct

Description

The EnableSelectDistinct property specifies whether the internal lists of IDs for Campaign are de-duplicated by the Campaign server or by the database.

When the value is TRUE, the database performs de-duplication, and SQL queries generated against the database then have the form (when appropriate):

SELECT DISTINCT key FROM table

When the value is FALSE, the Campaign server performs de-duplication, and SQL queries generated against the database have the form: SELECT key FROM table

Leave the default value of FALSE if:

- Your database is constructed so that unique identifiers (primary keys of base tables) are already guaranteed to be de-duped.
- You want the Campaign application server to perform de-duplication to reduce resource consumption/burden on the database.

Regardless of what value you specify for this property, Campaign automatically ensures that keys are de-duplicated as required. This property merely controls where the de-duplication effort occurs (on the database or on the Campaign server).

Default value

TRUE

Valid Values

TRUE | FALSE

EnableSelectOrderBy

Description

The EnableSelectOrderBy property specifies whether the internal lists of IDs for Campaignare sorted by the Campaign server or by the database.

When the value is TRUE, the database performs the sorting, and SQL queries generated against the database have the form:

SELECT <key> FROM ORDER BY <key>

When the value is FALSE, the Campaign server performs the sorting, and SQL queries generated against the database have the form:

SELECT <key>FROM

Note: Only set this property to FALSE if the audience levels used are text strings on a non-English database. All other scenarios can use the default of TRUE.

Default value

TRUE

Valid Values

True | False

ExcludeFromTableDisplay

Description

The ExcludeFromTableDisplay parameter allows you to limit the database tables that are displayed during table mapping in Campaign. It does not reduce the number of table names retrieved from the database.

Table names matching the specified patterns are not displayed.

For example, if you set the value of this parameter to sys.*, tables with names that begin with sys. are not displayed. Note that the values for this parameter are case-sensitive.

Default value

UAC_*, which excludes temp tables and Extract tables, when the ExtractTablePrefix property's value is the default value

ExtractTablePostExecutionSQL

Description

Use the ExtractTablePostExecutionSQL property to specify one or more complete SQL statements that run immediately after the creation and population of an Extract table.

Tokens available to ExtractTablePostExecutionSQL are described below.

Table 22. Tokens available to ExtractTablePostExecutionSQL

Token	Description
<amuser></amuser>	This token is replaced with the IBM Unica Marketing user name associated with the flowchart for which the Extract table was created.
<campaigncode></campaigncode>	This token is replaced with the code for the campaign associated with the flowchart for which the Extract table was created.
<campaignname></campaignname>	This token is replaced with the name of the campaign associated with the flowchart for which the Extract table was created.
<dbuser></dbuser>	This token is replaced with the database user name for the database where the Extract table was created.
<flowchartname></flowchartname>	This token is replaced with the name of the flowchart associated with the Extract table creation.
<keycolumns></keycolumns>	This token is replaced with the Extract table column name(s).
<tablename></tablename>	This token is replaced with the Extract table name.

Table 22. Tokens available to ExtractTablePostExecutionSQL (continued)

Token	Description
	This token is replaced with the Campaign user name of the user running the flowchart.

Not defined

Valid Values

A valid SQL statement

ExtractTablePrefix

Description

The ExtractTablePrefix property specifies a string that is automatically prepended to all Extract table names in Campaign.

Default value

UAC EX

ForceNumeric

Description

The ForceNumeric property specifies whether Campaign retrieves numeric values as the data type double. When the value is set to TRUE, Campaign retrieves all numeric values as the data type double.

Default value

FALSE

Valid Values

TRUE | FALSE

InactiveConnectionTimeout

Description

The InactiveConnectionTimeout property specifies the number of seconds an inactive Campaign database connection is left open before it is closed. Setting the value to θ disables the timeout, leaving the connection open.

Default value

120

InsertLogSize

Description

The InsertLogSize property specifies when a new entry is entered in the log file while the Campaign Snapshot process is running. Every time the number of records written by the Snapshot process reaches a multiple of the number specified in the InsertLogSize property, a log entry is written. The log entries can help you determine how far a running Snapshot process has progressed. Setting this value too low may create large log files.

Default value

100000 (one hundred thousand records)

Valid Values

Positive integers

JndiName

Description

The JndiName property is used only when configuring the Campaign system tables (not for other data sources, such as customer tables). Set its value to the Java Naming and Directory Interface (JNDI) data source that is defined in the application server (WebSphere® or WebLogic).

Default value

campaignPartition1DS

LoaderCommand

Description

The LoaderCommand property specifies the command issued to invoke your database load utility in Campaign. If you set this parameter, Campaign enters the database loader utility mode for all output files from the Snapshot process that are used with the "replace all records" settings. This parameter also invokes the database loader utility mode when Campaign uploads ID lists into temp tables.

The valid value for this property is any full path name either to the database load utility executable or to a script that launches the database load utility. Using a script allows you to perform additional setup before invoking the load utility (for example, moving files to a database server first or invoking ISQL to use the load command in Sybase IQ).

Most database load utilities require several arguments to be launched successfully. These arguments can include specifying the data file and control file to load from and the database and table to load into. Campaign supports the following tokens, which are replaced by the specified elements when the command is run. Consult your database load utility documentation for the correct syntax to use when invoking your database load utility.

This parameter is undefined by default.

Tokens available to LoaderCommand are described below.

Table 23. Tokens available to LoaderCommand

Token	Description
<amuser></amuser>	This token is replaced with the IBM Unica Marketing user name associated with the flowchart being run.
<campaigncode></campaigncode>	This token is replaced with the code for the campaign associated with the flowchart.
<campaignname></campaignname>	This token is replaced with the name of the campaign associated with the flowchart being run.
<controlfile></controlfile>	This token is replaced with the full path and file name to the temporary control file that Campaign generates according to the template that is specified in the LoaderControlFileTemplate parameter.

Table 23. Tokens available to LoaderCommand (continued)

Token	Description
<database></database>	This token is replaced with the name of the data source that Campaign is loading data into. This is the same data source name used in the category name for this data source.
<datafile></datafile>	This token is replaced with the full path and file name to the temporary data file created by Campaign during the loading process. This file is in the Campaign Temp directory, UNICA_ACTMPDIR.
<dbuser></dbuser>	This token is replaced with the database user name for the database.
<dsn></dsn>	This token is replaced with the value of the DSN property. If the DSN property is not set, the <dsn> token is replaced by the data source name used in the category name for this data source (the same value used to replace the <database> token).</database></dsn>
<flowchartname></flowchartname>	This token is replaced with the name of the flowchart being run.
<numfields></numfields>	This token is replaced with the number of fields in the table.
<password></password>	This token is replaced with the database password from the current flowchart connection to the data source.
<table></table>	This token is obsolete, but is supported for compatibility with earlier versions. See <tablename>, which replaced <table> as of version 4.6.3.</table></tablename>
<tablename></tablename>	This token is replaced with the database table name that Campaign is loading data into. This is the target table from your Snapshot process or the name of the Temp Table being created by Campaign.
<user></user>	This token is replaced with the database user from the current flowchart connection to the data source.

No default value defined.

Valid Values

Any full path name either to the database load utility executable or to a script that launches the database load utility

LoaderCommandForAppend

Description

The LoaderCommandForAppend parameter specifies the command issued to invoke your database load utility for appending records to a database table in Campaign. If you set this parameter, Campaign enters database loader utility mode for all output files from the Snapshot process that are used with the "append records" settings.

This parameter is specified as a full path name either to the database load utility executable or to a script that launches the database load utility. Using a script allows you to perform additional setup before invoking the

load utility (for example, moving files to a database server first or invoking ISQL to use the load command in Sybase IQ).

Most database load utilities require several arguments to be successfully launched. These can include specifying the data file and control file to load from and the database and table to load into. The tokens are replaced by the specified elements when the command is run.

Consult your database load utility documentation for the correct syntax to use when invoking your database load utility.

This parameter is undefined by default.

Tokens available to LoaderCommandForAppend are described below.

Table 24. Tokens available to LoaderCommandForAppend

Token	Description
<amuser></amuser>	This token is replaced with the IBM Unica Marketing user name associated with the flowchart being run.
<campaigncode></campaigncode>	This token is replaced with the code for the campaign associated with the flowchart being run.
<campaignname></campaignname>	This token is replaced with the name of the campaign associated with the flowchart being run.
<controlfile></controlfile>	This token is replaced with the full path and file name to the temporary control file that Campaign generates according to the template that is specified in the LoaderControlFileTemplate parameter.
<database></database>	This token is replaced with the name of the data source that Campaign is loading data into. This is the same data source name used in the category name for this data source.
<datafile></datafile>	This token is replaced with the full path and file name to the temporary data file created by Campaign during the loading process. This file is in the Campaign Temp directory, UNICA_ACTMPDIR.
<dbuser></dbuser>	This token is replaced with the database user name for the database where the temp tables were created.
<dsn></dsn>	This token is replaced with the value of the DSN property. If the DSN property is not set, the <dsn> token is replaced by the data source name used in the category name for this data source (the same value used to replace the <database> token).</database></dsn>
<flowchartname></flowchartname>	This token is replaced with the name of the flowchart associated with the temp table creation.
<numfields></numfields>	This token is replaced with the number of fields in the table.
<password></password>	This token is replaced with the database password from the current flowchart connection to the data source.
<table></table>	This token is obsolete, but is supported for compatibility with earlier versions. See <tablename>, which replaced <table> as of version 4.6.3.</table></tablename>
<tablename></tablename>	This token is replaced with the database table name that Campaign is loading data into. This is the target table from your Snapshot process or the name of the Temp Table being created by Campaign.

Table 24. Tokens available to LoaderCommandForAppend (continued)

Token	Description
<user></user>	This token is replaced with the database user from the current flowchart connection to the data source.

No default value defined.

LoaderControlFileTemplate

Description

The LoaderControlFileTemplate property specifies the full path and file name to the control file template configured in Campaign. When this parameter is set, Campaign dynamically builds a temporary control file based on the template that you specify here. The path and name of this temporary control file is available to the <CONTROLFILE> token that is available to the LoaderCommand parameter.

Before you use Campaign in the database loader utility mode, you must configure the control file template that is specified by this parameter. The control file template supports the following tokens, which are dynamically replaced when the temporary control file is created by Campaign.

For the correct syntax required for your control file, see your database loader utility documentation.

This parameter is undefined by default.

Tokens available to LoaderControlFileTemplate are the same as those described for the LoaderCommand property, plus the following special tokens, which are repeated once for each field in the outbound table.

Table 25. Tokens available to LoaderControlFileTemplate

Token	Description
<pre><dbcolumnnumber></dbcolumnnumber></pre>	This token is replaced with the column ordinal in the database.
<fieldlength></fieldlength>	This token is replaced with the length of the field being loaded into the database.
<fieldname></fieldname>	This token is replaced with the name of the field being loaded into the database.
<fieldnumber></fieldnumber>	This token is replaced with the number of the field being loaded into the database.
<fieldtype></fieldtype>	This token is replaced with the literal "CHAR()". The length of this field is specified between the (). If your database happens to not understand the field type, CHAR, you can manually specify the appropriate text for the field type and use the <fieldlength> token. For example, for SQLSVR and SQL2000 you would use "SQLCHAR(<fieldlength>)"</fieldlength></fieldlength>
<nativetype></nativetype>	This token is replaced with the actual database type that this field is loaded into.
<xyz></xyz>	This token places the specified character(s) on all fields being loaded into the database, except the last. A typical use is <,> which repeats a comma for all fields except the last.

Table 25. Tokens available to LoaderControlFileTemplate (continued)

Token	Description
<~xyz>	This token places the specified characters only on the last repeated line.
xyz	This token places the specified character(s), including the angle brackets < >, on all lines.

No default value defined.

LoaderControlFileTemplateForAppend

Description

The LoaderControlFileTemplateForAppend property specifies the full path and file name to the control file template configured in Campaign. When this parameter is set, Campaign dynamically builds a temporary control file based on the template that is specified here. The path and name of this temporary control file is available to the <CONTROLFILE> token that is available to the LoaderCommandForAppend property.

Before you use Campaign in the database loader utility mode, you must configure the control file template that is specified by this parameter. The control file template supports the following tokens, which are dynamically replaced when the temporary control file is created by Campaign.

See your database loader utility documentation for the correct syntax required for your control file. Tokens available to your control file template are the same as those for the LoaderControlFileTemplate property.

This parameter is undefined by default.

Default value

No default value defined.

LoaderDelimiter

Description

The LoaderDelimiter property specifies whether the temporary data file is a fixed-width or delimited flat file, and, if it is delimited, the characters Campaign uses as delimiters.

If the value is undefined, Campaign creates the temporary data file as a fixed width flat file.

If you specify a value, it is used when the loader is invoked to populate a table that is known to be empty. Campaign creates the temporary data file as a delimited flat file, using the value of this property as the delimiter.

This property is undefined by default.

Default value

No default value defined.

Valid Values

Characters, which can be enclosed in double quotation marks, if wanted.

LoaderDelimiterAtEnd

Description

Some external load utilities require that the data file be delimited and that each line end with the delimiter (for example, Informix's dbaccess using External Tables). To accommodate this requirement, set the LoaderDelimiterAtEnd value to TRUE, so that when the loader is invoked to populate a table that is known to be empty, Campaign uses delimiters at the end of each line.

FALSE

Default value

FALSE

Valid Values

TRUE | FALSE

LoaderDelimiterAtEndForAppend

Description

Some external load utilities require that the data file be delimited and that each line end with the delimiter (for example, Informix's dbaccess using External Tables). To accommodate this requirement, set the LoaderDelimiterAtEndForAppend value to TRUE, so that when the loader is invoked to populate a table that is not known to be empty, Campaign uses delimiters at the end of each line.

Default value

FALSE

Valid Values

TRUE | FALSE

LoaderDelimiterForAppend

Description

The LoaderDelimiterForAppend property specifies whether the temporary Campaign data file is a fixed-width or delimited flat file, and, if it is delimited, the character or set of characters used as delimiters.

If the value is undefined, Campaign creates the temporary data file as a fixed width flat file.

If you specify a value, it is used when the loader is invoked to populate a table that is not known to be empty. Campaign creates the temporary data file as a delimited flat file, using the value of this property as the delimiter.

This property is undefined by default.

Default value

No default value defined.

Valid Values

Characters, which you may enclose in double quotation marks, if wanted.

LoaderUseLocaleDP

Description

The LoaderUseLocaleDP property specifies, when Campaign writes numeric values to files to be loaded by a database load utility, whether the locale-specific symbol is used for the decimal point.

Set this value to FALSE to specify that the period (.) is used as the decimal point.

Set this value to TRUE to specify that the decimal point symbol appropriate to the locale is used.

Default value

FALSE

Valid Values

TRUE | FALSE

MaxItemsInList

Description

Allows you to specify the maximum number of items that Campaign is allowed to include in a single list in SQL (for example, the list of values following an IN operator in a WHERE clause).

Default value

1000 (Oracle only), 0 (unlimited) for all other databases

Valid Values

integers

MaxQueryThreads

Description

The MaxQueryThreads property specifies the upper limit on the number of simultaneous queries allowed to run against each database source from a single Campaign flowchart.

Campaign runs database queries using independent threads. Because Campaign processes run in parallel, it is common to have multiple queries running simultaneously against a single data source. If the number of queries to be run in parallel exceeds the value specified by this property, the Campaign server automatically limits the number of simultaneous queries to this value.

The maximum value is unlimited. Note that when the maxReuseThreads property is set to a non-zero value, it should be greater than or equal to the value of MaxQueryThreads.

Default value

Varies depending on the database

MaxRowFetchRecords

Description

When the selected number of IDs is less than the value specified by the MaxRowFetchRecords property, Campaign passes the IDs to the database,

one at a time in a separate SQL query. This process may be very time-consuming. If the number of selected IDs is greater than the value specified by this parameter, Campaign uses temporary tables (if allowed against the database source), or it pulls down all the values from the table, not including any unnecessary values.

For performance reasons, it is best to keep this number low.

Default value

100

MaxTempTableJoinPctSelectAll

Description

When a query is issued, Campaign creates a temporary table on the database containing the exact list of IDs, as a result of the query. When an additional query that selects all records is issued against the database, the MaxTempTableJoinPctSelectAll property specifies whether a join is performed with the temporary table.

If the relative size of the temporary table (specified as a percentage) is greater than the value of the MaxTempTableJoinPctWithCondition property, no join is performed. All records are selected first, then unwanted records are discarded.

If the relative size of the temporary table (specified as a percentage) is less than or equal to the value of MaxTempTableJoinPctWithCondition property, the join is performed with the temporary table first, and then the resulting IDs are retrieved to the server.

This property is applicable only if the value of the AllowTempTables property is set to TRUE. This property is ignored if the useInDbOptimization property is set to YES.

Default value

90

Valid Values

Integers between 0-100. A value of 0 means that temporary table joins are never used; a value of 100 means that table joins are always used, regardless of the size of the temporary table.

Example

Assume that MaxTempTableJoinPctSelectAll is set to 90. First, you might want to select customers (CustID) with account balances (Accnt_balance) greater than \$1,000 from the database table (Customer).

The corresponding SQL expression generated by the Select process may look like this:

```
SELECT CustID FROM Customer WHERE Accnt_balance > 1000
```

The Select process may retrieve 100,000 IDs from the total table size of 1,000,000, which is 10%. If temporary tables are allowed, Campaign writes the selected IDs (TempID) into a temporary table (Temp_table) in the database.

Then, you might want to snapshot the selected IDs (CustID) together with the actual balance (Accnt_balance). Since the relative size of the temporary

table (Temp_table) is less than 90 percent (MaxTempTableJoinPctSelectAll), the join is done with the temporary table first. The SQL expression generated by the Snapshot process may look like this:

SELECT CustID, Accnt balance FROM Customer, Temp table WHERE CustID = TempID

If the Select process retrieves more than 90 percent the subsequent Snapshot process retrieves all the records, and matches them with the first set of IDs, discarding the unnecessary ones.

The SQL expression generated by the Snapshot process may look like this: SELECT CustID, Accnt_balance FROM Customer

MaxTempTableJoinPctWithCondition

Description

When a query is issued, Campaign creates a temporary table on the database containing the exact list of IDs, as a result of the query. When an additional query, selecting records with limitation conditions is issued against the database, the MaxTempTableJoinPctWithCondition property specifies whether a join should be performed with the temporary table.

If the relative size of the temporary table (specified as a percentage) is greater than the value of MaxTempTableJoinPctWithCondition, no join is performed. This avoids the overhead in the database where it may not be needed. In this case, the query is issued against the database, the resulting list of IDs retrieved, and then unwanted records are discarded as they are matched to the list in server memory.

If the relative size of the temporary table (in percentage) is less than or equal to the value of MaxTempTableJoinPctWithCondition, the join is done with the temporary table first, and then the resulting IDs are retrieved to the server.

This property is applicable only if the value of the AllowTempTables property is set to TRUE.

Default value

20

Valid Values

Integers between 0-100. A value of 0 means that temporary table joins are never used; a value of 100 means that table joins are always used, regardless of the size of the temporary table.

MinRegForLoaderCommand

Description

Use this property to set the threshold for using the bulk loader. Campaign invokes the script assigned to the LoaderCommand parameter when the number of unique IDs in the input cell exceeds the value defined here. The value of this property does not represent the number of records that will be written.

If this property is not configured, Campaign assumes that the value is the default value (zero). If this property is configured but a negative value or non-integer value is set as the value, Campaign assumes that the value is zero.

Default value

0 (zero)

Valid Values

Integers

MinRegForLoaderCommandForAppend

Description

Use this property to set the threshold for using the bulk loader. Campaign invokes the script assigned to the LoaderCommandForAppend parameter when the number of unique IDs in the input cell exceeds the value defined here. The value of this property does not represent the number of records that will be written.

If this property is not configured, Campaign assumes that the value is the default value (zero). If this property is configured but a negative value or non-integer value is set as the value, Campaign assumes that the value is zero.

Default value

0 (zero)

Valid Values

Positive integers

NumberOfRetries

Description

The NumberOfRetries property specifies the number of times Campaign automatically retries a database operation on failure. Campaign automatically resubmits queries to the database this number of times before reporting a database error or failure.

Default value

0 (zero)

ODBCTableTypes

Description

The ODBCTableTypes property is required to support Sybase IQ/ASE data sources only. Campaign requires this property to be set in order to display the list of tables in the table mapping window. Add the following values to this property to enable mapping for Sybase IQ/ASE data sources:

```
'TABLE', 'VIEW', 'SYNONYM', 'ALIAS'
```

This property is empty by default, which is appropriate for data sources other than Sybase IQ/ASE.

Default value

Not defined

Valid Values

'TABLE','VIEW','SYNONYM','ALIAS'

ODBCUnicode

Description

The ODBCUnicode property specifies the type of encoding used in Campaign ODBC calls. It is used only with ODBC data sources and is ignored when used with Oracle or DB2 native connectivity.

Important: If this property is set to UTF-8 or UCS-2, the data source's StringEncoding value must be set to either UTF-8 or WIDEUTF-8, otherwise the ODBCUnicode property's setting is ignored.

Default value

disabled

Valid Values

Possible values for this property are:

- Disabled Campaign uses ANSI ODBC calls.
- UTF-8 Campaign uses Unicode ODBC calls and assumes that a SQLWCHAR is a single byte. This is compatible with DataDirect ODBC drivers.
- UCS-2 Campaign uses Unicode ODBC calls and assumes that a SQLWCHAR is 2 bytes. This is compatible with Windows and unixODBC ODBC drivers.

ODBCv2

Description

Use the ODBCv2 property to specify which ODBC API specification Campaign should use for the data source.

The default value of FALSE allows Campaign to use the v3 API specification, while a setting of TRUE causes Campaign to use the v2 API specification. Set the 0DBCv2 property to TRUE for data sources that do not support the ODBC v3 API specification.

When the ODBCv2 property is set to TRUE, Campaign does not support the ODBC Unicode API, and values other than disabled for the ODBCUnicode property are not recognized.

Default value

FALSE

Valid Values

TRUE | FALSE

OwnerForTableDisplay

Description

The OwnerForTableDisplay property allows you to limit the table mapping display in Campaign to tables owned by a specified user, or to one or more sets of tables owned by the specified user(s).

To specify a table name pattern in addition to the user name, append the pattern to the user ID. For example, the following setting limits the table display to tables beginning with ABC for user1 and XYZ for user2:

OwnerForTableDisplay=user1.ABC%,user2.XYZ%

Default value

No default value defined.

PadTextWithSpaces

Description

When set to TRUE, the PadTextWithSpaces property causes Campaign to pad text values with spaces until the string is the same width as the database field.

Default value

FALSE

Valid Values

TRUE | FALSE

PostExtractTableCreateRunScript

Description

Use the PostExtractTableCreateRunScript property to specify a script or executable for Campaign to run after an Extract table has been created and populated.

Tokens available to PostExtractTableCreateRunScript are described below.

Table 26. Tokens available to PostExtractTableCreateRunScript

Token	Description
<dbuser></dbuser>	This token is replaced with the database user name for the database where the Extract table was created.
<amuser></amuser>	This token is replaced with the IBM Unica Marketing user name associated with the flowchart for which the Extract table was created.
<campaignname></campaignname>	This token is replaced with the name of the campaign associated with the flowchart for which the Extract table was created.
<campaigncode></campaigncode>	This token is replaced with the code for the campaign associated with the flowchart for which the Extract table was created.
<flowchartname></flowchartname>	This token is replaced with the name of the flowchart associated with the Extract table creation.
<password></password>	This token is replaced with the database password from the current flowchart connection to the data source.
<keycolumns></keycolumns>	This token is replaced with the Extract table column name(s).

Default value

Not defined

Valid Values

File name of a shell script or executable

PostSegmentTableCreateRunScript

Description

Specifies a script or executable that Campaign runs after a Segment temp table has been created and populated.

Tokens available to PostSegmentTableCreateRunScript are described below.

Table 27. Tokens available to PostSegmentTableCreateRunScript

Token	Description
<dbuser></dbuser>	This token is replaced with the database user name for the database where the Segment temp table was created.
<amuser></amuser>	This token is replaced with the IBM Unica Marketing user name associated with the flowchart for which the Segment temp table was created.
<campaignname></campaignname>	This token is replaced with the name of the campaign associated with the flowchart for which the Segment temp table was created.
<campaigncode></campaigncode>	This token is replaced with the code for the campaign associated with the flowchart for which the Segment temp table was created.
<flowchartname></flowchartname>	This token is replaced with the name of the flowchart associated with the Segment temp table creation.
<password></password>	This token is replaced with the database password from the current flowchart connection to the data source.
<keycolumns></keycolumns>	This token is replaced with the Segment temp table column name(s).

Default value

Not defined

Valid Values

File name of a script or executable

PostSnapshotTableCreateRunScript

Description

Use the PostSnapshotTableCreateRunScript property to specify a script or executable that Campaign runs after a Snapshot table has been created and populated.

Tokens available to PostSnapshotTableCreateRunScript are described below.

Table 28. Tokens available to PostSnapshotTableCreateRunScript

Token	Description
<dbuser></dbuser>	This token is replaced with the database user name for the database where the Snapshot table was created.
<amuser></amuser>	This token is replaced with the IBM Unica Marketing user name associated with the flowchart for which the Snapshot table was created.
<campaignname></campaignname>	This token is replaced with the name of the campaign associated with the flowchart for which the Snapshot table was created.

Table 28. Tokens available to PostSnapshotTableCreateRunScript (continued)

Token	Description
<campaigncode></campaigncode>	This token is replaced with the code for the campaign associated with the flowchart for which the Snapshot table was created.
<flowchartname></flowchartname>	This token is replaced with the name of the flowchart associated with the Snapshot table creation.
<password></password>	This token is replaced with the database password from the current flowchart connection to the data source.
<keycolumns></keycolumns>	This token is replaced with the Snapshot table column name(s).

Not defined

Valid Values

File name of a shell script or executable

PostTempTableCreateRunScript

Description

Use the PostTempTableCreateRunScript property to specify a script or executable for Campaign to run after a temp table has been created and populated in a user data source or in the system tables database.

Tokens available to PostTempTableCreateRunScript are described below.

Table 29. Tokens available to PostTempTableCreateRunScript

Token	Description
<dbuser></dbuser>	This token is replaced with the database user name for the database where the temp tables were created.
<amuser></amuser>	This token is replaced with the IBM Unica Marketing user name associated with the flowchart for which temp tables were created.
<campaignname></campaignname>	This token is replaced with the name of the campaign associated with the flowchart for which temp tables were created.
<campaigncode></campaigncode>	This token is replaced with the code for the campaign associated with the flowchart for which temp tables were created.
<flowchartname></flowchartname>	This token is replaced with the name of the flowchart associated with the temp table creation.
<password></password>	This token is replaced with the database password from the current flowchart connection to the data source.
<keycolumns></keycolumns>	This token is replaced with the temp table column name(s).

Default value

No default value defined.

PostUserTableCreateRunScript

Description

Specifies a script or executable that Campaign runs after a User table has been created and populated.

Tokens available to PostUserTableCreateRunScript are described below.

Table 30. Tokens available to PostUserTableCreateRunScript

Token	Description
<dbuser></dbuser>	This token is replaced with the database user name for the database where the User table was created.
<amuser></amuser>	This token is replaced with the IBM Unica Marketing user name associated with the flowchart for which the User table was created.
<campaignname></campaignname>	This token is replaced with the name of the campaign associated with the flowchart for which the User table was created.
<campaigncode></campaigncode>	This token is replaced with the code for the campaign associated with the flowchart for which the User table was created.
<flowchartname></flowchartname>	This token is replaced with the name of the flowchart associated with the User table creation.
<password></password>	This token is replaced with the database password from the current flowchart connection to the data source.
<keycolumns></keycolumns>	This token is replaced with the User table column name(s).

Default value

Not defined

Valid Values

File name of a script or executable

PrefixOnSelectSQL

Description

Use the PrefixOnSelectSQL property to specify a string that is automatically prepended to all SELECT SQL expressions generated by Campaign.

This property applies only to SQL generated by Campaign, and does not apply to SQL in "raw SQL" expressions used in the Select process.

This property is automatically added to the SELECT SQL expression without checking its syntax. If you use this property, make sure that it is a legal expression.

This property is undefined by default.

Tokens available to PrefixOnSelectSQL are described below.

Table 31. Tokens available to PrefixOnSelectSQL

Token	Description
<amuser></amuser>	This token is replaced with the IBM Unica Marketing user name associated with the flowchart for which temp tables were created.
<campaigncode></campaigncode>	This token is replaced with the code for the campaign associated with the flowchart for which temp tables were created.
<campaignname></campaignname>	This token is replaced with the name of the campaign associated with the flowchart for which temp tables were created.
<dbuser></dbuser>	This token is replaced with the database user name for the database where the temp tables were created.
<flowchartname></flowchartname>	This token is replaced with the name of the flowchart associated with the temp table creation.
<user></user>	This token is replaced with the Campaign user name of the user running the flowchart.

No default value defined.

QueryThreadSleep

Description

The QueryThreadSleep property affects the CPU utilization of the Campaign server process (UNICA_ACSVR). When the value is TRUE, the thread that the Campaign server process uses to check for query completion sleeps between checks. When the value is FALSE, the Campaign server process checks continuously for query completion.

Default value

TRUE

ReaderLogSize

Description

The ReaderLogSize parameter defines when Campaign makes a new entry in the log file when reading data from the database. Every time the number of records read from the database reaches a multiple of the number defined by this parameter, a log entry is written in the log file.

This parameter can help you determine how far a process has progressed in its run. Setting this value too low may create large log files.

Default value

1000000 (one million records)

Valid Values

Integers

SegmentTempTablePrefix

Description

Sets the prefix for Segment tables created by the CreateSeg process in this data source.

Default value

UACS

ShareConnection

Description

The ShareConnection property is no longer used and should remain set to its default value, FALSE.

Default value

FALSE

Valid Values

FALSE

SQLOnConnect

Description

The SQLOnConnect property defines a complete SQL statement that Campaign runs immediately after each database connection.

The SQL statement generated by this property is automatically passed to your database without checking its syntax. If you use this property, make sure that it is a legal expression. The string may be enclosed in quotation marks, but this is not required.

This property is undefined by default.

Tokens available to SQLOnConnect are described below.

Table 32. Tokens available to SQLOnConnect

Token	Description
<amuser></amuser>	This token is replaced with the IBM Unica Marketing user name associated with the flowchart for which temp tables were created.
<campaigncode></campaigncode>	This token is replaced with the code for the campaign associated with the flowchart for which temp tables were created.
<campaignname></campaignname>	This token is replaced with the name of the campaign associated with the flowchart for which temp tables were created.
<dbuser></dbuser>	This token is replaced with the database user name for the database where the temp tables were created.
<flowchartname></flowchartname>	This token is replaced with the name of the flowchart associated with the temp table creation.
<user></user>	This token is replaced with the Campaign user name of the user running the flowchart.

Default value

No default value defined.

StringEncoding

Description

The StringEncoding property specifies the character encoding of the database. When Campaign retrieves data from the database, the data is transcoded from the encoding specified to the internal encoding of Campaign (UTF-8). Likewise, when Campaign sends a query to the database, character data is transcoded from the internal encoding of Campaign to the encoding specified in the StringEncoding property.

The value of this property must match the encoding used on the database client.

Do not leave this value blank although it is undefined by default. If you use ASCII data, set this value to UTF-8.

Note: If your database client's encoding is set for UTF-8, the preferred setting for this value is WIDEUTF-8. The WIDE-UTF-8 setting works only if your database client is set to UTF-8.

Important: If you use the partitions > partition[n] > dataSources >
[data_source_name] > ODBCUnicode property, this property is set to either
UTF-8 or WIDEUTF-8, otherwise the ODBCUnicode property's setting is
ignored.

See Appendix C, Internationalization and Encodings for a list of supported encodings.

See the following sections for important exceptions and additional considerations.

Default value

No default value defined.

Database-specific considerations

For DB2 or SQL Server, you should use a code page rather than an iconv encoding. For Teradata, you should override some default behavior. This section describes how to set the correct value for the StringEncoding property with these databases.

DB₂

To determine the correct value for the StringEncoding property with a DB2 database, look up the code page that corresponds to the regional settings of the Campaign server's operating system.

To set the value of the StringEncoding property for a DB2 database, add this command to the Campaign server startup script:

db2set DB2CODEPAGE=CPIBM code page

For example, to use UTF-8: db2set DB2CODEPAGE=1208

This affects all DB2 data sources and may affect other running programs.

SQL Server

To determine the correct the value for the StringEncoding property with a SQL Server database, look up the code page that corresponds to the regional settings of the server's operating system.

For example, to use code page 932 (Japanese Shift-JIS): StringEncoding=CP932

Teradata

Teradata supports per-column character encoding, while Campaign supports only per-data source encoding. UTF-8 cannot be used with Campaign due to a bug in the Teradata ODBC driver. Teradata sets a default character encoding for each login. You can override this using a parameter in the ODBC data source configuration on Windows or in the odbc.ini on UNIX platforms as follows:

CharacterSet=UTF8

The default encoding for a Teradata table is LATIN. Teradata has very few built-in encodings, but it supports user-defined encodings.

The default value of the StringEncoding property is ASCII.

Important: For many situations involving a UTF-8 database, you should use WIDEUTF-8 pseudo-encoding, described in the WIDEUTF-8 section.

WIDEUTF-8

Campaign is normally responsible for transcoding between its internal encoding, UTF-8, and the encoding of the database. When the database is encoded in UTF-8, the value UTF-8 can be specified for StringEncoding (except for SQLServer), and no transcoding will be needed. Traditionally, these have been the only viable models for Campaign to access non-English data within a database.

In the 7.0 version of Campaign, a new database encoding called WIDEUTF-8 was introduced as a valid value for the StringEncoding property. By using this encoding, Campaign still uses UTF-8 to communicate with the database client, but allows the client to perform the task of transcoding between UTF-8 and the encoding of the actual database. This enhanced version of UTF-8 is needed to alter the widths of table column mappings so that they will be wide enough for transcoded text.

Note: The WIDEUTF-8 pseudo-encoding may be used only in the database configuration. It should not be used for any other purpose.

Note: Oracle does not support transcoding through the client.

SuffixOnAllOtherSQL

Description

The SuffixOnAllOtherSQL property specifies a string that is automatically appended to every SQL expression, generated by Campaign, which are not covered by the SuffixOnInsertSQL, SuffixOnSelectSQL, SuffixOnTempTableCreation, SuffixOnUserTableCreation, or SuffixOnUserBaseTableCreation properties.

This property applies only to SQL generated by Campaign, and does not apply to SQL in "raw SQL" expressions used in the Select process.

SuffixOnAllOtherSQL is used for the following expression types, when generated by Campaign:

```
TRUNCATE TABLE table
 DROP TABLE table
 DELETE FROM table [WHERE ...]
UPDATE table SET ...
```

This property is automatically added to the SQL expression without checking its syntax. If you use this parameter, make sure that it is a legal expression. The string may be enclosed in quotation marks, but this is not required.

This property is undefined by default.

Tokens available to SuffixOnAllOtherSQL are described below.

Table 33. Tokens available to SuffixOnAllOtherSQL

Token	Description
<amuser></amuser>	This token is replaced with the IBM Unica Marketing user name associated with the flowchart for which temp tables were created.
<campaigncode></campaigncode>	This token is replaced with the code for the campaign associated with the flowchart for which temp tables were created.
<campaignname></campaignname>	This token is replaced with the name of the campaign associated with the flowchart for which temp tables were created.
<dbuser></dbuser>	This token is replaced with the database user name for the database where the temp tables were created.
<flowchartname></flowchartname>	This token is replaced with the name of the flowchart associated with the temp table creation.
<user></user>	This token is replaced with the Campaign user name of the user running the flowchart.

Default value

No default value defined.

SuffixOnCreateDateField

Description

The SuffixOnCreateDateField property specifies a string that Campaign automatically appends to any DATE fields in the CREATE TABLE SQL statement.

For example, you might set this property as follows: SuffixOnCreateDateField = FORMAT 'YYYY-MM-DD'

If this property is undefined (the default), the CREATE TABLE command is unchanged.

Note: See the table in the description of the DateFormat property.

Default value

No default value defined.

SuffixOnInsertSQL

Description

The SuffixOnInsertSQL property specifies a string that is automatically appended to all INSERT SQL expressions generated by Campaign. This property applies only to SQL generated by Campaign, and does not apply to SQL in "raw SQL" expressions used in the Select process.

SuffixOnInsertSQL is used for the following expression type, when generated by Campaign:

INSERT INTO table ...

This property is automatically added to the SQL expression without checking its syntax. If you use this property, make sure that it is a legal expression. The string may be enclosed in quotation marks, but this is not required.

This property is undefined by default.

Tokens available to SuffixOnInsertSQL are described below.

Table 34. Tokens available to SuffixOnInsertSQL

Token	Description
<amuser></amuser>	This token is replaced with the IBM Unica Marketing user name associated with the flowchart for which temp tables were created.
<campaigncode></campaigncode>	This token is replaced with the code for the campaign associated with the flowchart for which temp tables were created.
<campaignname></campaignname>	This token is replaced with the name of the campaign associated with the flowchart for which temp tables were created.
<dbuser></dbuser>	This token is replaced with the database user name for the database where the temp tables were created.
<flowchartname></flowchartname>	This token is replaced with the name of the flowchart associated with the temp table creation.
<user></user>	This token is replaced with the Campaign user name of the user running the flowchart.

Default value

No default value defined.

SuffixOnSelectSQL

Description

The SuffixOnSelectSQL property specifies a string that is automatically appended to all SELECT SQL expressions generated by Campaign. This property applies only to SQL generated by Campaign, and does not apply to SQL in "raw SQL" expressions used in the Select process.

This property is automatically added to the SQL expression without checking its syntax. If you use this property, make sure that it is a legal expression. The string may be enclosed in quotation marks, but this is not required.

This property is undefined by default.

Tokens available to SuffixOnSelectSQL are described below.

Table 35. Tokens available to SuffixOnSelectSQL

Token	Description
<amuser></amuser>	This token is replaced with the IBM Unica Marketing user name associated with the flowchart for which temp tables were created.
<campaigncode></campaigncode>	This token is replaced with the code for the campaign associated with the flowchart for which temp tables were created.
<campaignname></campaignname>	This token is replaced with the name of the campaign associated with the flowchart for which temp tables were created.
<dbuser></dbuser>	This token is replaced with the database user name for the database where the temp tables were created.
<flowchartname></flowchartname>	This token is replaced with the name of the flowchart associated with the temp table creation.
<user></user>	This token is replaced with the Campaign user name of the user running the flowchart.

No default value defined.

SuffixOnTempTableCreation

Description

Use the SuffixOnTempTableCreation property to specify a string that is automatically appended to the SQL expression generated by Campaign when a temp table is created. This property applies only to SQL generated by Campaign, and does not apply to SQL in "raw SQL" expressions used in the Select process. To use this property, the AllowTempTables property must be set to TRUE.

You may want to use tokens to substitute the table name and the column name(s) (<TABLENAME> and <KEYCOLUMNS>) in this SQL statement, since these are generated dynamically during the execution of the campaign.

This property is automatically added to the SQL expression without checking its syntax. If you use this property, make sure that it is a legal expression. The string may be enclosed in quotation marks, but this is not required.

This property is undefined by default.

Note: For Oracle databases, the configuration parameter is appended to the temp table creation SQL expression after the table name.

Tokens available to SuffixOnTempTableCreation are described below.

Table 36. Tokens available to SuffixOnTempTableCreation

Token	Description
<amuser></amuser>	This token is replaced with the IBM Unica Marketing user name associated with the flowchart for which temp tables were created.
<campaigncode></campaigncode>	This token is replaced with the code for the campaign associated with the flowchart for which temp tables were created.

Table 36. Tokens available to SuffixOnTempTableCreation (continued)

Token	Description
<campaignname></campaignname>	This token is replaced with the name of the campaign associated with the flowchart for which temp tables were created.
<dbuser></dbuser>	This token is replaced with the database user name for the database where the temp tables were created.
<flowchartname></flowchartname>	This token is replaced with the name of the flowchart associated with the temp table creation.
<keycolumns></keycolumns>	This token is replaced with the temp table column name(s).
<tablename></tablename>	This token is replaced with the temp table name.
<user></user>	This token is replaced with the Campaign user name of the user running the flowchart.

No default value defined.

SuffixOnSegmentTableCreation

Description

Specifies a string that is automatically appended to the SQL expression generated by Campaign when a Segment temp table is created.

Tokens available to SuffixOnSegmentTableCreation are described below.

Table 37. Tokens available to SuffixOnSegmentTableCreation

Token	Description
<amuser></amuser>	This token is replaced with the IBM Unica Marketing user name associated with the flowchart for which the Segment temp table was created.
<campaigncode></campaigncode>	This token is replaced with the code for the campaign associated with the flowchart for which the Segment temp table was created.
<campaignname></campaignname>	This token is replaced with the name of the campaign associated with the flowchart for which the Segment temp table was created.
<dbuser></dbuser>	This token is replaced with the database user name for the database where the Segment temp table was created.
<flowchartname></flowchartname>	This token is replaced with the name of the flowchart associated with the Segment temp table creation.
<keycolumns></keycolumns>	This token is replaced with the Segment temp table column name(s).
<tablename></tablename>	This token is replaced with the Segment temp table name.
<user></user>	This token is replaced with the Campaign user name of the user running the flowchart.

Default value

Not defined

Valid Values

Valid SQL

SuffixOnSnapshotTableCreation

Description

Use the SuffixOnSnapshotTableCreation property to specify a string that is automatically appended to the SQL expression generated by Campaign when a Snapshot table is created.

Tokens available to SuffixOnSnapshotTableCreation are described below.

Table 38. Tokens available to SuffixOnSnapshotTableCreation

Token	Description
<amuser></amuser>	This token is replaced with the IBM Unica Marketing user name associated with the flowchart for which the Snapshot table was created.
<campaigncode></campaigncode>	This token is replaced with the code for the campaign associated with the flowchart for which the Snapshot table was created.
<campaignname></campaignname>	This token is replaced with the name of the campaign associated with the flowchart for which the Snapshot table was created.
<dbuser></dbuser>	This token is replaced with the database user name for the database where the Snapshot table was created.
<flowchartname></flowchartname>	This token is replaced with the name of the flowchart associated with the Snapshot table creation.
<keycolumns></keycolumns>	This token is replaced with the Snapshot table column name(s).
<tablename></tablename>	This token is replaced with the Snapshot table name.
<user></user>	This token is replaced with the Campaign user name of the user running the flowchart.

Default value

Not defined

Valid Values

Valid SQL

SuffixOnExtractTableCreation

Description

Use the SuffixOnExtractTableCreation property to specify a string that is automatically appended to the SQL expression generated by Campaign when an Extract table is created.

Tokens available to SuffixOnExtractTableCreation are described below.

Table 39. Tokens available to SuffixOnExtractTableCreation

Token	Description
<amuser></amuser>	This token is replaced with the IBM Unica Marketing user name associated with the flowchart for which the Extract table was created.

Table 39. Tokens available to SuffixOnExtractTableCreation (continued)

Token	Description
<campaigncode></campaigncode>	This token is replaced with the code for the campaign associated with the flowchart for which the Extract table was created.
<campaignname></campaignname>	This token is replaced with the name of the campaign associated with the flowchart for which the Extract table was created.
<dbuser></dbuser>	This token is replaced with the database user name for the database where the Extract table was created.
<flowchartname></flowchartname>	This token is replaced with the name of the flowchart associated with the Extract table creation.
<keycolumns></keycolumns>	This token is replaced with the Extract table column name(s).
<tablename></tablename>	This token is replaced with the Extract table name.
<user></user>	This token is replaced with the Campaign user name of the user running the flowchart.

Not defined

Valid Values

Valid SQL

SuffixOnUserBaseTableCreation

Description

Use the SuffixOnUserBaseTableCreation property to specify a string that is automatically appended to the SQL expression that Campaign generates when a user creates a Base table (for example, in an Extract process). This property applies only to SQL generated by Campaign, and does not apply to SQL in "raw SQL" expressions used in the Select process.

You may want to use tokens to substitute the table name and the column name(s) (<TABLENAME> and <KEYCOLUMNS>) in this SQL statement, since these are generated dynamically during the execution of the campaign.

This property is automatically added to the SQL expression without checking its syntax. If you use this property, make sure that it is a legal expression. The string may be enclosed in quotation marks, but this is not required.

This property is undefined by default.

Tokens available to SuffixOnUserBaseTableCreation are described below.

Table 40. Tokens available to SuffixOnUserBaseTableCreation

Token	Description
<amuser></amuser>	This token is replaced with the IBM Unica Marketing user name associated with the flowchart for which temp tables were created.
<campaigncode></campaigncode>	This token is replaced with the code for the campaign associated with the flowchart for which temp tables were created.

Table 40. Tokens available to SuffixOnUserBaseTableCreation (continued)

Token	Description
<campaignname></campaignname>	This token is replaced with the name of the campaign associated with the flowchart for which temp tables were created.
<dbuser></dbuser>	This token is replaced with the database user name for the database where the temp tables were created.
<flowchartname></flowchartname>	This token is replaced with the name of the flowchart associated with the temp table creation.
<keycolumns></keycolumns>	This token is replaced with the temp table column name(s).
<tablename></tablename>	This token is replaced with the temp table name.
<user></user>	This token is replaced with the Campaign user name of the user running the flowchart.

No default value defined.

SuffixOnUserTableCreation

Description

Use the SuffixOnUserTableCreation property to specify a string that is automatically appended to the SQL expression that Campaign generates when a user creates a General table (for example, in a Snapshot process). This property applies only to SQL generated by Campaign, and does not apply to SQL in "raw SQL" expressions used in the Select process.

This property is automatically added to the SQL expression without checking its syntax. If you use this property, make sure that it is a legal expression. The string may be enclosed in quotation marks, but this is not required.

This property is undefined by default.

Tokens available to SuffixOnUserTableCreation are described below.

Table 41. Tokens available to SuffixOnUserTableCreation

Token	Description
<amuser></amuser>	This token is replaced with the IBM Unica Marketing user name associated with the flowchart for which temp tables were created.
<campaigncode></campaigncode>	This token is replaced with the code for the campaign associated with the flowchart for which temp tables were created.
<campaignname></campaignname>	This token is replaced with the name of the campaign associated with the flowchart for which temp tables were created.
<dbuser></dbuser>	This token is replaced with the database user name for the database where the temp tables were created.
<flowchartname></flowchartname>	This token is replaced with the name of the flowchart associated with the temp table creation.
<tablename></tablename>	This token is replaced with the temp table name.

No default value defined.

SystemTableSchema

Description

Specifies the schema used for Campaign system tables.

The default value is blank. This parameter is only relevant for the UA_SYSTEM_TABLES data source.

Leave this value blank unless the UA_SYSTEM_TABLES data source contains multiple schemas (for example, an Oracle database used by multiple groups). (In this context, "schema" indicates the initial portion of a "qualified" table name of the form X.Y (for example, dbo.UA_Folder). In this form, X is the schema and Y is the unqualified table name. This terminology for this syntax differs among the different database systems supported by Campaign.)

If multiple schemas exist in the system tables database, then set this value to the name of the schema in which the Campaign system tables were created.

Default value

No default value defined.

TempTablePostExecutionSQL

Description

Use the TempTablePostExecutionSQL property to specify a complete SQL statement that Campaign runs immediately after the creation of a temporary table in a user data source or in the system tables database. The AllowTempTables property must be set to TRUE to enable the creation of temp tables in a data source.

You may want to use tokens to substitute the table name and the column name(s) (<TABLENAME> and <KEYCOLUMNS>) in this SQL statement, since these are generated dynamically during the execution of the campaign.

This property is automatically added to the SQL expression without checking its syntax. If you use this property, make sure that it is a legal expression. The string may be enclosed in quotation marks, but this is not required.

The TempTablePostExecutionSQL property treats semicolons as delimiters to run multiple SQL statements. If your SQL statement contains semicolons and you want it to run as one statement, use a backslash as an escape character before the semicolons.

Note: If you are using stored procedures with the TempTablePostExecutionSQL property, be sure that you use the correct syntax for your database. The following example for Oracle calls a stored procedure and uses backslashes to escape the semicolon: begin dbms stats.collect table stats()\; end\;

Tokens available to TempTablePostExecutionSQL are described below.

Table 42. Tokens available to TempTablePostExecutionSQL

Token	Description
<amuser></amuser>	This token is replaced with the IBM Unica Marketing user name associated with the flowchart for which temp tables were created.
<campaigncode></campaigncode>	This token is replaced with the code for the campaign associated with the flowchart for which temp tables were created.
<campaignname></campaignname>	This token is replaced with the name of the campaign associated with the flowchart for which temp tables were created.
<dbuser></dbuser>	This token is replaced with the database user name for the database where the temp tables were created.
<flowchartname></flowchartname>	This token is replaced with the name of the flowchart associated with the temp table creation.
<keycolumns></keycolumns>	This token is replaced with the temp table column name(s).
<tablename></tablename>	This token is replaced with the temp table name.
<user></user>	This token is replaced with the Campaign user name of the user running the flowchart.

No default value defined.

TableListSQL

Description

Use the TableListSQL property to specify the SQL query to use to include synonyms in the list of tables available to map.

The default value is blank. This property is required if your data source is SQL Server and you want to be able to map synonyms in the returned table schema. This property is optional if you want to use a specific SQL query with other data sources in place of, or in addition to, the table schema information retrieved using the standard methods (such as an ODBC call or native connection).

Note: To ensure that Campaign works with SQL Server synonyms, you must set the UseSQLToRetrieveSchema property to TRUE in addition to setting this property as described here.

If you set this property with a valid SQL query, Campaign issues the SQL query to retrieve the list of tables for mapping. If the query returns one column, it is treated as a column of names; if the query returns two columns, the first column is assumed to be a column of owner names, and the second column is considered to be a column of table names.

If the SQL query does not begin with an asterisk (*), Campaign merges this list with the list of tables that are normally retrieved (such as through ODBC calls or native connections).

If the SQL query begins with an asterisk (*), the list returned by the SQL *replaces* the normal list, rather than being merged with it.

Default value

None

Valid Values

A valid SQL query

Example

If the data source is SQL Server, under normal circumstances the ODBC API call that Campaign uses returns a list of tables and views, but no synonyms. To include the list of synonyms as well, set TableListSQL similar to the following example:

```
select B.name AS oName, A.name AS tName
from sys.synonyms A LEFT OUTER JOIN sys.schemas B
on A.schema_id = B.schema_id ORDER BY 1, 2
```

To retrieve the list of tables, views, and synonyms, avoiding the ODBC API completely, set TableListSQL similar to the following example:

```
*select B.name AS oName, A.name AS tName from
(select name, schema_id from sys.synonyms UNION
select name, schema_id from sys.tables UNION select name,
schema_id from sys.views) A LEFT OUTER JOIN sys.schemas B on
A.schema id = B.schema id ORDER BY 1, 2
```

If the data source is Oracle, you can use a query similar to the following to retrieve the list of tables, views, and synonyms in place of the data retrieved using the native connection method that looks at the ALL_OBJECTS view:

```
*select OWNER, TABLE_NAME from (select OWNER, TABLE_NAME from ALL_TABLES UNION select OWNER, SYNONYM_NAME AS TABLE_NAME FROM ALL_SYNONYMS UNION select OWNER, VIEW NAME AS TABLE NAME from ALL VIEWS) A ORDER BY 1, 2
```

UOSQLOnConnect

Description

The SQLOnConnect property defines a complete SQL statement that Campaign runs immediately after each database connection. The UOSQLOnConnect property is similar to this, but specifically applicable to Optimize.

The SQL statement generated by this property is automatically passed to your database without checking its syntax. If you use this property, make sure that it is a legal expression. The string may be enclosed in quotation marks, but this is not required.

This property is undefined by default.

Tokens available to UOSQLOnConnect are described below.

Table 43. Tokens available to UOSQLOnConnect

Token	Description
<amuser></amuser>	This token is replaced with the IBM Unica Marketing user name associated with the flowchart for which temp tables were created.
<campaigncode></campaigncode>	This token is replaced with the code for the campaign associated with the flowchart for which temp tables were created.

Table 43. Tokens available to UOSQLOnConnect (continued)

Token	Description
<campaignname></campaignname>	This token is replaced with the name of the campaign associated with the flowchart for which temp tables were created.
<dbuser></dbuser>	This token is replaced with the database user name for the database where the temp tables were created.
<flowchartname></flowchartname>	This token is replaced with the name of the flowchart associated with the temp table creation.
<user></user>	This token is replaced with the Campaign user name of the user running the flowchart.

No default value defined.

UseSQLToRetrieveSchema

Description

Uses a SQL query, rather than an ODBC or native API call, to retrieve the schema to use as the table schema for this data source.

The default value for this property is FALSE, indicating that Campaign should use its standard method (ODBC or native connection, for example) to retrieve the schema. Setting this property to TRUE causes Campaign to prepare a SQL query similar to select * from to retrieve the table schema.

This can provide advantages that are specific to each data source. For example, some data sources (Netezza, SQL Server) do not properly report SQL synonyms (alternative names for database objects, defined using the create synonym syntax) through the default ODBC or native connections. By setting this property to TRUE, SQL synonyms are retrieved for data mapping within Campaign.

The following list describes the behavior of this setting for a number of data sources:

- For Netezza, you must set this property to TRUE to allow support for synonyms. Setting this property to TRUE tells Campaign to prepare a SQL query to retrieve the table schema. No other settings or values are needed to support synonyms in Netezza data sources.
- For SQL Server, to allow support for synonyms you must set this
 property to TRUE and enter valid SQL in the TableListSQL property for
 this data source. See the description for the TableListSQL property for
 more details.
- For Oracle data sources, setting this property to TRUE tells Campaign to prepare the SQL query to retrieve the table schema. The result set identifies NUMBER fields (no precision/scale specified, which may cause issues in Campaign) as NUMBER(38), which avoids those possible issues.
- For other data sources, you can optionally set this property to TRUE to use the default SQL select query described above, or to specify valid SQL in the TableListSQL property to use instead of, or in addition to, the ODBC API or native connection that is used by default. See the description for the TableListSQL property for more details.

Default value

FALSE

Valid Values

TRUE | FALSE

Example

To allow Campaign to work with Netezza or SQL Server synonyms: UseSQLToRetrieveSchema=TRUE

UserTablePostExecutionSQL

Description

Use the UserTablePostExecutionSQL property to specify a complete SQL statement that Campaign runs immediately after the creation of a user table in a user data source or in the system tables database.

You may want to use tokens to substitute the table name and the column name(s) (<TABLENAME> and <KEYCOLUMNS>) in this SQL statement, since these are generated dynamically during the execution of the campaign.

This property is automatically added to the SQL expression without checking its syntax. If you use this property, make sure that it is a legal expression. The string may be enclosed in quotation marks, but this is not required.

The UserTablePostExecutionSQL property treats semicolons as delimiters to run multiple SQL statements. If your SQL statement contains semicolons and you want it to run as one statement, use a backslash as an escape character before the semicolons.

Note: If you are using stored procedures with the UserTablePostExecutionSQL property, be sure that you use the correct syntax for your database. The following example for Oracle calls a stored procedure and uses backslashes to escape the semicolon: begin dbms_stats.collect_table_stats()\; end\;

Tokens available to UserTablePostExecutionSQL are described below.

Table 44. Tokens available to UserTablePostExecutionSQL

Token	Description
<amuser></amuser>	This token is replaced with the IBM Unica Marketing user name associated with the flowchart for which the user tables were created.
<campaigncode></campaigncode>	This token is replaced with the code for the campaign associated with the flowchart for which the user tables were created.
<campaignname></campaignname>	This token is replaced with the name of the campaign associated with the flowchart for which the user tables were created.
<dbuser></dbuser>	This token is replaced with the database user name for the database where the user tables were created.
<flowchartname></flowchartname>	This token is replaced with the name of the flowchart associated with the user table creation.
<keycolumns></keycolumns>	This token is replaced with the user table column name(s).
<tablename></tablename>	This token is replaced with the user table name.

Table 44. Tokens available to UserTablePostExecutionSQL (continued)

Token	Description
<user></user>	This token is replaced with the Campaign user name of the user running the flowchart.

No default value defined.

UseTempTablePool

Description

Note: This property is supported only for Teradata data sources. For all other supported databases, set this option to FALSE.

When the UseTempTablePool property is set to TRUE, temp tables are not dropped from the database. Temp tables are truncated and reused from the pool of tables maintained by Campaign. When set to FALSE, temp tables are dropped and re-created every time a flowchart is run.

Default value

FALSE

Valid Values

TRUE | FALSE

SegmentTablePostExecutionSQL

Description

Use the SegmentTablePostExecutionSQL property to specify a complete SQL statement that Campaign runs after a Segment temp table has been created and populated.

Tokens available to SegmentTablePostExecutionSQL are described below.

Table 45. Tokens available to SegmentTablePostExecutionSQL

Token	Description
<amuser></amuser>	This token is replaced with the IBM Unica Marketing user name associated with the flowchart for which the Segment temp table was created.
<campaigncode></campaigncode>	This token is replaced with the code for the campaign associated with the flowchart for which the Segment temp table was created.
<campaignname></campaignname>	This token is replaced with the name of the campaign associated with the flowchart for which the Segment temp table was created.
<dbuser></dbuser>	This token is replaced with the database user name for the database where the Segment temp table was created.
<flowchartname></flowchartname>	This token is replaced with the name of the flowchart associated with the Segment temp table creation.
<keycolumns></keycolumns>	This token is replaced with the Segment temp table column name(s).
<tablename></tablename>	This token is replaced with the Segment temp table name.

Table 45. Tokens available to SegmentTablePostExecutionSQL (continued)

Token	Description
	This token is replaced with the Campaign user name of the user running the flowchart.

Default value

Not defined

Valid Values

A valid SQL statement

SnapshotTablePostExecutionSQL

Description

Use the SnapshotTablePostExecutionSQL property to specify one or more complete SQL statements to run immediately after a Snapshot table has been created and populated.

Tokens available to SnapshotTablePostExecutionSQL are described below.

Table 46. Tokens available to SnapshotTablePostExecutionSQL

Token	Description
<amuser></amuser>	This token is replaced with the IBM Unica Marketing user name associated with the flowchart for which the Snapshot table was created.
<campaigncode></campaigncode>	This token is replaced with the code for the campaign associated with the flowchart for which the Snapshot table was created.
<campaignname></campaignname>	This token is replaced with the name of the campaign associated with the flowchart for which the Snapshot table was created.
<dbuser></dbuser>	This token is replaced with the database user name for the database where the Snapshot table was created.
<flowchartname></flowchartname>	This token is replaced with the name of the flowchart associated with the Snapshot table creation.
<keycolumns></keycolumns>	This token is replaced with the Snapshot table column name(s).
<tablename></tablename>	This token is replaced with the Snapshot table name.
<user></user>	This token is replaced with the Campaign user name of the user running the flowchart.

Default value

Not defined

Valid Values

A valid SQL statement

TempTablePrefix

Description

The TempTablePrefix parameter specifies a string that is automatically prepended to the names of all temporary tables created by Campaign. Use

this parameter to help you identify and manage your temp tables. You also can use this property to cause temp tables to be created in a particular location.

For example, if the user token corresponds to a schema, you can set TempTablePrefix="<USER>"

and all temp tables will be created in the schema of whatever user is connected to the data source.

Tokens available to TempTablePrefix are described below.

Table 47. Tokens available to TempTablePrefix

Token	Description
<amuser></amuser>	This token is replaced with the IBM Unica Marketing user name associated with the flowchart for which temp tables were created.
<campaigncode></campaigncode>	This token is replaced with the code for the campaign associated with the flowchart for which temp tables were created.
<campaignname></campaignname>	This token is replaced with the name of the campaign associated with the flowchart for which temp tables were created.
<dbuser></dbuser>	This token is replaced with the database user name for the database where the temp tables were created.
<flowchartname></flowchartname>	This token is replaced with the name of the flowchart associated with the temp table creation.
<user></user>	This token is replaced with the Campaign user name of the user running the flowchart.

Note: You must make sure that the final temp table name after resolving tokens does not exceed any database-specific name length restrictions.

Note: In tokens used for TempTablePrefix, any characters that are not valid for database table names will be stripped. After tokens are resolved, the resulting temp table prefixes must start with an alphabetic character, and must contain only alphanumeric characters or underscore characters. Illegal characters will be removed silently. If any resulting temp table prefix does not begin with an alphabetic character, Campaign prepends the letter "U" to the prefix.

Default value

UAC

TempTablePreTruncateExecutionSQL

Description

Note: This property is supported only for Teradata data sources. For all other supported databases, this property should not be set.

Use the TempTablePreTruncateExecutionSQL property to specify a SQL query to run before a temp table is truncated. The query that you specify can be used to negate the effect of a SQL statement specified in the TempTablePostExecutionSQL property.

For example, with the TempTablePostExecutionSQL property, you could specify the following SQL statement to create an index:

CREATE INDEX <TABLENAME>Idx_1 (<KEYCOLUMNS>) ON <TABLENAME>

Then, specify the following query in the

TempTablePreTruncateExecutionSQL property to drop the index:

DROP INDEX <TABLENAME>Idx 1 ON <TABLENAME>

Default value

Not defined

Valid Values

A valid SQL query

TempTablePreTruncateRunScript

Description

Note: This property is supported only for Teradata data sources. For all other supported databases, this property should not be set.

Use the TempTablePreTruncateRunScript property to specify a script or executable to run before a temp table is truncated. The script that you specify can be used to negate the effect of a SQL statement specified in the PostTempTableCreateRunScript property.

For example, with the PostTempTableCreateRunScript property, you could specify a script that includes the following SQL statement to create an index:

CREATE INDEX <TABLENAME>Idx 1 (<KEYCOLUMNS>) ON <TABLENAME>

Then, specify another script with the following statement in the TempTablePreTruncateRunScript property to drop the index:

DROP INDEX <TABLENAME>Idx 1 ON <TABLENAME>

Default value

Not defined

Valid Values

File name of a shell script or executable

TeradataDeleteBeforeDrop

Description

The TeradataDeleteBeforeDrop parameter applies only to Teradata data sources. It specifies whether records are deleted before a table is dropped.

Set this value to TRUE to delete all records from a table before dropping the table.

Note: If Campaign is unable to delete the records for any reason, it will not drop the table.

Set this value to FALSE to drop a table without first deleting all records.

Default value

TRUE

TruncateSQL

Description

The TruncateSQL property is available for use with DB2 data sources, and allows you to specify alternate SQL for table truncation. This property applies only when DeleteAsTruncate is set to TRUE. When DeleteAsTruncate is set to TRUE, any custom SQL in this property is used to truncate a table. When this property is not set, Campaign uses the TRUNCATE TABLE <TABLENAME> syntax.

This parameter is undefined by default.

Tokens available to TruncateSQL are described below.

Table 48. Tokens available to TruncateSQL

Token	Description
	This token is replaced with the database table name that Campaign is truncating.

Default value

No default value defined.

Type

Description

The partitions > partition[n] > dataSources > [data_source_name] > type property specifies the database type of this data source.

Default value

The default value depends on the database template used to create the data source configuration.

Valid Values

Valid values for system tables are:

- SQLServer
- DB2
- DB20DBC
- ORACLE
- ORACLE8
- ORACLE9

Valid values for customer tables also include:

- SYBASE
- INFORMIX7
- INFORMIX8
- INFORMIX9
- TERADATA
- NETEZZA
- SAS
- SASDB

UseExceptForMerge

Description

When Campaign performs exclusions in the Merge process or in the Segment process, by default it uses "NOT EXISTS" syntax, as:

```
SELECT IncludeTable.ID FROM IncludeTable WHERE NOT EXISTS (SELECT * FROM ExcludeTable WHERE IncludeTable.ID = ExcludeTable.ID)
```

If UseExceptForMerge is set to TRUE and we cannot use "NOT IN" (because UseNotInForMerge is disabled, or because the audience level consists of multiple fields and the data source is not Oracle), then the syntax is altered as follows:

Oracle

SELECT IncludeTable.ID FROM IncludeTable MINUS (SELECT ExcludeTable.ID FROM ExcludeTable)

Others

SELECT IncludeTable.ID FROM IncludeTable EXCEPT (SELECT ExcludeTable.ID FROM ExcludeTable)

Default value

FALSE

Valid Values

TRUE | FALSE

UseMergeForTrack

Description

Implements SQL MERGE syntax to improve the performance of the Track process. The UseMergeForTrack property can be set to TRUE for DB2, Oracle, SQL Server 2008, and Teradata 12. It can also be used with other databases that support the SQL MERGE statement.

Default value

```
TRUE (DB2 and Oracle) | FALSE (all others)
```

Valid Values

TRUE | FALSE

UseNonANSIJoin

Description

The UseNonANSIJoin property specifies whether this data source uses non-ANSI join syntax (for example, for Oracle versions earlier than 8, and Informix8).

- If the data source type is set to Informix8, the value of UseNonANSIJoin is ignored, and non-ANSI join syntax appropriate for Informix8 is always used.
- If the data source type is set to Oracle7 or Oracle8, and the value of UseNonANSIJoin is set to TRUE, the data source uses non-ANSI join syntax appropriate for Oracle.
- If the data source type is set to Sybase, and the value of UseNonANSIJoin is set to TRUE, the data source uses non-ANSI join syntax appropriate for Sybase.

Default value

FALSE

Valid Values

TRUE | FALSE

UseNotInForMerge

Description

When Campaign performs exclusions in the Merge process or in the Segment process, by default it uses "NOT EXISTS" syntax, as:

SELECT IncludeTable.ID FROM IncludeTable WHERE NOT EXISTS (SELECT * FROM ExcludeTable WHERE IncludeTable.ID = ExcludeTable.ID)

If UseNotInForMerge is enabled (value set to YES), and either (1) the audience level is composed of a single ID field, or (2) the data source is Oracle, then the syntax is altered as follows:

SELECT IncludeTable.ID FROM IncludeTable WHERE IncludeTable.ID NOT IN (SELECT ExcludeTable.ID FROM ExcludeTable)

Default value

NO

Valid Values

YES | NO

UseSQLToProfile

Description

The UseSQLToProfile property allows you to configure Campaign to submit the SQL query GROUP BY to the database to compute profiles (using "SELECT field, count(*) FROM table GROUP BY field"), rather than fetching records.

- A value of FALSE (the default) causes Campaign to profile a field by retrieving the field value for all records in the table and to track the count of each distinct value.
- A value of TRUE causes Campaign to profile a field by issuing a query similar to the following:

SELECT field, COUNT(*) FROM table GROUP BY field

which pushes the burden to the database.

Default value

FALSE

Valid Values

TRUE | FALSE

Campaign | partitions | partition[n] | systemTableMapping

Properties in the systemTableMapping category are populated automatically if you remap any system tables or map Contact or Response history tables. You should not edit properties in this category.

Campaign | partitions | partition[n] | server | systemCodes

Properties in this category specify, for Campaign, whether variable length codes are allowed, the format and generator of the campaign and cell codes, whether offer codes are displayed, and the offer code delimiter.

offerCodeDelimiter

Description

The offerCodeDelimiter property is used internally to concatenate multiple code parts (for example, to output the OfferCode field in Campaign Generated Fields) and for incoming offer codes in the Campaign Response process, to split the offer code into multiple parts. The value must be only a single character.

Note that in this version of Campaign, the NumberOfOfferCodesToUse parameter no longer exists. This value now comes from the offer template (every offer template can have a different number of offer codes).

Default value

-

allowVariableLengthCodes

Description

The allowVariableLengthCodes property specifies whether variable length codes are allowed in Campaign.

If the value is yes, and if the trailing part of the code format is x, the length of the code can vary. For example, if the code format is nnnnxxxx, then the code can be from 4 to 8 characters long. This applies to campaign, offer, version, tracking, and cell codes.

If the value is no, variable length codes are not allowed.

Default value

no

Valid Values

yes no

displayOfferCodes

Description

The displayOfferCodes property specifies whether to show offer codes beside their names in the Campaign GUI.

If the value is yes, offer codes are displayed.

If the value is no, offer codes are not displayed.

Default value

no

Valid Values

yes | no

cellCodeFormat

Description

The cellCodeFormat property is used by the campaign code generator to define the format of the cell code that is automatically created by the default cell code generator.

For a list of valid values, see campCodeFormat.

Default value

Annnnnnnn

campCodeFormat

Description

The campCodeFormat property is used by the campaign code generator to define the format of the campaign code that is automatically generated by the default campaign code generator when you create a campaign.

Default value

Cnnnnnnnn

Valid Values

The possible values are as follows:

- A-Z or any symbol treated as a constant
- a random letters A-Z (upper case only)
- c random letters A-Z or numbers 0-9
- n random digit 0-9
- x any single ASCII character from 0-9 or A-Z. You can edit the generated campaign code and replace the ASCII character that Campaign substituted for the x with any ASCII character, and Campaign will use that character instead.

cellCodeGenProgFile

Description

The cellCodeGenProgFile property specifies specifies the name of the cell code generator, and if the generator is the default one supplied by Campaign, any supported options. Note that the properties that control the format of the code generated are set in the cellCodeFormat property. See campCodeGenProgFile for a list of supported options.

If you write your own cell code generator, replace the default value with the absolute path of your custom program, including the file name and extension, and using forward slashes (/) for UNIX and backslashes (\) for Windows.

Default value

uaccampcodegen (the code generator supplied by Campaign)

campCodeGenProgFile

Description

The campCodeGenProgFile property specifies the name of the campaign code generator, and if the generator is the default one supplied by Campaign, any supported options.

Note that the properties that control the format of the code generated are set in the campCodeFormat property.

If you write your own campaign code generator, replace the default value with the absolute path of your custom program, including the file name and extension, and using forward slashes (/) for UNIX and backslashes (\) for Windows.

The default campaign code generator can be called with the following options:

- -y Year (four integers)
- -m Month (one or two integers, cannot exceed value of twelve)
- -d Day (one or two integers, cannot exceed value of 31)
- -n Campaign name (any string, cannot exceed 64 characters)
- -0 Campaign owner (any string, cannot exceed 64 characters)
- -u Campaign code (any integer). Allows you to specify the exact campaign ID rather than having the application generate one for you.
- -f Code format if overriding the default. Takes the values specified in campCodeFormat.
- -i Other integer.
- -s Other string.

Default value

uaccampcodegen (the code generator supplied by Campaign)

Campaign | partitions | partition[n] | server | encoding

The property in this category specifies the text encoding for values written to files, to support non-English data.

stringEncoding

Description

The partition[n] > server> encoding > stringEncoding property how Campaign reads in and writes out flat files. It should match the encoding used for all flat files. If not configured elsewhere, this is the default setting for flat file encoding.

Note: WIDEUTF-8 is not supported for this setting.

By default, no value is specified, and outgoing text files are encoded as UTF-8, which is the default encoding for Campaign.

It is a best practice to explicitly set this value to an encoding appropriate for your system, even if the value is UTF-8, the same as the implicit default.

Note: If you do not set the value of the StringEncoding property for data sources in the dataSources category, the value of this stringEncoding property is used as the default value. This can cause unnecessary confusion -- you should always explicitly set the StringEncoding property in the dataSources category.

See the Campaign Administrator's Guide for a list of supported encodings.

Default value

No default value defined.

forceDCTOneBytePerChar

Description

The forceDCTOneBytePerChar property specifies whether Campaign should use the original field width for output files, rather than the potentially expanded width reserved to allow sufficient space for transcoding into UTF-8.

A text value may have different lengths, depending on the encoding used to represent it. When the text value comes from a data source whose stringEncoding property is neither ASCII nor UTF-8, Campaign reserves three times the field width in order to ensure sufficient space for transcoding into UTF-8. For example, if the stringEncoding property is set to LATIN1, and the field in the database is defined as VARCHAR(25), Campaign will reserve 75 bytes to hold the transcoded UTF-8 value. Set the forceDCTOneBytePerChar property to TRUE if you want to use the original field width.

Default value

FALSE

Valid Values

TRUE | FALSE

Campaign | partitions | partition[n] | server | timeout

The properties in this category specify the number of seconds an Campaign flowchart waits, after the user has disconnected and all runs have completed, before exiting, and the Campaign server process waits for a response from external servers before reporting an error.

waitForGracefulDisconnect

Description

The waitForGracefulDisconnect property specifies whether the Campaign server process continues to run until the user gracefully disconnects, or exits regardless of whether the user intended to disconnect.

If the value is yes, the default, the server process continues to run until it can determine that the user wants it to exit. This option prevents changes from being lost, but can result in server processes accumulating.

If the value is no, the server process shuts down and server processes are prevented from accumulating, but users can lose work if a network interruption occurs or if they do not follow the recommended sequence of actions to exit gracefully.

Default value

yes

Valid Values

yes | no

urlRequestTimeout

Description

The urlRequestTimeout property specifies the number of seconds the Campaign server process waits for a response from external servers. Currently, this applies to requests to IBM Unica Marketing servers and eMessage components that operate with Campaign.

If the Campaign server process does not receive a response within this period, a communication timeout error is reported.

Default value

60

delayExitTimeout

Description

The delayExitTimeout property specifies the number of seconds an Campaign flowchart waits, after the user has disconnected and all runs have completed, before exiting.

Setting this property to a non-0 value enables subsequent Campaign flowcharts to make use of existing instances rather than starting a new instance.

Default value

10

Campaign | partitions | partition[n] | server | collaborate

collaborateInactivityTimeout

Description

The collaborateInactivityTimeout property specifies the number of seconds the unica_acsvr process waits after it finishes servicing a Distributed Marketing request before it exits. This waiting period allows the process to remain available in the typical scenario in which Distributed Marketing makes a series of requests prior to running the Flowchart.

The minimum value is 1. Setting this property to 0 causes it to default to 60.

Default value

60

Campaign | partitions | partition[n] | server | permissions

The properties in this category specify the permissions set on folders created by Campaign, and the UNIX group and permissions set on files contained in the **profile** directory.

userFileGroup (UNIX only)

Description

The userFileGroup property specifies a group associated with user-generated Campaign files. The group will be set only if the user is a member of the specified group.

This property is undefined by default.

Default value

No default value defined.

catalogFolderPermissions

Description

The catalogFolderPermissions property specifies the permissions of directories created by Campaign through the Stored Table Catalogs > Create Folder window.

Default value

755 (owner has read/write/execute access, group and world have execute/read access)

templateFolderPermissions

Description

The templateFolderPermissions property specifies the permissions of template directories created by Campaign through the Stored Templates > Create Folder window.

Default value

755 (owner has read/write/execute access, group and world have read/execute access)

adminFilePermissions (UNIX only)

Description

The adminFilePermissions property specifies a permission bit mask for the files contained in the profile directory.

Default value

660 (owner and group have read/write access only)

userFilePermissions (UNIX only)

Description

The userFilePermissions property specifies a permission bit mask for user generated Campaign files (for example, log files, summary files, exported flat files).

Default value

666 (everyone can read and write files created by Campaign in the server)

adminFileGroup (UNIX only)

Description

The adminFileGroup property specifies a UNIX admin group associated with files contained in the profile directory.

This property is undefined by default.

Default value

No default value defined.

Campaign | partitions | partition[n] | server | flowchartConfig

Properties in this category specify the behavior of the Campaign Generated Field, whether duplicate cell codes are allowed, and whether the Log to Contact History option defaults to enabled.

allowDuplicateCellcodes

Description

The allowDuplicateCellcodes property specifies whether the cell codes in the Campaign Snapshot process can have duplicate values.

If the value is no, the Campaign server enforces unique cell codes.

If the value is yes, the Campaign server does not enforce unique cell codes.

Default value

yes

allowResponseNDaysAfterExpiration

Description

The allowResponseNDaysAfterExpiration property specifies the maximum number of days after all offer expiration dates that responses can tracked. These late responses can be included in performance reports.

Default value

90

agfProcessnameOutput

Description

The agfProcessnameOutput property specifies the output behavior of the Campaign Generated Field (UCGF) in the List, Optimize, Response, and Snapshot processes.

If the value is PREVIOUS, the UCGF contains the process name associated with the incoming cell.

If the value is CURRENT, the UCGF holds the process name of the process in which it is used.

Default value

PREVIOUS

Valid Values

PREVIOUS | CURRENT

logToHistoryDefault

Description

The logToHistoryDefault property specifies whether the Log to Contact History and Tracking Tables option in the Log tab of the Campaign contact processes defaults to enabled.

If the value is yes, the option is enabled.

If the value is no, the option is disabled in any newly created contact processes.

Default value

yes

Valid Values

yes | no

defaultBehaviorWhenOutputToFile

Description

Specifies the behavior for contact processes in Campaign when outputting to a file. This property applies only within the current partition. This default behavior (if set) is only applied for processes when they are newly added to flowcharts; once a process is added to a flowchart, the output behavior can be changed in the process configuration.

Default value

Replace All Records

Valid Values

- · Append to Existing Data
- Create New File
- Replace All Records

defaultBehaviorWhenOutputToDB

Description

Specifies the behavior for contact processes in Campaign when outputting to a database table. This property applies only within the current partition. This default behavior (if set) is only applied for processes when they are newly added to flowcharts; once a process is added to a flowchart, the output behavior can be changed in the process configuration.

Default value

Replace All Records

Valid Values

- Append to Existing Data
- Replace All Records

replaceEmbeddedNames

Description

When replaceEmbeddedNames is TRUE, Campaign replaces user variable and UCGF names embedded in query text with actual values, although these names must be separated by a non-alphanumeric character, such as an underscore (for example, ABC_UserVar.v1 will be substituted but ABCUserVar.v1 will not). Set this property to TRUE for backwards compatibility with Campaign 7.2 and earlier.

When set to FALSE, Campaign replaces only distinct user variable and UCGF names with actual values (in both Unica and raw SQL expressions). Set this property to FALSE for backwards compatibility with Campaign 7.3 and higher.

Default value

FALSE

Valid Values

TRUE | FALSE

Campaign | partitions | partition[n] | server | flowchartSave

The properties in this category specify the default settings for a new Campaign flowchart's auto-save and checkpoint properties.

checkpointFrequency

Description

The checkpointFrequency property specifies (in minutes) the default setting for a new Campaign flowchart's checkpoint property, configurable for each flowchart through the client-side Advanced Settings window. The checkpoint feature provides the ability to capture a snapshot of a running flowchart for recovery purposes.

Default value

0 (zero)

Valid Values

Any integer

autosaveFrequency

Description

The autosaveFrequency property specifies (in minutes) the default setting for a new Campaign flowchart's auto-save property, configurable for each flowchart through the client-side Advanced Settings window. The auto-save function performs a forced save of flowcharts during editing and configuration.

Default value

0 (zero)

Valid Values

Any integer

Campaign | partitions | partition[n] | server | dataProcessing

Properties in the this category specify how Campaign handles string comparisons and empty fields in flat files, and the behavior of the macro STRING_CONCAT.

longNumericIdsAsText

Description

The longNumericIdsAsText property specifies whether the Campaign macro language will treat numeric IDs longer than 15 digits as text.

Set the value to yes to specify that numeric IDs longer than 15 digits will be treated as text.

Set the value to no to specify that numeric IDs longer than 15 digits are treated as numeric values (and thus might lose precision or uniqueness if truncated or rounded).

Note: This setting is ignored if the partitions > partition[n] > dataSources > [data_source_name] > ForceNumeric property is set to TRUE for fields coming from this data source.

Default value

no

Valid Values

yes | no

stringConcatWithNullIsNull

Description

The stringConcatWithNullIsNull property controls the behavior of the Campaign macro STRING CONCAT.

When the value is yes, $STRING_CONCAT$ returns NULL if any of its inputs is NULL.

When the value is no, STRING_CONCAT returns the concatenation of all of its non-NULL properties; in this case, STRING_CONCAT returns NULL only if all of its inputs are NULL.

Default value

yes

Valid Values

yes no

performCaseInsensitiveComparisonAs

Description

The performCaseInsensitiveComparisonAs property specifies how Campaign compares data values when the compareCaseSensitive property is set to no (that is, during case-insensitive comparisons). This property is ignored if the value of compareCaseSensitive is yes.

When the value is UPPER, Campaign converts all data to upper case before comparing.

When the value is LOWER, Campaign converts all data to lower case before comparing.

Default value

LOWER

Valid Values

UPPER | LOWER

upperAllowsDate

Description

The upperAllowsDate property specifies whether the UPPER database function allows a DATE/DATETIME parameter, and therefore whether the operation may be performed in the database or must be performed by the Campaign server.

Set the value to yes if the database is SQL Server or Oracle. The UPPER function in these databases allows a DATE/DATETIME parameter.

Set the value to no if the database is DB2, Teradata, Sybase, or Informix. The UPPER function in these databases does not allow a DATE/DATETIME parameter.

Note that this setting is global, not per data source. If a value of no is recommended for any data source in use, set the value to no. If a value of yes is recommended for all data sources in use, set the value to yes.

Default value

ves

Valid Values

yes no

compareCaseSensitive

Description

The compareCaseSensitive property specifies whether the Campaign data comparisons are sensitive to alphabetic case (UPPER vs. lower).

When the value is no, Campaign ignores case differences when comparing data values and sorts textual data in a binary, case-insensitive manner. This setting is strongly recommended when English data is used.

When the value is yes, Campaign distinguishes data values based on case differences, performing a true binary-value comparison of each character. This setting is strongly recommended when non-English data is used.

Default value

nο

Valid Values

yes | no

IowerAllowsDate

Description

The lowerAllowsDate property specifies whether the LOWER database function allows a DATE/DATETIME parameter, and therefore whether the operation may be performed in the database or must be performed by the Campaign server.

Set the value to yes if the database is SQL Server or Oracle. The LOWER function in these databases allows a DATE/DATETIME parameter.

Set the value to no if the database is DB2, Teradata, Sybase, or Informix. The LOWER function in these databases does not allow a DATE/DATETIME parameter.

Note that this setting is global, not per data source. If a value of no is recommended for any data source in use, set the value to no. If a value of yes is recommended for all data sources in use, set the value to yes. Typically, only one database type is in use at a customer site, but there are some installations in which multiple database types are in use.

Default value

yes

Valid Values

yes | no

substrAllowsDate

Description

The substrAllowsDate property specifies whether the SUBSTR/SUBSTRING database function allows a DATE/DATETIME parameter, and therefore whether the operation may be performed in the database or must be performed by the Campaign server.

Set the value to yes if the database is Oracle or Teradata. The SUBSTR/SUBSTRING function in these databases allows a DATE/DATETIME parameter.

Set the value to no if the database is SQL Server, DB2, Sybase, or Informix. The SUBSTR/SUBSTRING function in SQL Server, DB2, and Sybase does not allow a DATE/DATETIME parameter. Informix SUBSTR does accept a DATE parameter, but the DATE is first converted to text, and the conversion changes the format. So SUBSTR would return different results in the database compared with the Campaign server, so the best practice is to set substrallowsDate to no when the database is Informix.

Note that this setting is global, not per data source. If a value of no is recommended for any data source in use, set the value to no. If a value of yes is recommended for all data sources in use, set the value to yes.

Default value

yes

Valid Values

ves | no

ItrimAllowsDate

Description

The ltrimAllowsDate property specifies whether the LTRIM database function allows a DATE/DATETIME parameter, and therefore whether the operation may be performed in the database or must be performed by the Campaign server.

Set the value to yes if the database is SQL Server, Oracle, or Teradata. The LTRIM function in these databases allows a DATE/DATETIME parameter.

Set the value to no if the database is DB2, Sybase, or Informix. The LTRIM function in these databases does not allow a DATE/DATETIME parameter.

Note that this setting is global, not per data source. If a value of no is recommended for any data source in use, set the value to no. If a value of yes is recommended for all data sources in use, set the value to yes. Typically, only one database type is in use at a customer site, but there are some installations in which multiple database types are in use.

Default value

yes

Valid Values

```
yes no
```

rtrimAllowsDate

Description

The rtrimAllowsDate property specifies whether the RTRIM database function allows a DATE/DATETIME parameter, and therefore whether the operation may be performed in the database or must be performed by the Campaign server.

Set the value to yes if the database is SQL Server, Oracle, or Teradata. The RTRIM function in these databases allows a DATE/DATETIME parameter.

Set the value to no if the database is DB2, Sybase, or Informix. The RTRIM function in these databases does not allow a DATE/DATETIME parameter.

Note that this setting is global, not per data source. If a value of no is recommended for any data source in use, set the value to no. If a value of yes is recommended for all data sources in use, set the value to yes.

Default value

yes

Valid Values

yes | no

likeAllowsDate

Description

The likeAllowsDate property specifies whether the LIKE database function allows a DATE/DATETIME parameter, and therefore whether the operation may be performed in the database or must be performed by the Campaign server.

Set the value to yes if the database is SQL Server or Oracle. The LIKE function in these databases allows a DATE/DATETIME parameter.

Set the value to no if the database is DB2, Teradata, Sybase, or Informix. The LIKE function in these databases does not allow a DATE/DATETIME parameter.

Note: This setting is global, not per data source. If a value of no is recommended for any data source in use, set the value to no. If a value of yes is recommended for all data sources in use, set the value to yes.

Default value

yes

Valid Values

yes no

fileAllSpacesIsNull

Description

The fileAllSpacesIsNull property controls how Campaign interprets an empty field in a mapped flat file by specifying whether an all-spaces value in a flat file should be considered to be a NULL value.

When the value is yes, an all-spaces value is considered to be a NULL value. Campaign matches queries such as <field> is null, but fails queries such as <field> = "".

When the value is no, an all-spaces value is treated as a non-NULL empty string. Campaign matches queries such as <field> = "", but fails <field> is null.

Default value

yes

Valid Values

yes no

Campaign | partitions | partition[n] | server | optimization

Properties in this category control Campaign server optimization for partitions.

Note: This category of parameters is not related to Optimize.

maxVirtualMemory

Description

The maxVirtualMemory property specifies a default setting for a new Campaign flowchart's Affinium Virtual Memory Usage property, configurable for each flowchart through the client-side Advanced Settings window. The units are in megabytes.

Default value

128

useInDbOptimization

Description

The useInDbOptimization property specifies whether Campaign tries to perform as many operations as possible in the database instead of in the Campaign server.

If the value is no, Campaign maintains lists of IDs in the Campaign server at all times.

If the value is yes, Campaign avoids pulling the ID lists if possible.

Default value

nο

Valid Values

ves | no

maxReuseThreads

Description

The maxReuseThreads property specifies the number of operating system threads cached by the server process (unica_acsvr) for reuse. By default, the cache is disabled as this property is set to 0.

It is a best practice to use the cache when you want to reduce the overhead of thread allocation, or with operating systems that can exhibit an inability to release threads when asked to do so by an application.

Note that when the maxReuseThreads property is set to a non-zero value, it should be greater than or equal to the value of MaxQueryThreads.

Default value

0 (zero), which disables the cache

threadStackSize

Description

The threadStackSize determines the number of bytes allocated for each thread's stack. This property should be changed only under guidance from IBM. The minimum value is 128K. The maximum value is 8MB.

Default value

1048576

tempTableDataSourcesForSegments

Description

The tempTableDataSourcesForSegments property defines the list of data sources where persistent Segment temp tables should be created by the Create Seg process. This list is comma-separated.

By default, this property is blank.

Default value

No default value defined.

doNotCreateServerBinFile

Description

When this option is set to TRUE, strategic segments will not create binary files on the Campaign server; instead, strategic segments create Segment temp tables in the data source. When the value is set to TRUE, at least one data source must be specified in the Create Seg process configuration.

Default value

FALSE

Valid Values

TRUE | FALSE

forceViewForPreOptDates

Description

The default value (TRUE) forces creation of a parameterized offer attribute view in a Mail List process whose offers are assigned from Optimize. A value of FALSE causes the parameterized offer attribute view to be created only if the Mail List exports at least one parameterized offer attribute.

If this value is set to FALSE, a Mail List process configured to get its input from an Extract process (whose source is an Optimize session) may write

NULL values for EffectiveDate and ExpirationDate into the UA_Treatment table, even when the offer includes parameterized Effective and Expiration Dates. In this case, set it back to TRUE.

Default value

TRUE

Valid Values

TRUE | FALSE

Campaign | partitions | partition[n] | server | logging

Properties in this category specify, for the Campaign server, whether standard and Windows event logging are enabled, logging levels and categories, and other logging behavior.

enableWindowsEventLogging

Description

The enableWindowsEventLogging property enables or disables Campaign server logging to the Windows event log.

If the value is yes, logging to the Windows event log is enabled.

If the value is no, logging to the Windows event log is disabled. If disabled, the windowsEventLoggingLevel and windowsEventLoggingCategory settings are ignored.

Default value

nο

Valid Values

yes | no

logFileBufferSize

Description

The logFileBufferSize property is used when the value of the keepFlowchartLogOpen property is yes. It sets an upper bound on the number of log messages after which the messages will be written to file.

If the value is 1, every log message is written immediately to file, effectively disabling buffering but causing somewhat worse performance.

This property is ignored if the value of keepFlowchartLogOpen is set to no.

Default value

5

keepFlowchartLogOpen

Description

The keepFlowchartLogOpen property specifies whether Campaign opens and closes the flowchart log file each time a line is written to the log file.

If the value is no, Campaign opens and closes the flowchart log file.

If the value is yes, Campaign opens the flowchart log file only once, and closes the flowchart log file only when the flowchart's server process exits. A value of yes may improve performance of real-time flowcharts. A side effect of using the yes setting is that recently-logged messages may not be immediately visible in the log file, as Campaign flushes the log messages to file only when its internal buffer becomes full or when the number of logged messages equals the value of the logFileBufferSize property.

Default value

no

Valid Values

yes | no

logProcessId

Description

The logProcessId property controls whether the process ID (pid) of the Campaign Server process is logged in the log file.

If the value is yes, the process ID is logged.

If the value is no, the process ID is not logged.

Default value

yes

Valid Values

yes | no

logMaxBackupIndex

Description

The logMaxBackupIndex property specifies the number of backup Campaign server log files that are kept before the oldest is erased.

If the value is 0 (zero), no backup files are created, and the log file is truncated when it reaches the size specified by the logFileMaxSize property.

For a value of n, where n is greater than zero, the files {File.1, ..., File.n-1} are renamed to {File.2, ..., File.n}. Also, File is renamed File.1 and closed. A new File is created to receive further log output.

Default value

1 (creates one backup log file)

loggingCategories

Description

The loggingCategories property specifies the category of messages written to the Campaign server log file. This works in conjunction with loggingLevels, which determines which messages are logged based on severity (for all selected categories). You can specify multiple categories in a comma-separated list. The special category all provides a shorthand for specifying all logging categories.

Default value

ALL

Valid Values

Supported categories are:

- ALL
- BAD ORDER
- CELL_ACCESS
- CONFIG
- DATA ERRORS
- DBLOAD
- FILE ACCESS
- GENERAL
- COMMANDS
- MEMORY
- PROCRUN
- QUERY
- SORT
- SYSQUERY
- TABLE ACCESS
- TABLE MAPPING
- TABLE IO
- WEBPROC

loggingLevels

Description

The loggingLevels property controls the amount of detail written to the Campaign server log file, based on severity.

Default value

MEDIUM

Valid Values

- LOW
- MEDIUM
- HIGH
- ALL

LOW represents the least detail (the most severe errors only), and ALL includes trace messages and is intended primarily for diagnostic purposes. You can adjust these settings from within a flowchart through the Tools >Logging Options menu.

Note: You may want to set the loggingLevels property to ALL during configuration and testing, to maximize the logging output from Campaign for diagnostic purposes. This setting generates a large amount of data and therefore may not be advisable for production operation.

windowsEventLoggingCategories

Description

The windowsEventLoggingCategories property specifies the category of messages written to the Campaign server windows event log. This works

in conjunction with windowsEventLoggingLevels, which determines which messages are logged based on severity (for all selected categories).

You can specify multiple categories in a comma-separated list. The special category all provides a shorthand for specifying all logging categories.

Default value

ALL

Valid Values

- ALL
- BAD_ORDER
- CELL ACCESS
- CONFIG
- DATA_ERRORS
- DBLOAD
- FILE ACCESS
- GENERAL
- COMMANDS
- MEMORY
- PROCRUN
- QUERY
- SORT
- SYSQUERY
- TABLE ACCESS
- TABLE MAPPING
- TABLE IO
- WEBPROC

logFileMaxSize

Description

The logFileMaxSize property specifies the maximum size, in bytes, that the Campaign server log file is allowed to reach before being rolled over to backup files.

Default value

10485760 (10 MB)

windowsEventLoggingLevels

Description

The windowsEventLoggingLevels property controls the amount of detail written to the Campaign server windows event log based on severity.

Default value

MEDIUM

Valid Values

- LOW
- MEDIUM
- HIGH

ALL

LOW represents the least detail (the most severe errors only), and ALL includes trace messages and is intended primarily for diagnostic purposes.

enableLogging

Description

The enableLogging property specifies whether Campaign server logging is turned on at session startup.

If the value is yes, logging is turned on.

If the value is no, logging is turned off.

Default value

yes

Valid Values

yes | no

Campaign | partitions | partition[n] | server | flowchartRun

Properties in this category specify how many errors are allowed in a Campaign Snapshot export, what files are saved when you save a flowchart, and the maximum number of IDs for each top-level process in a test run.

maxDataErrorsAllowed

Description

The maxDataErrorsAllowed property specifies the maximum number of data conversion errors allowed in an Campaign Snapshot export.

Default value

0 (zero), which allows no errors

saveRunResults

Description

The saveRunResults property specifies what files are saved when you save an Campaign flowchart.

If the value is yes, the "underscore" files are saved and, if the value of useInDbOptimization is yes, database temp tables persist.

If the value is no, only the .ses file is saved and you cannot view intermediate results if you reload the flowchart.

Default value

yes

Valid Values

yes no

testRunDefaultSize

Description

The testRunDefaultSize property specifies the default maximum number of IDs for each top-level process in an Campaign test run. A value of θ (zero) removes the limitation on the number of IDs.

Default value

0 (zero)

Campaign | partitions | partition[n] | server | profile

Properties in this category specify the maximum number of categories created during profiling for numeric and text values in Campaign.

profileMaxTextCategories

Description

The profileMaxTextCategories and profileMaxNumberCategories properties specify the maximum number of categories created in Campaign during profiling for text and numeric values, respectively.

These values are different from the setting for the number of bins displayed to the user, which can be modified through the user interface.

Default value

1048576

profileMaxNumberCategories

Description

The profileMaxNumberCategories and profileMaxTextCategories properties specify the maximum number of categories created in Campaign during profiling for numeric and text values, respectively.

These values are different from the setting for the number of bins displayed to the user, which can be modified through the user interface.

Default value

1024

Campaign | partitions | partition[n] | server | internal

Properties in this category specify integration settings and the internalID limits for the selected Campaign partition. If your Campaign installation has multiple partitions, set these properties for each partition that you want to affect.

internalIdLowerLimit

Description

The internal IdUpperLimit and internal IdLowerLimit properties constrain the Campaign internal IDs to be within the specified range. Note that the values are inclusive: that is, Campaign may use both the lower and upper limit.

Default value

0 (zero)

internalIdUpperLimit

Description

The internal IdUpperLimit and internal IdLowerLimit properties constrain the Campaign internal IDs to be within the specified range. Note that the values are inclusive: that is, Campaign may use both the lower and upper limit.

Default value

4294967295

eMessageInstalled

Description

Indicates that eMessage is installed. When you select yes, eMessage features are available in the Campaign interface.

The IBM installer sets this property to yes for the default partition in your eMessage installation. For additional partitions where you have installed eMessage, you must configure this property manually.

Default value

no

Valid Values

yes | no

interactInstalled

Description

After installing the Interact design environment, this configuration property should be set to yes to enable the Interact design environment in Campaign.

If you do not have Interact installed, set to no. Setting this property to no does not remove Interact menus and options from the user interface. To remove menus and options, you must manually unregister Interact using the configTool utility.

Default value

no

Valid Values

yes | no

Availability

This property is applicable only if you have installed Interact.

MO_UC_integration

Description

Enables integration with Marketing Operations for this partition. If you plan to set any of the following three options to Yes, you must set **MO_UC_integration** to Yes. For more information about configuring this integration, see the *IBM Unica Marketing Operations and Campaign Integration Guide*.

Default value

no

Valid Values

yes | no

MO_UC_BottomUpTargetCells

Description

Allows bottom-up cells for Target Cell Spreadsheets on this partition. When set to Yes, both top-down and bottom-up target cells are visible, but bottom-up target cells are read only. Note that **MO_UC_integration** must be enabled. For more information about configuring this integration, see the *IBM Unica Marketing Operations and Campaign Integration Guide*.

Default value

no

Valid Values

yes | no

Legacy_campaigns

Description

When the MO_UC_integration property is set to Yes, the Legacy_campaigns property enables access to campaigns created before enabling integration, including campaigns created in Campaign 7.x and linked to Plan 7.x projects. For more information about configuring this integration, see the IBM Unica Marketing Operations and Campaign Integration Guide.

Default value

no

Valid Values

yes | no

IBM Unica Marketing Operations - Offer integration

Description

Enables the ability to use Marketing Operations to perform offer lifecycle management tasks on this partition. (MO_UC_integration must be enabled. Also, Campaign integration must be enabled in Settings > Configuration > Unica > Platform.) For more information about configuring this integration, see the IBM Unica Marketing Operations and Campaign Integration Guide.

Default value

no

Valid Values

yes | no

UC_CM_integration

Description

Enables IBM Coremetrics online segment integration for a Campaign partition. If you set this option to yes, the Select process box in a flowchart will provide the option to select IBM Coremetrics Segments as input. To configure the integration for each partition, choose **Settings** > Configuration > Campaign | partitions | partition[n] | Coremetrics.

Default value

no

Valid Values

yes | no

Campaign | partitions | partition[n] | server | fileDialog

Properties in this category specify the default directories for Campaign input and output data files.

defaultOutputDirectory

Description

The defaultOutputDirectory property specifies the path used to initialize the Campaign File Selection dialog. The defaultOutputDirectory property is used when an output data file is mapped into Campaign. If no value is specified, the path is read from the environment variable UNICA_ACDFDIR.

Default value

No default value defined.

defaultInputDirectory

Description

The defaultInputDirectory property specifies the path used to initialize the Campaign File Selection dialog. The defaultInputDirectory property is used when an input data file is mapped into Campaign. If no value is specified, the path is read from the environment variable UNICA ACDFDIR.

Default value

No default value defined.

Campaign | partitions | partition[n] | offerCodeGenerator

Properties in this category specify the class, classpath, and configuration string for the offer code generator, and also the cell code generator used to assign a contact process to a Target Cell Spreadsheet cell.

offerCodeGeneratorClass

Description

The offerCodeGeneratorClass property specifies the name of the class Campaign uses as its offer code generator. The class must be fully qualified with its package name.

Default value

Note that line breaks have been added for print.

 ${\tt com.unica.campaign.core.codegenerator.samples.} \\ {\tt ExecutableCodeGenerator}$

offerCodeGeneratorConfigString

Description

The offerCodeGeneratorConfigString property specifies a string that is passed into the offer code generator plug-in when it is loaded by Campaign. By default, the ExecutableCodeGenerator (shipped with Campaign) uses this property to indicate the path (relative to Campaign application home directory) to the executable to run.

Default value

./bin

defaultGenerator

Description

The defaultGenerator property specifies the generator for the cell codes that appear in contact-style process boxes and are used to assign cells to Target Control Spreadsheet cells. The Target Control Spreadsheet manages cell and offer mappings for campaigns and flowcharts.

Default value

uacoffercodegen.exe

offerCodeGeneratorClasspath

Description

The offerCodeGeneratorClasspath property specifies the path to the class Campaign uses as its offer code generator. It can be either a full path or a relative path.

If the path ends in a slash (forward slash / for UNIX or backslash \ for Windows), Campaign assumes it to be a path to a directory that contains the Java plug-in class that should be used. If the path does not end in a slash, Campaign assumes it is the name of a jar file that contains the Java class.

If the path is relative, Campaign assumes it is relative to the Campaign application home directory.

Default value

codeGenerator.jar (packaged in the Campaign.war file)

Campaign | monitoring

Properties in the this category specify whether the Operational Monitoring feature is enabled, the URL of the Operational Monitoring server, and caching behavior. Operational Monitoring displays and allows you to control active flowcharts.

cacheCleanupInterval

Description

The cacheCleanupInterval property specifies the interval, in seconds, between automatic cleanups of the flowchart status cache.

This property is not available in versions of Campaign earlier than 7.0.

Default value

600 (10 minutes)

cacheRunCompleteTime

Description

The cacheRunCompleteTime property specifies the amount of time, in minutes, that completed runs are cached and display on the Monitoring page.

This property is not available in versions of Campaign earlier than 7.0.

Default value

4320

monitorEnabled

Description

The monitorEnabled property specifies whether the monitor is turned on.

This property is not available in versions of Campaign earlier than 7.0.

Default value

yes

serverURL

Description

The Campaign > monitoring > serverURL property specifies the URL of the Operational Monitoring server. This is a mandatory setting; modify the value if the Operational Monitoring server URL is not the default.

If Campaign is configured to use Secure Sockets Layer (SSL) communications, set the value of this property to use HTTPS. For example: serverURL=https://host:SSL port/Campaign/OperationMonitor where:

- *host* is the name or IP address of the machine on which the web application is installed
- *SSL Port* is the SSL port of the web application.

Note the https in the URL.

Default value

http://localhost:7001/Campaign/OperationMonitor

monitorEnabledForInteract

Description

If set to yes, enables Campaign JMX connector server for Interact. Campaign has no JMX security.

If set to no, you cannot connect to the Campaign JMX connector server.

This JMX monitoring is for the Interact contact and response history module only.

Default value

False

Valid Values

True | False

Availability

This property is applicable only if you have installed Interact.

protocol

Description

Listening protocol for the Campaign JMX connector server, if monitorEnabledForInteract is set to yes.

This JMX monitoring is for the Interact contact and response history module only.

Default value

JMXMP

Valid Values

JMXMP | RMI

Availability

This property is applicable only if you have installed Interact.

port

Description

Listening port for the Campaign JMX connector server, if monitorEnabledForInteract is set to yes.

This JMX monitoring is for the Interact contact and response history module only.

Default value

2004

Valid Values

An integer between 1025 and 65535.

Availability

This property is applicable only if you have installed Interact.

Campaign | ProductReindex

The creator of an offer can specify the products that are associated with that offer. When the list of products available for association with offers changes, the offer/product associations must be updated. Properties in the Campaign > ProductReindex category specify the frequency of these updates and the time of day that the first update runs.

startTime

Description

The startTime property specifies the time of day when offer/product associations are updated for the first time. The first update occurs on the

day after the Campaign server is started, and subsequent updates occur at intervals specified in the interval parameter. The format is HH:mm:ss, using a 24-hour clock.

Note that when Campaign first starts up, the startTimeproperty is used according to the following rules:

- If the time of day specified by startTime is in the future, the first offer/product associations update will occur at startTime of the current day.
- If startTime is in the past for the current day, the first update will occur
 at startTime tomorrow, or at interval minutes from the current time,
 whichever is earlier.

Default value

12:00:00 (noon)

interval

Description

The interval property specifies the time, in minutes, between updates of offer/product associations. The update occurs for the first time at the time specified in the startTime parameter, on the day after the Campaign server is started.

Default value

3600 (60 hours)

Campaign | unicaACListener

Properties in this category specify logging levels, certain access privileges, language encodings, number of operating system threads, and the protocol, host, and port of the Campaign listener. These properties need to be set only once per instance of Campaign; they do not need to be set for every partition.

enableWindowsImpersonation

Description

The enableWindows Impersonation property specifies whether Windows Impersonation is enabled in Campaign Windows. For more details about Windows Impersonation in Campaign, see the *Campaign Administrator's Guide*.

Set the value to TRUE to use Windows Impersonation.

Set the value to FALSE if Windows Impersonation is not used.

Default value

FALSE

Valid Values

TRUE | FALSE

enableWindowsEventLogging

Description

The Campaign > unicaACListener > enableWindowsEventLogging property controls logging to the Windows event log. Set this property to TRUE to log to the Windows event log.

Default value

FALSE

Valid Values

TRUE | FALSE

serverHost

Description

The serverHost property specifies the name or IP address of the machine where the Campaign listener is installed. If the Campaign listener is not installed on the same machine where IBM Unica Marketing is installed, change the value to the machine name or IP address of the machine where the Campaign listener is installed.

Default value

localhost

logMaxBackupIndex

Description

The logMaxBackupIndex property specifies how many backup files can exist before the oldest one is deleted. If you set this property to θ (zero), Campaign does not create any backup files and the log file stops logging when it reaches the size you specified in the logMaxFileSize property.

If you specify a number (N) for this property, when the log file (File) reaches the size you specified in the logMaxFileSize property, Campaign renames the existing backup files (File.1 ... File.N-1) to File.2 ... File.N, renames the current log file File.1, closes it, and and starts a new log file named File.

Default value

1 (creates one backup file)

logStringEncoding

Description

The logStringEncoding property controls the encoding used for all log files. This value should match the encoding used on the operating system. For multi-locale environments, UTF-8 is the preferred setting.

If you change this value, you should empty or remove all affected log files to prevent writing multiple encodings into a single file.

Note: WIDEUTF-8 is not supported for this setting.

Default value

native

Valid Values

See the Campaign Administrator's Guide for a list of supported encodings.

systemStringEncoding

Description

The systemStringEncoding property specifies the encoding(s) used to interpret values coming into Campaign from the operating system (file system paths and filenames, for example), as well as the encoding in which Campaign presents values back to the operating system. This value should be generally be set to native. For multi-locale environments, UTF-8 is the preferred setting.

The value can include more than one encoding, separated by commas: for example,

UTF-8, ISO-8859, CP950

Note: WIDEUTF-8 is not supported for this setting.

Default value

native

Valid Values

See the Campaign Administrator's Guide for a list of supported encodings.

loggingLevels

Description

The Campaign > unicaACListener > loggingLevels property controls the amount of detail written to the log file.

Default value

MEDIUM

Valid Values

- LOW
- MEDIUM
- HIGH

maxReuseThreads

Description

The Campaign > unicaACListener > maxReuseThreads property sets the number of operating system threads cached by the Campaign listener process (unica_aclsnr) for reuse.

It is a best practice to use the cache when you want to reduce the overhead of thread allocation, or with operating systems that can exhibit an inability to release threads when asked to do so by an application.

Default value

0 (zero), which disables the cache

logMaxFileSize

Description

The logMaxFileSize property specifies the maximum size, in bytes, that the log file can reach before rolling into the backup file.

Default value

windowsEventLoggingLevels

Description

The windowsEventLoggingLevels property controls the amount of detail written to the Windows event log file based on severity.

Default value

MEDIUM

Valid Values

- LOW
- MEDIUM
- HIGH
- ALL

The ALL level includes trace messages intended for diagnostic purposes.

serverPort

Description

The serverPort property specifies the port where the Campaign listener is installed.

Default value

4664

useSSL

Description

The useSSL property specifies whether to use Secure Sockets Layer for communications between the Campaign listener and the Campaign web application.

Also see the description for the serverPort2 property, in this category.

Default value

nο

Valid Values

yes no

serverPort2

Description

The serverPort2 property, in conjunction with the useSSLForPort2 property, also in this category, enables you to specify the use of SSL for communication between the Campaign listener and flowchart processes, separately from the communication between the Campaign web application and listener, which is specified by the serverPort and useSSL properties in this category.

All communication between Campaign components, (between the web application and listener and between the listener and server) use the mode specified by the useSSL property under any of the following conditions.

• serverPort2 is set to its default value of 0, or

- serverPort2 is set to the same value as serverPort, or
- useSSLForPort2 is set to the same value as useSSL

In these cases, a second listener port is not enabled, and communication between the Campaign listener and the flowchart (server) processes and communication between the listener and the Campaign web application use the same mode: either both non-SSL or both SSL, depending on the value of the useSSL property.

The listener uses two different modes of communication when both of the following conditions exist.

- serverPort2 is set to a non-0 value different from the value of serverPort, and
- useSSLForPort2 is set to a value different from the value of useSSL

In this case, a second listener port is enabled, and the listener and flowchart processes use the mode of communication specified by useSSLForPort2.

The Campaign web application always uses the communication mode specified by useSSL when communicating to the listener.

When SSL is enabled for communication between the Campaign listener and flowchart processes, set the value of this property (serverPort2) to an appropriate port.

Default value

0

useSSLForPort2

Description

See the description for the serverPort2 property, in this category.

Default value

FALSE

Valid Values

TRUE, FALSE

keepalive

Description

Use the keepalive property to specify, in seconds, the frequency with which the Campaign web application server sends keep alive messages on otherwise-inactive socket connections to the Campaign listener.

Using the keepalive configuration parameter enables socket connections to remain open through extended periods of application inactivity in environments configured to close inactive connections between the web application and the listener (for example, a firewall).

When there is activity on a socket, the keep alive period is automatically reset. At the DEBUG logging level in the web application server, the campaignweb.log will show evidence of the keep alive messages as they are sent to the listener.

Default value

0, which disables the keepalive feature

Valid Values

positive integers

Campaign | server

The property in this category specifies a URL that is used internally, and does not need to be changed.

fullContextPath

Description

The fullContextPath property is used internally, and specifying a value is optional. It specifies the URL that the ActiveX control uses to communicate to the application server Listener proxy.

This property is undefined by default, which causes the system to determine the URL dynamically.

Default value

No default value defined.

Campaign | logging

The property in this category specifies the location of the Campaign log properties file.

log4jConfig

Description

The log4jConfig property specifies the location of the Campaign log properties file, campaign_log4j.properties. Specify the path relative to the Campaignhome directory, including the file name. Use forward slashes (/) for UNIX and backslashes (\) for Windows.

Default value

./conf/campaign_log4j.properties

eMessage configuration properties

This section describes the eMessage configuration properties found on the Configuration page.

eMessage | serverComponentsAndLocations | hostedServices

Properties on this page specify the URLs for connecting to IBM Unica Hosted Services. eMessage uses separate connections for uploading recipient lists, metadata that describes recipient lists, and for general communication sent to the hosted environment.

You must change the default values if you are connecting to IBM Unica Hosted Services through the data center that IBMhas established in the United Kingdom. Consult IBM to determine the data center to which you are connected.

uiHostName

Description

The address that eMessage uses for all communication to IBM Unica Hosted Services, except uploading recipient lists and related metadata.

Default value

em.unicaondemand.com

If you are connecting to IBM's U.K. data center, change this value to em-eu.unicaondemand.com.

dataHostName

Description

The address that eMessage uses for uploading metadata related to recipient lists to IBM Unica Hosted Services.

Default value

em.unicaondemand.com

If you are connecting to IBM's U.K. data center, change this value to em-eu.unicaondemand.com.

ftpHostName

Description

The address that eMessage uses for uploading recipient list data (except list metadata) to IBM Unica Hosted Services.

Default value

ftp-em.unicaondemand.com

If you are connecting to IBM's U.K. data center, change this value to ftp-em-eu.unicaondemand.com.

eMessage | partitions | partition[n] | hostedAccountInfo

Properties in this category allow you to define user credentials required to access the database used to store account information required to access IBM Unica Hosted Services. Values you specify here must be defined as user settings in the Marketing Platform.

amUserForAcctCredentials

Description

Use this property to specify the Marketing Platform user that contains a Marketing Platform data source that specifies the account access credentials required to access IBM Unica Hosted Services.

Default value

asm_admin

Valid Values

Any Marketing Platform user.

amDataSourceForAcctCredentials

Description

Use this property to specify the Marketing Platform data source that defines login credentials for IBM Unica Hosted Services.

Default value

UNICA_HOSTED_SERVICES

Valid Values

A data source associated with the user you specify in amUserForAcctCredentials

eMessage | partitions | partition[n] | dataSources | systemTables

This category contains configuration properties that define the schema, connection settings, and login credentials for the database that contains the eMessage system tables in your network environment.

type

Description

Type of database that hosts the eMessage system tables.

Default value

No default value defined. You must define this property.

Valid Values

- SQLSERVER
- ORACLE9
- ORACLE10 (also used to indicate Oracle 11 databases)
- DB2

schemaName

Description

Name of the database schema for the eMessage system tables. This is the same as the schema name for the Campaign system tables.

You must include this schema name when referencing system tables in scripts.

Default value

dbo

jdbcBatchSize

Description

The number of execution requests JDBC runs on the database at a time.

Default value

10

Valid Values

An integer greater than 0.

jdbcClassName

Description

JDBC driver for system tables as defined in your Campaign web server.

Default value

No default value defined. You must define this property.

jdbcURI

Description

JDBC connection URI for system tables as defined in your Campaign web server.

Default value

No default value defined. You must define this property.

asmUserForDBCredentials

Description

Use this property to specify an IBM Unica Marketing user that will be allowed to access the eMessage system tables.

Default value

No default value defined. You must define this property.

Valid Values

Any user defined in the Marketing Platform. This should typically be the name of the system user for Campaign

amDataSourceForDBCredentials

Description

Use this property to specify the data source that defines login credentials for the database that contains the eMessage system tables. This can be the same as the data source for the Campaign system tables.

Default value

UA_SYSTEM_TABLES

Valid Values

A Marketing Platform data source associated with the IBM Unica Marketing user you specify in asmUserForDBCredentials

The data source specifies a database user and credentials used to access the eMessage system tables. If the default schema for the database user is not the schema that contains the system tables you must specify the system table schema in the JDBC connection used to access the system tables.

poolAcquireIncrement

Description

When the database connection pool runs out of connections, the number of new connections eMessage creates for the system tables. eMessage creates new connections up to the number specified in poolMaxSize.

Default value

1

Valid Values

An integer greater than 0.

poolIdleTestPeriod

Description

The number of seconds eMessage waits between testing idle connections to the eMessage system tables for activity.

Default value

100

Valid Values

An integer greater than 0.

poolMaxSize

Description

The maximum number of connections eMessage makes to the system tables. A value of zero (0) indicates there is no maximum.

Default value

100

Valid Values

An integer greater than or equal to 0.

poolMinSize

Description

The minimum number of connections eMessage makes to the system tables.

Default value

10

Valid Values

An integer greater than or equal to 0.

poolMaxStatements

Description

The maximum number of statements that eMessage stores in the PrepareStatement cache per connection to the system tables. Setting poolMaxStatements to zero (0) disables statement caching.

Default value

0

Valid Values

An integer equal to or greater than 0.

timeout

Description

The number of seconds eMessage maintains an idle database connection before dropping the connection.

If poolIdleTestPeriod is greater than 0, eMessage tests all idle, pooled, but unchecked-out connections, every timeout number of seconds.

If poolIdleTestPeriod is greater than timeout, the idle connections are dropped.

Default value

100

Valid Values

An integer equal to or greater than 0.

eMessage | partitions | partition[n] | recipientListUploader

This configuration category contains an optional property for the location of a user-defined script that performs an action in response to the actions or status of the Recipient List Uploader.

pathToTriggerScript

Description

You can create a script that triggers an action in response to the upload of a recipient list to IBM Unica Hosted Services. For example, you can create a script to send an email alert to the list designer when the list upload has completed successfully.

If you define a value for this property, eMessage will pass status information about the Recipient List Uploader to the specified location. eMessagetakes no action if you leave this property blank.

Default value

No default value defined.

Valid Values

Any valid network path.

eMessage | partitions | partition[n] | responseContactTracker

Properties in this category specify behavior for the Response and Contact Tracker (RCT). The RCT retrieves and processes data for email contacts, email delivery, and recipient responses, such as link clicks and opens.

pauseCustomerPremisesTracking

Description

eMessage stores contact and response data in a queue in IBM Unica Hosted Services. This property allows you to instruct the RCT to temporarily stop retrieving data from IBM Unica Hosted Services. When you resume tracking, the RCT downloads the accumulated data.

Default value

False

Valid Values

True | False

waitTimeToCheckForDataAvailability

Description

The RCT periodically checks for new data regarding email contacts or recipient responses. This property allows you to specify how often, in seconds, the RCT checks for new data in IBM Unica Hosted Services. The default value is 300 seconds, or every 5 minutes.

Default value

300

Valid Values

Any integer greater than 1.

perfLogInterval

Description

This property allows you to specify how often the RCT logs performance statistics to a log file. The value you enter determines the number of batches between log entries.

Default value

10

Valid Values

An integer greater than 0.

enableSeparatePartialResponseDataTracking

Description

This property determines if eMessage forwards partial email response data to the tracking tables in your local eMessage installation.

eMessage requires the Mailing Instance ID and Message Sequence Number to properly attribute email responses. When you enable separate partial response data tracking, eMessage places the incomplete responses in separate local tracking tables where you can review them or perform additional processing.

Default value

True

Valid Values

True | False

Interact configuration properties

This section describes the Interact configuration properties found on the Configuration page.

Interact runtime environment configuration properties

This section describes all the configuration properties for the Interact runtime environment.

Interact | general

These configuration properties define general settings for your runtime environment environment, including the default logging level and the locale setting.

log4jConfig

Description

The location of the file containing the log4j properties. This path must be relative to the INTERACT_HOME environment variable. INTERACT_HOME is the location of the Interact installation directory.

Default value

./conf/interact_log4j.properties

asmUserForDefaultLocale

Description

The asmUserForDefaultLocale property defines the IBM Unica Marketing user from which Interact derives its locale settings.

The locale settings define what language displays in the design time and what language advisory messages from the Interact API are in. If the locale setting does not match your machines operating system settings, Interact still functions, however the design time display and advisory messages may be in a different language.

Default value

No default value defined.

Interact | general | learningTablesDataSource

These configuration properties define the data source settings for the built-in learning tables. You must define this data source if you are using Interact built-in learning.

If you create your own learning implementation using the Learning API, you can configure your custom learning implementation to read these values using the ILearningConfig interface.

indiName

Description

Use this jndiName property to identify the Java Naming and Directory Interface (JNDI) data source that is defined in the application server (Websphere or WebLogic) for the learning tables accessed by Interact runtime servers.

The learning tables are created by the aci_lrntab ddl file and contain the following tables (among others): UACI_AttributeValue and UACI OfferStats.

Default value

No default value defined.

type

Description

The database type for the data source used by the learning tables accessed by the Interact runtime servers.

The learning tables are created by the aci_lrntab ddl file and contain the following tables (among others): UACI_AttributeValue and UACI OfferStats.

Default value

SQLServer

Valid Values

SQLServer | DB2 | ORACLE

connectionRetryPeriod

Description

The ConnectionRetryPeriod property specifies the amount of time in seconds Interact automatically retries the database connection request on failure for the learning tables. Interact automatically tries to reconnect to the database for this length of time before reporting a database error or failure. If the value is set to 0, Interact will retry indefinitely; if the value is set to -1, no retry will be attempted.

The learning tables are created by the aci_lrntab ddl file and contain the following tables (among others): UACI_AttributeValue and UACI OfferStats.

Default value

-1

connectionRetryDelay

Description

The ConnectionRetryDelay property specifies the amount of time in seconds Interact waits before it tries to reconnect to the database after a failure for the learning tables. If the value is set to -1, no retry will be attempted.

The learning tables are created by the aci_lrntab ddl file and contain the following tables (among others): UACI_AttributeValue and UACI OfferStats.

schema

Description

The name of the schema containing the tables for the built-in learning module. Interact inserts the value of this property before all table names, for example, UACI_IntChannel becomes schema.UACI_IntChannel.

You do not have to define a schema. If you do not define a schema, Interact assumes that the owner of the tables is the same as the schema. You should set this value to remove ambiguity.

Default value

No default value defined.

Interact | general | prodUserDataSource

These configuration properties define the data source settings for the production profile tables. You must define this data source. This is the data source the runtime environment references when running interactive flowcharts after deployment.

jndiName

Description

Use this jndiName property to identify the Java Naming and Directory Interface (JNDI) data source that is defined in the application server (Websphere or WebLogic) for the customer tables accessed by Interact runtime servers.

Default value

No default value defined.

type

Description

The database type for the customer tables accessed by Interact runtime servers.

Default value

SOLServer

Valid Values

SQLServer | DB2 | ORACLE

aliasPrefix

Description

The AliasPrefix property specifies the way Interact forms the alias name that Interact creates automatically when using a dimension table and writing to a new table in the customer tables accessed by Interact runtime servers..

Note that each database has a maximum identifier length; check the documentation for the database you are using to be sure that the value you set does not exceed the maximum identifier length for your database.

Α

connectionRetryPeriod

Description

The ConnectionRetryPeriod property specifies the amount of time in seconds Interact automatically retries the database connection request on failure for the runtime customer tables. Interact automatically tries to reconnect to the database for this length of time before reporting a database error or failure. If the value is set to 0, Interact will retry indefinitely; if the value is set to -1, no retry will be attempted.

Default value

-1

connectionRetryDelay

Description

The ConnectionRetryDelay property specifies the amount of time in seconds Interact waits before it tries to reconnect to the database after a failure for the Interact runtime customer tables. If the value is set to -1, no retry will be attempted.

Default value

-1

schema

Description

The name of the schema containing your profile data tables. Interact inserts the value of this property before all table names, for example, UACI_IntChannel becomes schema.UACI_IntChannel.

You do not have to define a schema. If you do not define a schema, Interact assumes that the owner of the tables is the same as the schema. You should set this value to remove ambiguity.

Default value

No default value defined.

Interact | general | systemTablesDataSource

These configuration properties define the data source settings for the system tables for runtime environment. You must define this data source.

jndiName

Description

Use this jndiName property to identify the Java Naming and Directory Interface (JNDI) data source that is defined in the application server (Websphere or WebLogic) for the runtime environment tables.

The runtime environment database is the database populated with the aci_runtime and aci_populate_runtime dll scripts and, for example, contains the following tables (among others): UACI_CHOfferAttrib and UACI DefaultedStat.

No default value defined.

type

Description

The database type for the runtime environment system tables.

The runtime environment database is the database populated with the aci_runtime and aci_populate_runtime dll scripts and, for example, contains the following tables (among others): UACI CHOfferAttrib and UACI DefaultedStat.

Default value

SOLServer

Valid Values

SQLServer | DB2 | ORACLE

connectionRetryPeriod

Description

The ConnectionRetryPeriod property specifies the amount of time in seconds Interact automatically retries the database connection request on failure for the runtime system tables. Interact automatically tries to reconnect to the database for this length of time before reporting a database error or failure. If the value is set to 0, Interact will retry indefinitely; if the value is set to -1, no retry will be attempted.

The runtime environment database is the database populated with the aci runtime and aci populate runtime dll scripts and, for example, contains the following tables (among others): UACI CHOfferAttrib and ${\tt UACI_DefaultedStat}.$

Default value

-1

connectionRetryDelay

Description

The ConnectionRetryDelay property specifies the amount of time in seconds Interact waits before it tries to reconnect to the database after a failure for the Interact runtime system tables. If the value is set to -1, no retry will be attempted.

The runtime environment database is the database populated with the aci runtime and aci populate runtime dll scripts and, for example, contains the following tables (among others): UACI CHOfferAttrib and UACI DefaultedStat.

Default value

-1

schema

Description

The name of the schema containing the tables for the runtime environment. Interact inserts the value of this property before all table names, for example, UACI_IntChannel becomes schema.UACI_IntChannel.

You do not have to define a schema. If you do not define a schema, Interact assumes that the owner of the tables is the same as the schema. You should set this value to remove ambiguity.

Default value

No default value defined.

Interact | general | systemTablesDataSource | loaderProperties

These configuration properties define the settings a database loader utility for the system tables for runtime environment. You need to define these properties if you are using a database loader utility only.

databaseName

Description

The name of the database the database loader connects to.

Default value

No default value defined.

LoaderCommandForAppend

Description

The LoaderCommandForAppend parameter specifies the command issued to invoke your database load utility for appending records to the contact and response history staging database tables in Interact. You need to set this parameter to enable the database loader utility for contact and response history data.

This parameter is specified as a full path name either to the database load utility executable or to a script that launches the database load utility. Using a script allows you to perform additional setup before invoking the load utility.

Most database load utilities require several arguments to be successfully launched. These can include specifying the data file and control file to load from and the database and table to load into. The tokens are replaced by the specified elements when the command is run.

Consult your database load utility documentation for the correct syntax to use when invoking your database load utility.

This parameter is undefined by default.

Tokens available to LoaderCommandForAppend are described in the following table.

Token	Description
<controlfile></controlfile>	This token is replaced with the full path and filename to the temporary control file that Interact generates according to the template that is specified in the LoaderControlFileTemplate parameter.

Token	Description
<database></database>	This token is replaced with the name of the data source into which Interact is loading data. This is the same data source name used in the category name for this data source.
<datafile></datafile>	This token is replaced with the full path and filename to the temporary data file created by Interact during the loading process. This file is in the Interact Temp directory, UNICA_ACTMPDIR.
<dbcolumnnumber></dbcolumnnumber>	This token is replaced with the column ordinal in the database.
<fieldlength></fieldlength>	This token is replaced with the length of the field being loaded into the database.
<fieldname></fieldname>	This token is replaced with the name of the field being loaded into the database.
<fieldnumber></fieldnumber>	This token is replaced with the number of the field being loaded into the database.
<fieldtype></fieldtype>	This token is replaced with the literal "CHAR()". The length of this field is specified between the (). If your database happens to not understand the field type, CHAR, you can manually specify the appropriate text for the field type and use the <fieldlength> token. For example, for SQLSVR and SQL2000 you would use "SQLCHAR(<fieldlength>)"</fieldlength></fieldlength>
<nativetype></nativetype>	This token is replaced with the type of database into which this field is loaded.
<numfields></numfields>	This token is replaced with the number of fields in the table.
<password></password>	This token is replaced with the database password from the current flowchart connection to the data source.
<tablename></tablename>	This token is replaced with the database table name into which Interact is loading data.
<user></user>	This token is replaced with the database user from the current flowchart connection to the data source.

No default value defined.

LoaderControlFileTemplateForAppend

Description

The LoaderControlFileTemplateForAppend property specifies the full path and filename to the control file template that has been previously configured in Interact. When this parameter is set, Interact dynamically builds a temporary control file based on the template that is specified here. The path and name of this temporary control file is available to the <CONTROLFILE> token that is available to the LoaderCommandForAppend property.

Before you use Interact in the database loader utility mode, you must configure the control file template that is specified by this parameter. The control file template supports the following tokens, which are dynamically replaced when the temporary control file is created by Interact.

See your database loader utility documentation for the correct syntax required for your control file. Tokens available to your control file template are the same as those for the LoaderControlFileTemplate property.

This parameter is undefined by default.

Default value

No default value defined.

LoaderDelimiterForAppend

Description

The LoaderDelimiterForAppend property specifies whether the temporary Interact data file is a fixed-width or delimited flat file, and, if it is delimited, the character or set of characters used as delimiters.

If the value is undefined, Interact creates the temporary data file as a fixed width flat file.

If you specify a value, it is used when the loader is invoked to populate a table that is not known to be empty. Interact creates the temporary data file as a delimited flat file, using the value of this property as the delimiter.

This property is undefined by default.

Default value

Valid Values

Characters, which you may enclose in double quotation marks, if desired.

LoaderDelimiterAtEndForAppend

Description

Some external load utilities require that the data file be delimited and that each line end with the delimiter. To accommodate this requirement, set the LoaderDelimiterAtEndForAppend value to TRUE, so that when the loader is invoked to populate a table that is not known to be empty, Interact uses delimiters at the end of each line.

Default value

FALSE

Valid Values

TRUE | FALSE

LoaderUseLocaleDP

Description

The LoaderUseLocaleDP property specifies, when Interact writes numeric values to files to be loaded by a database load utility, whether the locale-specific symbol is used for the decimal point.

Set this value to FALSE to specify that the period (.) is used as the decimal point.

Set this value to TRUE to specify that the decimal point symbol appropriate to the locale is used.

Default value

FALSE

Valid Values

TRUE | FALSE

Interact | general | testRunDataSource

These configuration properties define the data source settings for the test run tables for the Interact design environment. You must define this data source for at least one of your runtime environments. These are the tables used when you perform a test run of your interactive flowchart.

jndiName

Description

Use this jndiName property to identify the Java Naming and Directory Interface (JNDI) data source that is defined in the application server (Websphere or WebLogic) for the customer tables accessed by the design environment when executing interactive flowcharts test runs.

Default value

No default value defined.

type

Description

The database type for the customer tables accessed by the design environment when executing interactive flowcharts test runs.

Default value

SQLServer

Valid Values

SQLServer | DB2 | ORACLE

aliasPrefix

Description

The AliasPrefix property specifies the way Interact forms the alias name that Interact creates automatically when using a dimension table and

writing to a new table for the customer tables accessed by the design environment when executing interactive flowcharts test runs.

Note that each database has a maximum identifier length; check the documentation for the database you are using to be sure that the value you set does not exceed the maximum identifier length for your database.

Default value

Α

connectionRetryPeriod

Description

The ConnectionRetryPeriod property specifies the amount of time in seconds Interact automatically retries the database connection request on failure for the test run tables. Interact automatically tries to reconnect to the database for this length of time before reporting a database error or failure. If the value is set to 0, Interact will retry indefinitely; if the value is set to -1, no retry will be attempted.

Default value

-1

connectionRetryDelay

Description

The ConnectionRetryDelay property specifies the amount of time in seconds Interact waits before it tries to reconnect to the database after a failure for the test run tables. If the value is set to -1, no retry will be attempted.

Default value

-1

schema

Description

The name of the schema containing the tables for interactive flowchart test runs. Interact inserts the value of this property before all table names, for example, UACI_IntChannel becomes schema.UACI_IntChannel.

You do not have to define a schema. If you do not define a schema, Interact assumes that the owner of the tables is the same as the schema. You should set this value to remove ambiguity.

Default value

No default value defined.

Interact | general | idsByType

These configuration properties define settings for ID numbers used by the contact and response history module.

initialValue

Description

The initial ID value used when generating IDs using the UACI_IDsByType table

Default value

1

Valid Values

Any value greater than 0.

retries

Description

The number of retries before generating an exception when generating IDs using the UACI_IDsByType table.

Default value

20

Valid Values

Any integer greater than 0.

Interact | general | contactAndResponseHistoryDataSource

These configuration properties define the connection settings for the contact and response history data source required for the Interact cross-session response tracking.

These settings are not related to the contact and response history module.

jndiName

Description

Use this jndiName property to identify the Java Naming and Directory Interface (JNDI) data source that is defined in the application server (WebSphere or WebLogic) for the contact and response history data source required for the Interact cross-session response tracking.

Default value

type

Description

The database type for the data source used by the contact and response history data source required for the Interact cross-session response tracking.

Default value

SQLServer

Valid Values

SQLServer | DB2 | ORACLE

connectionRetryPeriod

Description

The ConnectionRetryPeriod property specifies the amount of time in seconds Interact automatically retries the database connection request on

failure for the Interact cross-session response tracking. Interact automatically tries to reconnect to the database for this length of time before reporting a database error or failure. If the value is set to 0, Interact will retry indefinitely; if the value is set to -1, no retry will be attempted.

Default value

-1

connectionRetryDelay

Description

The ConnectionRetryDelay property specifies the amount of time in seconds Interact waits before it tries to reconnect to the database after a failure for the Interact cross-session response tracking. If the value is set to -1, no retry will be attempted.

Default value

-1

schema

Description

The name of the schema containing the tables for the Interact cross-session response tracking. Interact inserts the value of this property before all table names, for example, UACI_IntChannel becomes schema.UACI_IntChannel.

You do not have to define a schema. If you do not define a schema, Interact assumes that the owner of the tables is the same as the schema. You should set this value to remove ambiguity.

Default value

No default value defined.

Interact | flowchart

This section defines configuration settings for interactive flowcharts.

defaultDateFormat

Description

The default date format used by Interact to convert Date to String and String to Date.

Default value

MM/dd/yy

idleFlowchartThreadTimeoutInMinutes

Description

The number of minutes Interact allows a thread dedicated to an interactive flowchart to be idle before releasing the thread.

Default value

5

idleProcessBoxThreadTimeoutInMinutes

Description

The number of minutes Interact allows a thread dedicated to an interactive flowchart process to be idle before releasing the thread.

Default value

5

maxSizeOfFlowchartEngineInboundQueue

Description

The maximum number of flowchart run requests Interact holds in queue. If this number of requests is reached, Interact will stop taking requests.

Default value

1000

maxNumberOfFlowchartThreads

Description

The maximum number of threads dedicated to interactive flowchart requests.

Default value

25

maxNumberOfProcessBoxThreads

Description

The maximum number of threads dedicated to interactive flowchart processes.

Default value

50

maxNumberOfProcessBoxThreadsPerFlowchart

Description

The maximum number of threads dedicated to interactive flowchart processes per flowchart instance.

Default value

3

minNumberOfFlowchartThreads

Description

The minimum number of threads dedicated to interactive flowchart requests.

Default value

10

minNumberOfProcessBoxThreads

Description

The minimum number of threads dedicated to interactive flowchart processes.

Default value

20

sessionVarPrefix

Description

The prefix for session variables.

Default value

SessionVar

Interact | flowchart | ExternalCallouts | [ExternalCalloutName]

This section defines the class settings for custom external callouts you have written with the external callout API.

class

Description

The name of the Java class represented by this external callout.

This is the Java class that you can access with the IBM Unica Macro EXTERNALCALLOUT.

Default value

No default value defined.

classpath

Description

The classpath for the Java class represented by this external callout. The classpath must reference jar files on the runtime environment server. If you are using a server group and all runtime servers are using the same Marketing Platform, every server must have a copy of the jar file in the same location. The classpath must consist of absolute locations of jar files, separated by the path delimiter of the operating system of the runtime environment server, for example a semi-colon (;) on Windows and a colon (;) on UNIX systems. Directories containing class files are not accepted. For example, on a Unix system: /path1/file1.jar:/path2/file2.jar.

This classpath must be less than 1024 characters. You can use the manifest file in a .jar file to specify other .jar files so only one .jar file has to appear in your class path

This is the Java class that you can access with the IBM Unica Macro EXTERNALCALLOUT.

Default value

No default value defined.

Interact | flowchart | ExternalCallouts | [ExternalCalloutName] | Parameter Data | [parameterName]

This section defines the parameter settings for a custom external callout you have written with the external callout API.

value

Description

The value for any parameter required by the class for the external callout.

Default value

No default value defined.

Example

If the external callout requires host name of an external server, create a parameter category named host and define the value property as the server name.

Interact | monitoring

This set of configuration properties enables you to define JMX monitoring settings. You need to configure these properties only if you are using JMX monitoring.

There are separate JMX monitoring properties to define for the contact and response history module in the configuration properties for Interact design environment.

protocol

Description

Define the protocol for the Interact messaging service.

If you choose JMXMP you must include the following JAR files in your class path in order:

Interact/lib/InteractJMX.jar;Interact/lib/jmxremote_optional.jar

Default value

JMXMP

Valid Values

JMXMP | RMI

port

Description

The port number for the messaging service.

Default value

9998

enableSecurity

Description

A boolean which enables or disables JMXMP messaging service security for the Interact runtime server. If set to true, you must supply a user name and password to access the Interact runtime JMX service. This user

credential is authenticated by the Marketing Platform for the runtime server. Jeonsole does not allow empty password login.

This property has no effect if the protocol is RMI. This property has no effect on JMX for Campaign (the Interact design time).

Default value

True

Valid Values

True | False

Interact | profile

This set of configuration properties control several of the optional offer serving features, including offer suppression and score override.

enableScoreOverrideLookup

Description

If set to True, Interact loads the score override data from the scoreOverrideTable when creating a session. If False, Interact does not load the marketing score override data when creating a session.

If true, you must also configure the Unica > Interact > profile > Audience Levels > (Audience Level) > scoreOverrideTable property. You need to define the scoreOverrideTable property for the audience levels you require only. Leaving the scoreOverrideTable blank for an audience level disables the score override table for the audience level.

Default value

False

Valid Values

True | False

enableOfferSuppressionLookup

Description

If set to True, Interact loads the offer suppression data from the offerSuppressionTable when creating a session. If False, Interact does not load the offer suppression data when creating a session.

If true, you must also configure the Unica > Interact > profile > Audience Levels > (Audience Level) > offerSuppressionTable property. You need to define the enableOfferSuppressionLookup property for the audience levels you require only.

Default value

False

Valid Values

True | False

enableProfileLookup

Description

In a new installation of Interact, this property is deprecated. In an upgraded installation of Interact, this property is valid until the first deployment.

The load behavior for a table used in an interactive flowchart but not mapped in the interactive channel. If set to True, Interact loads the profile data from the profileTable when creating a session.

If true, you must also configure the Unica > Interact > profile > Audience Levels > (Audience Level) > profileTable property.

The Load this data in to memory when a visit session starts setting in the interactive channel table mapping wizard overrides this configuration property.

Default value

False

Valid Values

True | False

defaultOfferUpdatePollPeriod

Description

The number of seconds the system waits before updating the default offers in the cache from the default offers table. If set to -1, the system doesn't update the default offers in the cache after the initial list is loaded into the cache when the runtime server starts.

Default value

-1

Interact | profile | Audience Levels | [AudienceLevelName]

This set of configuration properties enables you to define the table names required for additional Interact features. You are only required to define the table name if you are using the associated feature.

scoreOverrideTable

Description

The name of the table containing the score override information for this audience level. This property is applicable if you have set enableScoreOverrideLookup to true. You have to define this property for the audience levels for which you want to enable a score override table. If you have no score override table for this audience level, you can leave this property undefined, even if enableScoreOverrideLookup is set to true.

Interact looks for this table in the customer tables accessed by Interact runtime servers, defined by the prodUserDataSource properties.

If you have defined the schema property for this data source, Interact prepends this table name with the schema, for example, schema.UACI ScoreOverride. If you enter a fully-qualified name, for example, mySchema. UACI ScoreOverride, Interact does not prepend the schema name.

Default value

UACI ScoreOverride

offerSuppressionTable

Description

The name of the table containing the offer suppression information for this audience level. You have to define this property for the audience levels for which you want to enable an offer suppression table. If you have no offer suppression table for this audience level, you can leave this property undefined, even if enableOfferSuppressionLookup is set to true.

Interact looks for this table in the customer tables accessed by runtime servers, defined by the prodUserDataSource properties.

Default value

UACI BlackList

profileTable

Description

In a new installation of Interact, this property is deprecated. In an upgraded installation of Interact, this property is valid until the first deployment.

The name of the table containing the profile data for this audience level.

Interact looks for this table in the customer tables accessed by runtime servers, defined by the prodUserDataSource properties.

If you have defined the schema property for this data source, Interact prepends this table name with the schema, for example, schema.UACI_usrProd. If you enter a fully-qualified name, for example, mySchema.UACI usrProd, Interact does not prepend the schema name.

Default value

No default value defined.

contactHistoryTable

Description

The name of the staging table for the contact history data for this audience level.

This table is stored in the runtime environment tables (systemTablesDataSource).

If you have defined the schema property for this data source, Interact prepends this table name with the schema, for example, schema.UACI_CHStaging. If you enter a fully-qualified name, for example, mySchema.UACI_CHStaging, Interact does not prepend the schema name.

Default value

UACI_CHStaging

chOfferAttribTable

Description

The name of the contact history offer attributes table for this audience level.

This table is stored in the runtime environment tables (systemTablesDataSource).

If you have defined the schema property for this data source, Interact prepends this table name with the schema, for example, schema.UACI CHOfferAttrib. If you enter a fully-qualified name, for example, mySchema.UACI_CHOfferAttrib, Interact does not prepend the schema name.

Default value

UACI_CHOfferAttrib

responseHistoryTable

Description

The name of the response history staging table for this audience level.

This table is stored in the runtime environment tables (systemTablesDataSource).

If you have defined the schema property for this data source, Interact prepends this table name with the schema, for example, schema. UACI RHStaging. If you enter a fully-qualified name, for example, mySchema. UACI RHStaging, Interact does not prepend the schema name.

Default value

UACI_RHStaging

crossSessionResponseTable

Description

The name of the table for this audience level required for cross-session response tracking in the contact and response history tables accessible for the response tracking feature.

If you have defined the schema property for this data source, Interact prepends this table name with the schema, for example, schema.UACI_XSessResponse. If you enter a fully-qualified name, for example, mySchema.UACI_XSessResponse, Interact does not prepend the schema name.

Default value

UACI XSessResponse

Interact | offerserving

These configuration properties define the generic learning configuration properties.

If you are using built-in learning, to tune your learning implementation, use the configuration properties for the design environment.

optimizationType

Description

The optimizationType property defines whether Interact uses a learning engine to assist with offer assignments. If set to NoLearning, Interact does not use learning. If set to BuiltInLearning, Interact uses the baysean learning engine built with Interact. If set to External Learning, Interact uses a learning engine you provide. If you select ExternalLearning, you must define the externalLearningClass and externalLearningClassPath properties.

Default value

NoLearning

Valid Values

NoLearning | BuiltInLearning | ExternalLearning

segmentationMaxWaitTimeInMS

Description

The maximum number of milliseconds that the runtime server waits for an interactive flowchart to complete before getting offers.

Default value

5000

treatmentCodePrefix

Description

The prefix prepended to treatment codes.

Default value

No default value defined.

Interact | offerserving | Built-in Learning Config

These configuration properties define the database write settings for built-in learning.

To tune your learning implementation, use the configuration properties for the design environment.

insertRawStatsIntervalInMinutes

Description

The number of minutes the Interact learning module waits before inserting more rows into the learning staging tables. You may need to modify this time based on the amount of data the learning module is processing in your environment.

Default value

5

aggregateStatsIntervalInMinutes

Description

The number of minutes the Interact learning module waits between aggregating data in the learning staging tables. You may need to modify this time based on the amount of data the learning module is processing in your environment.

Default value

15

Valid Values

An integer greater than zero.

Interact | offerserving | External Learning Config

These configuration properties define the class settings for an external learning module you wrote using the learning API.

class

Description

If optimizationType is set to ExternalLearning, set externalLearningClass to the class name for the external learning engine.

Default value

No default value defined.

Availability

This property is applicable only if optimizationType is set to ExternalLearning.

classPath

Description

If optimizationType is set to ExternalLearning, set externalLearningClass to the classpath for the external learning engine.

The classpath must reference jar files on the runtime environment server. If you are using a server group and all runtime servers are using the same Marketing Platform, every server must have a copy of the jar file in the same location. The classpath must consist of absolute locations of jar files, separated by the path delimiter of the operating system of the runtime environment server, for example a semi-colon (;) on Windows and a colon (:) on UNIX systems. Directories containing class files are not accepted. For example, on a Unix system: /path1/file1.jar:/path2/file2.jar.

This classpath must be less than 1024 characters. You can use the manifest file in a .jar file to specify other .jar files so only one .jar file has to appear in your class path

Default value

No default value defined.

Availability

This property is applicable only if optimizationType is set to ExternalLearning.

Interact | offerserving | External Learning Config | Parameter Data | [parameterName]

These configuration properties define any parameters for your external learning module.

value

Description

The value for any parameter required by the class for an external learning module.

Default value

No default value defined.

Example

If the external learning module requires a path to an algorithm solver application, you would create a parameter category called solverPath and define the value property as the path to the application.

Interact | services

The configuration properties in this category define settings for all the services which manage collecting contact and response history data and statistics for reporting and writing to the runtime environment system tables.

externalLoaderStagingDirectory

Description

This property defines the location of the staging directory for a database load utility.

Default value

No default value defined.

Valid Values

A path relative to the Interact installation directory or an absolute path to a staging directory.

If you enable a database load utility, you must set the cacheType property in the contactHist and responstHist categories to External Loader File.

Interact | services | contactHist

The configuration properties in this category define the settings for the service that collects data for the contact history staging tables.

enableLog

Description

If true, enables the service which collects data for recording the contact history data. If false, no data is collected.

Default value

True

Valid Values

True | False

cacheType

Description

Defines whether the data collected for contact history is kept in memory (Memory Cache) or in a file (External Loader file). You can use External Loader File only if you have configured Interact to use a database loader utility.

If you select Memory Cache, use the cache category settings. If you select External Loader File, use the fileCache category settings.

Default value

Memory Cache

Valid Values

Memory Cache | External Loader File

Interact | services | contactHist | cache

The configuration properties in this category define the cache settings for the service that collects data for the contact history staging table.

threshold

Description

The number of records accumulated before the flushCacheToDB service writes the collected contact history data to the database.

Default value

100

insertPeriodInSecs

Description

The number of seconds between forced writes to the database.

Default value

3600

Interact | services | contactHist | fileCache

The configuration properties in this category define the cache settings for the service that collects contact history data if you are using a database loader utility.

threshold

Description

The number of records accumulated before the flushCacheToDB service writes the collected contact history data to the database.

Default value

100

insertPeriodInSecs

Description

The number of seconds between forced writes to the database.

Default value

3600

Interact | services | defaultedStats

The configuration properties in this category define the settings for the service that collects the statistics regarding the number of times the default string for the interaction point was used.

enableLog

Description

If true, enables the service that collects the statistics regarding the number of times the default string for the interaction point was used to the UACI DefaultedStat table. If false, no default string statistics are collected.

If you are not using IBM reporting, you can set this property to false since the data collection is not required.

Default value

True

Valid Values

True | False

Interact | services | defaultedStats | cache

The configuration properties in this category define the cache settings for the service that collects the statistics regarding the number of times the default string for the interaction point was used.

threshold

Description

The number of records accumulated before the flushCacheToDB service writes the collected default string statistics to the database.

Default value

100

insertPeriodInSecs

Description

The number of seconds between forced writes to the database.

Default value

3600

Interact | services | eligOpsStats

The configuration properties in this category define the settings for the service that writes the statistics for eligible offers.

enableLog

Description

If true, enables the service that collects the statistics for eligible offers. If false, no eligible offer statistics are collected.

If you are not using IBM reporting, you can set this property to false since the data collection is not required.

Default value

True

Valid Values

True | False

Interact | services | eligOpsStats | cache

The configuration properties in this category define the cache settings for the service that collects the eligible offer statistics.

threshold

Description

The number of records accumulated before the flushCacheToDB service writes the collected eligible offer statistics to the database.

Default value

100

insertPeriodInSecs

Description

The number of seconds between forced writes to the database.

Default value

3600

Interact | services | eventActivity

The configuration properties in this category define the settings for the service that collects the event activity statistics.

enableLog

Description

If true, enables the service that collects the event activity statistics. If false, no event statistics are collected.

If you are not using IBM reporting, you can set this property to false since the data collection is not required.

Default value

True

Valid Values

True | False

Interact | services | eventActivity | cache

The configuration properties in this category define the cache settings for the service that collects the event activity statistics.

threshold

Description

The number of records accumulated before the flushCacheToDB service writes the collected event activity statistics to the database.

Default value

100

insertPeriodInSecs

Description

The number of seconds between forced writes to the database.

Default value

3600

Interact | services | customLogger

The configuration properties in this category define the settings for the service that collects custom data to write to a table (an event which uses the UACICustomLoggerTableName event parameter).

enableLog

Description

If true, enables the custom log to table feature. If false, the UACICustomLoggerTableName event parameter has no effect.

Default value

True

Valid Values

True | False

Interact | services | customLogger | cache

The configuration properties in this category define the cache settings for the service that collects custom data to a table (an event which uses the UACICustomLoggerTableName event parameter).

threshold

Description

The number of records accumulated before the flushCacheToDB service writes the collected custom data to the database.

Default value

100

insertPeriodInSecs

Description

The number of seconds between forced writes to the database.

Interact | services | responseHist

The configuration properties in this category define the settings for the service that writes to the response history staging tables.

enableLog

Description

If true, enables the service that writes to the response history staging tables. If false, no data is written to the response history staging tables.

The response history staging table is defined by the responseHistoryTable property for the audience level. The default is UACI_RHStaging.

Default value

True

Valid Values

True | False

cacheType

Description

Defines whether the cache is kept in memory or in a file. You can use External Loader File only if you have configured Interact to use a database loader utility.

If you select Memory Cache, use the cache category settings. If you select External Loader File, use the fileCache category settings.

Default value

Memory Cache

Valid Values

Memory Cache | External Loader File

Interact | services | responseHist | cache

The configuration properties in this category define the cache settings for the service that collects the response history data.

threshold

Description

The number of records accumulated before the flushCacheToDB service writes the collected response history data to the database.

Default value

100

insertPeriodInSecs

Description

The number of seconds between forced writes to the database.

3600

Interact | services | responseHist | fileCache

The configuration properties in this category define the cache settings for the service that collects the response history data if you are using a database loader utility.

threshold

Description

The number of records accumulated before Interact writes them to the database.

responseHist - The table defined by the responseHistoryTable property for the audience level. The default is UACI_RHStaging.

Default value

100

insertPeriodInSecs

Description

The number of seconds between forced writes to the database.

Default value

3600

Interact | services | crossSessionResponse

The configuration properties in this category define general settings for the crossSessionResponse service and the xsession process. You only need to configure these settings if you are using Interact cross-session response tracking.

enableLog

Description

If true, enables the crossSessionResponse service and Interact writes data to the cross-session response tracking staging tables. If false, disables the crossSessionResponse service.

Default value

False

xsessionProcessIntervalInSecs

Description

The number of seconds between runs of the xsession process. This process moves data from the cross-session response tracking staging tables to the response history staging table and the built-in learning module.

Default value

180

Valid Values

An integer greater than zero

purgeOrphanResponseThresholdInMinutes

Description

The number of minutes the crossSessionResponse service waits before marking any responses that do not match contacts in the contact and response history tables.

If a response has no match in the contact and response history tables, after purgeOrphanResponseThresholdInMinutes minutes, Interact marks the response with a value of -1 in the Mark column of the xSessResponse staging table. You can then manually match or delete these responses.

Default value

180

Interact | services | crossSessionResponse | cache

The configuration properties in this category define the cache settings for the service that collects cross-session response data.

threshold

Description

The number of records accumulated before the flushCacheToDB service writes the collected cross-session response data to the database.

Default value

100

insertPeriodInSecs

Description

The number of seconds between forced writes to the XSessResponse table.

Default value

3600

Interact | services | crossSessionResponse | OverridePerAudience | [AudienceLevel] | TrackingCodes | byTreatmentCode

The properties in this section define how cross-session response tracking matches treatment codes to contact and response history.

SQL

Description

This property defines whether Interact uses the System Generated SQL or custom SQL defined in the OverrideSQL property.

Default value

Use System Generated SQL

Valid Values

Use System Generated SQL | Override SQL

OverrideSQL

Description

If you do not use the default SQL command to match the treatment code to the contact and response history, enter the SQL or stored procedure here.

This value is ignored if SQL is set to Use System Generated SQL.

Default value

useStoredProcedure

Description

If set to true, the OverrideSQL must contain a reference to a stored procedure which matches the treatment code to the contact and response history.

If set to false, the OverrideSQL, if used, must be an SQL query.

Default value

false

Valid Values

true | false

Type

Description

The associated TrackingCodeType defined in the UACI_TrackingType table in the runtime environment tables. Unless you revise the UACI_TrackingType table, the Type must be 1.

Default value

1

Valid Values

An integer defined in the UACI_TrackingType table.

Interact | services | crossSessionResponse | OverridePerAudience | [AudienceLevel] | TrackingCodes | byOfferCode

The properties in this section define how cross-session response tracking matches offer codes to contact and response history.

SQL

Description

This property defines whether Interact uses the System Generated SQL or custom SQL defined in the OverrideSQL property.

Default value

Use System Generated SQL

Valid Values

Use System Generated SQL | Override SQL

OverrideSQL

Description

If you do not use the default SQL command to match the offer code to the contact and response history, enter the SQL or stored procedure here.

This value is ignored if SQL is set to Use System Generated SQL.

Default value

useStoredProcedure

Description

If set to true, the OverrideSQL must contain a reference to a stored procedure which matches the offer code to the contact and response history.

If set to false, the OverrideSQL, if used, must be an SQL query.

Default value

false

Valid Values

true | false

Type

Description

The associated TrackingCodeType defined in the UACI_TrackingType table in the runtime environment tables. Unless you revise the UACI TrackingType table, the Type must be 2.

Default value

2

Valid Values

An integer defined in the UACI_TrackingType table.

Interact | services | crossSessionResponse | OverridePerAudience | [AudienceLevel] | TrackingCodes | byAlternateCode

The properties in this section define how cross-session response tracking matches a user-defined alternate code to contact and response history.

Name

Description

This property defines the name for the alternate code. This must match the Name value in the UACI_TrackingType table in the runtime environment tables.

Default value

OverrideSQL

Description

The SQL command or stored procedure to match the alternate code to the contact and response history by offer code or treatment code.

Default value

useStoredProcedure

Description

If set to true, the OverrideSQL must contain a reference to a stored procedure which matches the alternate code to the contact and response history.

If set to false, the OverrideSQL, if used, must be an SQL query.

Default value

false

Valid Values

true | false

Type

Description

The associated TrackingCodeType defined in the UACI_TrackingType table in the runtime environment tables.

Default value

3

Valid Values

An integer defined in the UACI_TrackingType table.

Interact | services | threadManagement | contactAndResponseHist

The configuration properties in this category define thread management settings for the services which collect data for the contact and response history staging tables.

corePoolSize

Description

The number of threads to keep in the pool, even if they are idle, for collecting the contact and response history data.

Default value

5

maxPoolSize

Description

The maximum number of threads to keep in the pool for collecting the contact and response history data.

Default value

keepAliveTimeSecs

Description

When the number of threads is greater than the core, this is the maximum time that excess idle threads will wait for new tasks before terminating for collecting the contact and response history data.

Default value

5

queueCapacity

Description

The size of the queue used by the thread pool for collecting the contact and response history data.

Default value

1000

termWaitSecs

Description

At the shutdown of the runtime server, this is the number of seconds to wait for service threads to complete collecting the contact and response history data.

Default value

5

Interact | services | threadManagement | allOtherServices

The configuration properties in this category define the thread management settings for the services which collect the offer eligibility statistics, event activity statistics, default string usage statistics, and the custom log to table data.

corePoolSize

Description

The number of threads to keep in the pool, even if they are idle, for the services which collect the offer eligibility statistics, event activity statistics, default string usage statistics, and the custom log to table data.

Default value

5

maxPoolSize

Description

The maximum number of threads to keep in the pool for the services which collect the offer eligibility statistics, event activity statistics, default string usage statistics, and the custom log to table data.

Default value

keepAliveTimeSecs

Description

When the number of threads is greater than the core, this is the maximum time that excess idle threads wait for new tasks before terminating for the services which collect the offer eligibility statistics, event activity statistics, default string usage statistics, and the custom log to table data.

Default value

5

queueCapacity

Description

The size of the queue used by the thread pool for the services which collect the offer eligibility statistics, event activity statistics, default string usage statistics, and the custom log to table data.

Default value

1000

termWaitSecs

Description

At the shutdown of the runtime server, this is the number of seconds to wait for service threads to complete for the services which collect the offer eligibility statistics, event activity statistics, default string usage statistics, and the custom log to table data.

Default value

5

Interact | services | threadManagement | flushCacheToDB

The configuration properties in this category define the thread management settings for the threads that write collected data in cache to the runtime environment database tables.

corePoolSize

Description

The number of threads to keep in the pool for scheduled threads that write cached data to the data store.

Default value

5

maxPoolSize

Description

The maximum number of threads to keep in the pool for scheduled threads that that write cached data to the data store.

Default value

keepAliveTimeSecs

Description

When the number of threads is greater than the core, this is the maximum time that excess idle threads wait for new tasks before terminating for scheduled threads that that write cached data to the data store.

Default value

5

queueCapacity

Description

The size of the queue used by the thread pool for scheduled threads that that write cached data to the data store.

Default value

1000

termWaitSecs

Description

At the shutdown of the runtime server, this is the number of seconds to wait for service threads to complete for scheduled threads that that write cached data to the data store.

Default value

5

Interact | sessionManagement

This set of configuration properties defines settings for runtime sessions.

cacheType

Description

Defines the type of cache approach for the runtime servers.

Default value

Local

Valid Values

Distributed | Local

maxNumberOfSessions

Description

The maximum number of runtime sessions that the cache holds at any one time. If a request to add a new runtime session occurs when the cache has reached this maximum, the cache removes the oldest inactive runtime session.

Default value

99999999

Valid Values

Integer greater than 0.

multicastIPAddress

Description

If cacheType is Distributed, enter the IP address used by the distributed cache. You must also define multicastPort.

If cacheType is Local, you can leave multicastIPAddress undefined.

Default value

230.0.0.1

Valid Values

Any valid IP address.

multicastPort

Description

If cacheType is Distributed, enter the port number used by the distributed cache. You must also define multicastIPAddress.

If cacheType is Local, you can leave multicastPort undefined.

Default value

6363

Valid Values

1024 - 49151

sessionTimeoutInSecs

Description

The amount of time, in seconds, a session can remain inactive. Once the sessionTimeout number of seconds have passed, Interact ends the session.

Default value

300

Valid Values

Any integer greater than zero.

Interact design environment configuration properties

This section describes all the configuration properties for Interact design environment.

Campaign | partitions | partition[n] | reports

These configuration properties define folders for reports.

offerAnalysisTabCachedFolder

Description

The offerAnalysisTabCachedFolder property specifies the location of the folder that contains the specification for bursted (expanded) offer reports listed on the Analysis tab when you reach it by clicking the Analysis link on the navigation pane. The path is specified using XPath notation.

Default value

/content/folder[@name='Affinium Campaign - Object Specific Reports']/folder[@name='offer']/folder[@name='cached']

segmentAnalysisTabOnDemandFolder

Description

The segmentAnalysisTabOnDemandFolder property specifies the location of the folder that contains the segment reports listed on the Analysis tab of a segment. The path is specified using XPath notation.

Default value

/content/folder[@name='Affinium Campaign - Object Specific Reports']/folder[@name='segment']/folder[@name='cached']

offerAnalysisTabOnDemandFolder

Description

The offerAnalysisTabOnDemandFolder property specifies the location of the folder that contains the offer reports listed on the Analysis tab of an offer. The path is specified using XPath notation.

Default value

/content/folder[@name='Affinium Campaign - Object Specific Reports']/folder[@name='offer']

segmentAnalysisTabCachedFolder

Description

The segmentAnalysisTabCachedFolder property specifies the location of the folder that contains the specification for bursted (expanded) segment reports listed on the Analysis tab when you reach it by clicking the Analysis link on the navigation pane. The path is specified using XPath notation.

Default value

/content/folder[@name='Affinium Campaign - Object Specific Reports']/folder[@name='segment']

analysisSectionFolder

Description

The analysisSectionFolder property specifies the location of the root folder where report specifications are stored. The path is specified using XPath notation.

Default value

/content/folder[@name='Affinium Campaign']

campaignAnalysisTabOnDemandFolder

Description

The campaignAnalysisTabOnDemandFolder property specifies the location of the folder that contains the campaign reports listed on the Analysis tab of a campaign. The path is specified using XPath notation.

Default value

/content/folder[@name='Affinium Campaign - Object Specific
Reports']/folder[@name='campaign']

campaignAnalysisTabCachedFolder

Description

The campaignAnalysisTabCachedFolder property specifies the location of the folder that contains the specification for bursted (expanded) campaign reports listed on the Analysis tab when you reach it by clicking the Analysis link on the navigation pane. The path is specified using XPath notation.

Default value

/content/folder[@name='Affinium Campaign - Object Specific
Reports']/folder[@name='campaign']/folder[@name='cached']

campaignAnalysisTabEmessageOnDemandFolder

Description

The campaignAnalysisTabEmessageOnDemandFolder property specifies the location of the folder that contains the eMessage reports listed on the Analysis tab of a campaign. The path is specified using XPath notation.

Default value

/content/folder[@name='Affinium Campaign']/folder[@name='eMessage
Reports']

campaignAnalysisTabInteractOnDemandFolder

Description

Report server folder string for Interact reports.

Default value

/content/folder[@name='Affinium Campaign']/folder[@name='Interact Reports']

Availability

This property is applicable only if you have installed Interact.

interactiveChannelAnalysisTabOnDemandFolder

Description

Report server folder string for Interactive Channel analysis tab reports

Default value

/content/folder[@name='Affinium Campaign - Object Specific Reports']/folder[@name='interactive channel']

Availability

This property is applicable only if you have installed Interact.

Campaign | partitions | partition[n] | Interact | contactAndResponseHistTracking

These configuration properties define settings for the Interact contact and response history module.

isEnabled

Description

If set to yes, enables the Interact contact and response history module which copies the Interact contact and response history from staging tables in the Interact runtime to the Campaign contact and response history tables. The property interactInstalled must also be set to yes.

Default value

no

Valid Values

ves | no

Availability

This property is applicable only if you have installed Interact.

runOnceADay

Description

Specifies whether to run the Contact and Response History ETL once a day. If you set this property to Yes, the ETL runs during the scheduled interval specified by preferredStartTime and preferredEndTime.

If ETL takes more than 24 hours to execute, and thus misses the start time for the next day, it will skip that day and run at the scheduled time the following day. For example, if ETL is configured to run between 1AM to 3AM, and the process starts at 1AM on Monday and completes at 2AM on Tuesday, the next run, originally scheduled for 1AM on Tuesday, will be skipped, and the next ETL will start at 1AM on Wednesday.

ETL scheduling does not account for Daylight Savings Time changes. For example, if ETL scheduled to run between 1AM and 3AM, it could run at 12AM or 2AM when the DST change occurs.

Default value

No

Availability

This property is applicable only if you have installed Interact.

processSleepIntervalInMinutes

Description

The number of minutes the Interact contact and response history module waits between copying data from the Interact runtime staging tables to the Campaign contact and response history tables.

Default value

Valid Values

Any integer greater than zero.

Availability

This property is applicable only if you have installed Interact.

preferredStartTime

Description

The preferred time to start the daily ETL process. This property, when used in conjunction with the preferredEndTime property, sets up the preferred time interval during which you want the ETL to run. The ETL will start during the specified time interval and will process at most the number of records specified using maxJDBCFetchBatchSize. The format is HH:mm:ss AM or PM, using a 12-hour clock.

Default value

12:00:00 AM

Availability

This property is applicable only if you have installed Interact.

preferredEndTime

Description

The preferred time to complete the daily ETL process. This property, when used in conjunction with the preferredStartTime property, sets up the preferred time interval during which you want the ETL to run. The ETL will start during the specified time interval and will process at most the number of records specified using maxJDBCFetchBatchSize. The format is HH:mm:ss AM or PM, using a 12-hour clock.

Default value

2:00:00 AM

Availability

This property is applicable only if you have installed Interact.

purgeOrphanResponseThresholdInMinutes

Description

The number of minutes the Interact contact and response history module waits before purging responses with no corresponding contact. This prevents logging responses without logging contacts.

Default value

180

Valid Values

Any integer greater than zero.

Availability

This property is applicable only if you have installed Interact.

maxJDBCInsertBatchSize

Description

The maximum number of records of a JDBC batch before committing the query. This is not the max number of records that the Interact contact and response history module processes in one iteration. During each iteration, the Interact contact and response history module processes all available records from the staging tables. However, all those records are broken into maxJDBCInsertSize chunks.

Default value

1000

Valid Values

Any integer greater than zero.

Availability

This property is applicable only if you have installed Interact.

maxJDBCFetchBatchSize

Description

The maximum number of records of a JDBC batch to fetch from the staging database. You may need to increase this value to tune the performance of the contact and response history module.

For example, to process 2.5 million contact history records a day, you should set maxJDBCFetchBatchSize to a number greater than 2.5M so that all records for one day will be processed.

You could then set maxJDBCFetchChunkSize and maxJDBCInsertBatchSize to smaller values (in this example, perhaps to 50,000 and 10,000, respectively). Some records from the next day may be processed as well, but would then be retained until the next day.

Default value

1000

Valid Values

Any integer greater than zero

maxJDBCFetchChunkSize

Description

The maximum number of a JDBC chunk size of data read during ETL (extract, transform, load). In some cases, a chunk size greater than insert size can improve the speed of the ETL process.

Default value

1000

Valid Values

Any integer greater than zero

deleteProcessedRecords

Description

Specifies whether to retain contact history and response history records after they have been processed.

Default value

Yes

completionNotificationScript

Description

Specifies the absolute path to a script to run when the ETL is completed. If you specify a script, four arguments are passed to the completion notification script: start time, end time, total number of CH records processed, and total number of RH records processed. The start time and end time are numeric values representing number of milliseconds elapsed since 1970.

Default value

None

fetchSize

Description

Allow you to set the JDBC fetchSize when retrieving records from staging tables.

On Oracle databases especially, adjust the setting to the number of records that the JDBC should retrieve with each network round trip. For large batches of 100K or more, try 10000. Be careful not to use too large a value here, because that will have an impact on memory usage and the gains will become negligible, if not detrimental.

Default value

None

Campaign | partitions | partition[n] | Interact | contactAndResponseHistTracking | runtimeDataSources | [runtimeDataSource]

These configuration properties define the data source for the Interact contact and response history module.

indiName

Description

Use the systemTablesDataSource property to identify the Java Naming and Directory Interface (JNDI) data source that is defined in the application server (Websphere or WebLogic) for the Interact runtime tables.

The Interact runtime database is the database populated with the aci_runtime and aci_populate_runtime dll scripts and, for example, contains the following tables (among others): UACI_CHOfferAttrib and UACI DefaultedStat.

Default value

No default value defined.

Availability

This property is applicable only if you have installed Interact.

databaseType

Description

Database type for the Interact runtime data source.

Default value

SQLServer

Valid Values

SQLServer | Oracle | DB2

Availability

This property is applicable only if you have installed Interact.

schemaName

Description

The name of the schema containing the contact and response history module staging tables. This should be the same as the runtime environment tables.

You do not have to define a schema.

Default value

No default value defined.

Campaign | partitions | partition[n] | Interact | contactAndResponseHistTracking | contactTypeMappings

These configuration properties define the contact type from campaign that maps to a 'contact' for reporting or learning purposes.

contacted

Description

The value assigned to the ContactStatusID column of the UA_DtlContactHist table in the Campaign system tables for an offer contact. The value must be a valid entry in the UA_ContactStatus table. See the Campaign Administrator's Guide for details on adding contact types.

Default value

2

Valid Values

An integer greater than zero.

Availability

This property is applicable only if you have installed Interact.

Campaign | partitions | partition[n] | Interact | contactAndResponseHistTracking | responseTypeMappings

These configuration properties define the responses for accept or reject for reporting and learning.

accept

Description

The value assigned to the ResponseTypeID column of the UA_ResponseHistory table in the Campaign system tables for an accepted offer. The value must be a valid entry in the UA_UsrResponseType table. You should assign the CountsAsResponse column the value 1, a response.

See the Campaign Administrator's Guide for details on adding response types.

Default value

3

Valid Values

An integer greater than zero.

Availability

This property is applicable only if you have installed Interact.

reject

Description

The value assigned to the ResponseTypeID column of the UA_ResponseHistory table in the Campaign system tables for a rejected offer. The value must be a valid entry in the UA_UsrResponseType table. You should assign the CountsAsResponse column the value 2, a reject. See the Campaign Administrator's Guide for details on adding response types.

Default value

8

Valid Values

Any integer greater than zero.

Availability

This property is applicable only if you have installed Interact.

Campaign | partitions | partition[n] | Interact | report

These configuration properties define the report names when integrating with Cognos.

interactiveCellPerformanceByOfferReportName

Description

Name for Interactive Cell Performance by Offer report. This name must match the name of this report on the Cognos server.

Default value

Interactive Cell Performance by Offer

treatmentRuleInventoryReportName

Description

Name for Treatment Rule Inventory report. This name must match the name of this report on the Cognos server.

Default value

Channel Treatment Rule Inventory

deploymentHistoryReportName

Description

Name for Deployment History Report report. This name must match the name of this report on the Cognos server

Default value

Channel Deployment History

Campaign | partitions | partition[n] | Interact | learning

These configuration properties enable you to tune the built-in learning module.

confidenceLevel

Description

A percentage indicating how confident you want the learning utility to be before switching from exploration to exploitation. A value of 0 effectively shuts off exploration.

This property is applicable if the Interact > offerserving > optimizationType property for Interact runtime is set to BuiltInLearning only.

Default value

95

Valid Values

An integer between 0 and 95 divisible by 5 or 99.

enableLearning

Description

If set to Yes, the Interact design time expects learning to be enabled. If you set enableLearning to yes, you must configure Interact > offerserving > optimizationType to BuiltInLearning or ExternalLearning.

If set to No, the Interact design time expects learning to be disabled. If you set enableLearning to no, you must configure Interact > offerserving > optimizationType to NoLearning.

Default value

No

maxAttributeNames

Description

The maximum number of learning attributes the Interact learning utility monitors.

This property is applicable if the Interact > offerserving > optimizationType property for Interact runtime is set to BuiltInLearning only.

Default value

10

Valid Values

Any integer.

maxAttributeValues

Description

The maximum number of values the Interact learning module tracks for each learning attribute.

This property is applicable if the Interact > offerserving > optimizationType property for Interact runtime is set to BuiltInLearning only.

Default value

5

otherAttributeValue

Description

The default name for the attribute value used to represent all attribute values beyond the maxAttributeValues.

This property is applicable if the Interact > offerserving > optimizationType property for Interact runtime is set to BuiltInLearning only.

Default value

Other

Valid Values

A string or number.

Example

If maxAttributeValues is set to 3 and otherAttributeValue is set to other, the learning module tracks the first three values. All of the other values are assigned to the other category. For example, if you are tracking the visitor attribute hair color, and the first five visitors have the hair colors black, brown, blond, red, and gray, the learning utility tracks the hair colors black, brown, and blond. The colors red and gray are grouped under the otherAttributeValue, other.

percentRandomSelection

Description

The percent of the time the learning module presents a random offer. For example, setting percentRandomSelection to 5 means that 5% of the time (5 out of every 100 recommendations), the learning module presents a random offer.

Default value

5

Valid Values

Any integer from 0 to 100.

recencyWeightingFactor

Description

The decimal representation of a percentage of the set of data defined by the recencyWeightingPeriod. For example, the default value of .15 means that 15% of the data used by the learning utility comes from the recencyWeightingPeriod.

This property is applicable if the Interact > offerserving > optimizationType property for Interact runtime is set to BuiltInLearning only.

Default value

0.15

Valid Values

A decimal value less than 1.

recencyWeightingPeriod

Description

The size in hours of data granted the recencyWeightingFactor percentage of weight by the learning module. For example, the default value of 120 means that the recencyWeightingFactor of the data used by the learning module comes from the last 120 hours.

This property is applicable only if optimizationType is set to builtInLearning.

Default value

120

minPresentCountThreshold

Description

The minimum number of times an offer must be presented before its data is used in calculations and the learning module enters the exploration mode.

Default value

0

Valid Values

An integer greater than or equal to zero.

enablePruning

Description

If set to Yes, the Interact learning module algorithmically determines when a learning attribute (standard or dynamic) is not predictive. If a learning attribute is not predictive, the learning module will not consider that attribute when determining the weight for an offer. This continues until the learning module aggregates learning data.

If set to No, the learning module always uses all learning attributes. By not pruning non-predictive attributes, the learning module may not be as accurate as it could be.

Default value

Yes

Valid Values

Yes | No

Campaign | partitions | partition[n] | Interact | learning | learningAttributes | [learningAttribute]

These configuration properties define the learning attributes.

attributeName

Description

Each attributeName is the name of a visitor attribute you want the learning module to monitor. This must match the name of a name-value pair in your session data.

This property is applicable if the Interact > offerserving > optimizationType property for Interact runtime is set to BuiltInLearning only.

Default value

No default value defined.

Campaign | partitions | partition[n] | Interact | deployment

These configuration properties define deployment settings.

chunkSize

Description

The maximum size of fragmentation in KB for each Interact deployment package.

Default value

500

Availability

This property is applicable only if you have installed Interact.

Campaign | partitions | partition[n] | Interact | serverGroups | [serverGroup]

These configuration properties define server group settings.

serverGroupName

Description

The name of the Interact runtime server group. This is the name that appears on the interactive channel summary tab.

Default value

No default value defined.

Availability

This property is applicable only if you have installed Interact.

Campaign | partitions | partition[n] | Interact | serverGroups | [serverGroup] | instanceURLs | [instanceURL]

These configuration properties define the Interact runtime servers.

instanceURL

Description

The URL of the Interact runtime server. A server group can contain several Interact runtime servers; however, each server must be created under a new category.

Default value

No default value defined.

Example

http://server:port/interact

Availability

This property is applicable only if you have installed Interact.

Campaign | partitions | partition[n] | Interact | flowchart

These configuration properties define the Interact runtime environment used for test runs of interactive flowcharts.

serverGroup

Description

The name of the Interact server group Campaign uses to execute a test run. This name must match the category name you create under serverGroups.

Default value

No default value defined.

Availability

This property is applicable only if you have installed Interact.

dataSource

Description

Use the dataSource property to identify the physical data source for Campaign to use when performing test runs of interactive flowcharts. This property should match the data source defined by the Campaign > partitions > partitionN > dataSources property for the test run data source defined for Interact design time.

Default value

No default value defined.

Availability

This property is applicable only if you have installed Interact.

Campaign | partitions | partition[n] | Interact | whiteList | [AudienceLevel] | DefaultOffers

These configuration properties define the default cell code for the default offers table. You need to configure these properties only if you are defining global offer assignments.

DefaultCellCode

Description

The default cell code Interact uses if you do not define a cell code in the default offers table.

Default value

No default value defined.

Valid Values

A string that matches the cell code format defined in Campaign

Availability

This property is applicable only if you have installed Interact.

Campaign | partitions | partition[n] | Interact | whiteList | [AudienceLevel] | ScoreOverride

These configuration properties define the default cell code for the score override table. You need to configure these properties only if you are defining individual offer assignments.

DefaultCellCode

Description

The default cell code Interact uses if you do not define a cell code in the score override table.

Default value

No default value defined.

Valid Values

A string that matches the cell code format defined in Campaign

Availability

This property is applicable only if you have installed Interact.

Campaign | partitions | partition[n] | server | internal

Properties in this category specify integration settings and the internalID limits for the selected Campaign partition. If your Campaign installation has multiple partitions, set these properties for each partition that you want to affect.

internalldLowerLimit

Description

The internal IdUpperLimit and internal IdLowerLimit properties constrain the Campaign internal IDs to be within the specified range. Note that the values are inclusive: that is, Campaign may use both the lower and upper limit.

Default value

0 (zero)

internalIdUpperLimit

Description

The internal IdUpperLimit and internal IdLowerLimit properties constrain the Campaign internal IDs to be within the specified range. Note that the values are inclusive: that is, Campaign may use both the lower and upper limit.

Default value

4294967295

eMessageInstalled

Description

Indicates that eMessage is installed. When you select yes, eMessage features are available in the Campaign interface.

The IBM installer sets this property to yes for the default partition in your eMessage installation. For additional partitions where you have installed eMessage, you must configure this property manually.

Default value

no

Valid Values

ves | no

interactInstalled

Description

After installing the Interact design environment, this configuration property should be set to yes to enable the Interact design environment in Campaign.

If you do not have Interact installed, set to no. Setting this property to no does not remove Interact menus and options from the user interface. To remove menus and options, you must manually unregister Interact using the configTool utility.

Default value

no

Valid Values

yes | no

Availability

This property is applicable only if you have installed Interact.

MO_UC_integration

Description

Enables integration with Marketing Operations for this partition. If you plan to set any of the following three options to Yes, you must set **MO_UC_integration** to Yes. For more information about configuring this integration, see the *IBM Unica Marketing Operations and Campaign Integration Guide*.

Default value

no

Valid Values

yes | no

MO_UC_BottomUpTargetCells

Description

Allows bottom-up cells for Target Cell Spreadsheets on this partition. When set to Yes, both top-down and bottom-up target cells are visible, but bottom-up target cells are read only. Note that **MO_UC_integration** must be enabled. For more information about configuring this integration, see the *IBM Unica Marketing Operations and Campaign Integration Guide*.

Default value

no

Valid Values

yes | no

Legacy_campaigns

Description

When the MO_UC_integration property is set to Yes, the Legacy_campaigns property enables access to campaigns created before enabling integration, including campaigns created in Campaign 7.x and linked to Plan 7.x projects. For more information about configuring this integration, see the IBM Unica Marketing Operations and Campaign Integration Guide.

Default value

no

Valid Values

yes | no

IBM Unica Marketing Operations - Offer integration

Description

Enables the ability to use Marketing Operations to perform offer lifecycle management tasks on this partition. (MO_UC_integration must be enabled. Also, Campaign integration must be enabled in Settings > Configuration > Unica > Platform.) For more information about configuring this integration, see the IBM Unica Marketing Operations and Campaign Integration Guide.

Default value

no

Valid Values

yes | no

UC_CM_integration

Description

Enables IBM Coremetrics online segment integration for a Campaign partition. If you set this option to yes, the Select process box in a flowchart will provide the option to select **IBM Coremetrics Segments** as input. To configure the integration for each partition, choose **Settings** > **Configuration** > **Campaign** | **partitions** | **partition[n]** | **Coremetrics**.

Default value

no

Valid Values

yes | no

Campaign | monitoring

Properties in the this category specify whether the Operational Monitoring feature is enabled, the URL of the Operational Monitoring server, and caching behavior. Operational Monitoring displays and allows you to control active flowcharts.

cacheCleanupInterval

Description

The cacheCleanupInterval property specifies the interval, in seconds, between automatic cleanups of the flowchart status cache.

This property is not available in versions of Campaign earlier than 7.0.

Default value

600 (10 minutes)

cacheRunCompleteTime

Description

The cacheRunCompleteTime property specifies the amount of time, in minutes, that completed runs are cached and display on the Monitoring page.

This property is not available in versions of Campaign earlier than 7.0.

Default value

4320

monitorEnabled

Description

The monitorEnabled property specifies whether the monitor is turned on.

This property is not available in versions of Campaign earlier than 7.0.

Default value

serverURL

Description

The Campaign > monitoring > serverURL property specifies the URL of the Operational Monitoring server. This is a mandatory setting; modify the value if the Operational Monitoring server URL is not the default.

If Campaign is configured to use Secure Sockets Layer (SSL) communications, set the value of this property to use HTTPS. For example: serverURL=https://host:SSL port/Campaign/OperationMonitor where:

- *host* is the name or IP address of the machine on which the web application is installed
- *SSL_Port* is the SSL port of the web application.

Note the https in the URL.

Default value

http://localhost:7001/Campaign/OperationMonitor

monitorEnabledForInteract

Description

If set to yes, enables Campaign JMX connector server for Interact. Campaign has no JMX security.

If set to no, you cannot connect to the Campaign JMX connector server.

This JMX monitoring is for the Interact contact and response history module only.

Default value

False

Valid Values

True | False

Availability

This property is applicable only if you have installed Interact.

protocol

Description

Listening protocol for the Campaign JMX connector server, if monitorEnabledForInteract is set to yes.

This JMX monitoring is for the Interact contact and response history module only.

Default value

JMXMP

Valid Values

JMXMP ∣ RMI

Availability

This property is applicable only if you have installed Interact.

port

Description

Listening port for the Campaign JMX connector server, if monitorEnabledForInteract is set to yes.

This JMX monitoring is for the Interact contact and response history module only.

Default value

2004

Valid Values

An integer between 1025 and 65535.

Availability

This property is applicable only if you have installed Interact.

Optimize configuration properties

This section describes the IBM Unica Optimize configuration properties found on the Configuration page.

Campaign | unicaACOListener

These configuration properties are for Optimize listener settings.

serverHost

Description

Set to the host server name for the Optimize installation.

Default value

localhost

serverPort

Description

Set to the host server port for the Optimize installation.

Default value

none

useSSL

Description

Set to True to connect to the Marketing Platform server using SSL. Otherwise, set to False.

Default value

False

Valid Values

True | False

keepalive

Description

The number of seconds the Campaign web application waits between sending messages to the ACOListener to keep the connection active. Using keepalive keeps connections open if your network is configured to close inactive connections.

If set to 0, the web application does not send any messages.

This keepalive property is separate from the Java socket keepAlive.

Default value

0

Valid Values

Positive integer

logProcessId

Description

Set to yes to log the ID of the Optimize listener process in the Optimize Listener log (Optimize_installation_directory/logs/unica_acolsnr.log). Otherwise set to no.

Default value

yes

Valid Values

yes | no

loggingLevels

Description

You can set the details for the Optimize listener data you log.

This setting affects the <code>Optimize_installation_directory/logs/unica_acolsnr.log</code> file.

Default value

MEDIUM

Valid Values

LOW | MEDIUM | HIGH | ALL

logMaxFileSize

Description

Set this integer to the maximum size for a log file, in bytes. Optimize creates a file after the log file reaches this size. This setting effects <code>Optimize_installation_directory/logs/unica_acolsnr.log</code>.

Default value

20485760

enableLogging

Description

Set to True to enable logging. Otherwise set to False. This setting effects *Optimize installation directory*/logs/unica acolsnr.log.

Default value

True

Valid Values

True | False

logMaxBackupIndex

Description

Set this integer to the number of backup files to store. This setting effects <code>Optimize_installation_directory/logs/unica_acolsnr.log</code>.

Default value

5

loggingCategories

Description

You can specify the categories of data you want to log in a comma-separated list. This setting affects *Optimize installation directory*/logs/unica acolsnr.log.

Default value

a11

Valid Values

```
all | bad_order | cell_access | commands | config | data_errors |
dbload | file_access | general | memory | procrun | query | sort |
sysquery | table_access | table_io | table_mapping | webproc
```

defaultFilePermissions (UNIX only)

Description

The permission level for the generated log files in the numeric format. For example, 777 for read, write, and execute permissions.

Default value

660 (Owner and Group have read and write access only)

Campaign | partitions | partition[n] | Optimize | sessionRunMonitor

These configuration properties are for sessionRunMonitor settings.

progressFetchDelay

Description

Set this integer to the number of milliseconds that the web application waits before obtaining progress information from the listener.

Default value

Campaign | partitions | partition[n] | Optimize | MemoryTuning

These configuration properties are for the MemoryTuning settings.

MaxRamUsage

Description

Defines the maximum memory in MB used to cache the contact history. This value must be at least as large as one contact history record.

Default value

128

Campaign | partitions | partition[n] | Optimize | userTemplateTables

This property defines the template tables used by the PCT and OCT.

tablenames

Description

Enter a comma-separated list of table names for the Optimize template tables. These template tables can be used to add user-specific fields to the proposed contacts table (PCT) or the optimized contacts table (OCT).

Default value

UACO_UserTable

Campaign | partitions | partition[n] | Optimize | AlgorithmTuning

These configuration properties define settings you can use to tune your optimizations.

MaxAlternativesPerCustomerEvaluated

Description

The maximum number of times Optimize tests combinations of proposed transactions, or alternatives, to find the optimal alternative for a customer.

For example, if the following are true:

- The offers associated with a customer in the proposed contacts table (PCT) are A,B,C,D, where the scores for these offers are A=8, B=4, C=2, D=1
- The MaxAlternativesPerCustomerEvaluated property is 5
- a rule of MAX # Offers=3 exists

Then the alternatives tried might be as follows:

- ABC score = 14
- ABD score = 13
- AB score = 12
- ACD score = 11
- AC score = 10

Since the number of alternatives to test might be large, this value allows you to place a limit on how much effort the core algorithm spends on a customer before Optimize moves to the next customer in the PCT.

Default value

1000

CustomerSampleSize

Description

If your number of customers being optimized is greater than CustomerSampleSize, Optimize divides the customers into groups of no greater than CustomerSampleSize and optimizes each sample group separately. Rules which span across groups, such as a Custom Capacity rule, are still met. Increasing this number might increase optimality but hinder performance.

The most optimal CustomerSampleSize is equal to your number of customers. However, processing a large set of data might take a prohibitive amount of time. By dividing customers into smaller groups for Optimize to process at a time, you can increase performance with minimal loss to optimality.

Default value

1000

Valid Values

Positive integer

CustomerRandomSeed

Description

The random seed represents the starting point that Optimize uses to select records randomly before populating sample groups defined by the CustomerSampleSize. If you have fewer customers than CustomerSampleSize, this property has no effect on the optimization.

You might want to change the random seed if you think your current random sample produces highly skewed results.

Default value

1928374656

Valid Values

Positive integer

MaxIterationsPerCustomerSample

Description

The maximum number of iterations Optimize processes a group of customers. Optimize processes a group of customers until optimality is reached or the number of iterations equals

MaxIterationsPerCustomerSample.

Search for the following information in the session log to observe the effect of setting changes for MaxIterationsPerCustomerSample.

- Maximum, minimum, and mean number of iterations per customer chunk
- Maximum, minimum, and mean number of alternatives created per customer
- Maximum, minimum, and mean number of alternatives tried per customer
- · Standard deviation of iterations

Default value

1000

Valid Values

Positive integer

MaxCustomerSampleProcessingThreads

Description

The maximum number of threads Optimize uses to process the optimization algorithms. In general, the higher you set MaxCustomerSampleProcessingThreads, the more you might improve performance. However, the performance increase is limited by several factors including the type and number of optimization rules you use and your hardware. For detailed instructions on tuning your Optimize implementation, contact your IBM Unica representative.

Default value

1

Valid Values

Positive integer

ProcessingThreadQueueSize

Description

The number of threads available to Optimize to use when reading a customer sample from the PCT. Increasing the number of threads might improve the performance of an Optimize session. For detailed instructions on tuning your Optimize implementation, contact your IBM Unica representative.

Default value

1

Valid Values

Positive integer

PostProcessingThreadQueueSize

Description

The number of threads available to Optimize to use when writing a customer sample to a staging table for the OCT. Increasing the number of threads might improve the performance of an Optimize session. For detailed instructions on tuning your Optimize implementation, contact your IBM Unica representative.

Default value

1

Valid Values

Positive integer

EnableMultithreading

Description

If true, Optimize attempts to use multiple threads when processing the optimization algorithms. You can configure the number of threads with the MaxCustomerSampleProcessingThreads, ProcessingThreadQueueSize, and PostProcessingThreadQueueSize configuration properties. If false, Optimize uses a single thread when processing the optimization algorithms.

Default value

true

Valid Values

true | false

EnableBufferingHistoryTransactions

Description

If true, Optimize writes contact history transactions to a file to read during an Optimize session run. If false, Optimize reads from the UA_ContactHistory table in the Campaign system tables.

If false, Optimize creates a read lock on the UA_ContactHistory table for the length of the Optimize session. This lock might cause attempts to write to the table to fail if you are using a database load utility. If true, Optimize creates a read lock on the table only for the time it takes to write the query to a file.

Default value

false

Valid Values

true | false

MinImprovementPercent

Description

This configuration property allows you to stop processing a group of customers when the rate of optimization reaches a specified level. The MinImprovmentPercent property allows you to set a rate of score improvement, measured as a percentage, to continue iterating. The default is zero, which means that there is no limit to the number of iterations possible.

Default value

0.0

UseFutureContacts

Description

If you are not using time periods in any of your optimization rules, you can prevent Optimize from querying the Contact History tables to improve performance. You can control this behavior using the UseFutureContacts configuration property.

If you set UseFutureContacts to false, and the optimization rules for your Optimize session do not use time periods, Optimize does not query the Contact History tables. This setting improves the time needed to run the Optimize session. However, if the Optimize session uses time periods, Contact History tables are queried.

If you record potential future contacts in Contact History, you must set UseFutureContacts to true. For example, if you know that you are sending an email communication next week regarding a special promotion to certain customers, those contacts might already be in the Contact History tables as placeholders. In this case, set UseFutureContacts to true and Optimize always queries the Contact History tables.

Default value

False

Valid Values

True | False

Campaign | partitions | partition[n] | Optimize | Debug

This property defines debug level for processing the PCT.

ExtraVerbose

Description

Set this value to yes to provide detailed logs on the rows processed in the proposed contacts table. By default, all rows are logged if you set this value to yes.

If you do not want processed rows of the proposed contacts table to be logged, set this value to no.

Default value

nο

Valid Values

yes no

Campaign | partitions | partition[n] | Optimize | logging

This property defines logging settings for Optimize.

enableBailoutLogging

Description

If set to True, when Optimize exceeds the limit set by MaxAlternativesPerCustomerEvaluated, and no legal alternatives are found for a customer, Optimize generates a log for that customer (in addition to the usual log counting those customers who exceeded the limit).

If set to True, you also get a separate file containing details of customers Optimize could not process in a comma-separated values (CSV) file. Each row corresponds to one customer. The first column is the customer ID and

the second column is the reason why Optimize was not able to process the customer. The file is named unprocessables_sessionID.csv and is located in the OptimizeInstallationDirectory/partitions/partition[n]/logs directory.

Default value

False

Valid Values

True | False

logProcessId

Description

Set to True to log the ID of the Optimize server process in the Optimize Server log (Optimize_installation_directory/partitions/partition[n]/logs/unica acosvr SESSIONID.log). Otherwise set to False.

Default value

False

Valid Values

True | False

loggingLevels

Description

You can set the details for the server data you log.

This setting affects the Optimize Server log (Optimize_installation_directory/partitions/partition[n]/logs/unica_acosvr_SESSIONID.log).

Default value

MEDIUM

Valid Values

LOW | MEDIUM | HIGH | ALL

logMaxFileSize

Description

Set this integer in bytes to the maximum size for a log file. Optimize creates a file after the log file reaches this size. This setting affects the Optimize Server log (Optimize_installation_directory/partitions/partition[n]/logs/unica_acosvr_SESSIONID.log).

Default value

10485760

enableLogging

Description

Set to True to enable logging. Otherwise set to False. This setting affects the Optimize Server log (Optimize_installation_directory/partitions/partition[n]/logs/unica_acosvr_SESSIONID.log).

Default value

True

Valid Values

True | False

logMaxBackupIndex

Description

Set this integer to the number of backup files to store. This effects the Optimize Server log (Optimize_installation_directory/partitions/partition[n]/logs/unica_acosvr_SESSIONID.log).

Default value

5

loggingCategories

Description

You can specify the categories of data you want to log in a comma-separated list. This setting affects the Optimize Server log (Optimize_installation_directory/partitions/partition[n]/logs/unica_acosvr_SESSIONID.log).

Default value

a11

Valid Values

```
all | bad_order | cell_access | commands | config | data_errors |
dbload | file_access | general | memory | procrun | query | sort |
sysquery | table_access | table_io | table_mapping | webproc
```

defaultFilePermissions (UNIX only)

Description

The permission level for the generated log files in the numeric format. For example, 777 for read, write, and execute permissions.

Default value

660 (Owner and Group have read and write access only)

Campaign | unicaACOOptAdmin

These configuration properties define settings for the unicaACOOptAdmin tool.

getProgressCmd

Description

Specifies a value that is used internally. Do not change this value.

Default value

optimize/ext_optimizeSessionProgress.do

Valid Values

 $optimize/ext_optimizeSessionProgress.do$

runSessionCmd

Description

Specifies a value that is used internally. Do not change this value.

Default value

optimize/ext_runOptimizeSession.do

Valid Values

optimize/ext_runOptimizeSession.do

loggingLevels

Description

The loggingLevels property controls the amount of detail written to the log file for the Optimize command-line tool, based on severity. Available levels are LOW, MEDIUM, HIGH, and ALL, with LOW providing the least detail (that is, only the most severe messages are written). The ALL level includes trace messages and is intended primarily for diagnostic purposes.

Default value

HIGH

Valid Values

LOW | MEDIUM | HIGH | ALL

cancelSessionCmd

Description

Specifies a value that is used internally. Do not change this value.

Default value

optimize/ext_stopOptimizeSessionRun.do

Valid Values

optimize/ext_stopOptimizeSessionRun.do

logoutCmd

Description

Specifies a value that is used internally. Do not change this value.

Default value

optimize/ext_doLogout.do

Valid Values

optimize/ext doLogout.do

getProgressWaitMS

Description

Set this value to the number (integer) of milliseconds between two successive polls to the web application to get progress information. This value is not used if you do not set getProgressCmd.

Default value

1000

Valid Values

An integer greater than zero

Distributed Marketing configuration properties

This section describes the Distributed Marketing configuration properties on the configuration page. Additional configuration properties exist in XML files located under the Distributed Marketing installation directory.

Navigation

welcomePageURI

Description

The Uniform Resource Identifier of the Distributed Marketing index page. You should not change this value.

Default Value

affiniumcollaborate.jsp?cat=home

projectDetailpageURI

Description

The Uniform Resource Identifier of the Distributed Marketing detail page. You should not change this value.

Default Value

uapprojectservlet?cat=projectabs&projecttype=CORPORATE&projectid=

seedName

Description

Used internally by the Marketing Operations applications. You should not change this value.

Default Value

Collaborate

type

Description

Used internally by the Marketing Operations applications. You should not change this value.

Default Value

Collaborate

httpPort

Description

The port number used by the application server for connections to the Distributed Marketing application.

Default Value

7001

httpsPort

Description

The port number used by the application server for secure connections to the Distributed Marketing application.

Default Value

7001

serverURL

Description

The URL of the Distributed Marketing installation.

Default Value

http://localhost:7001/collaborate

displayName

Description

Used internally.

Default Value

Distributed Marketing

timeout_redirection

Description

Timeout URL displays. The Distributed Marketing logout page is displayed if empty.

Default Value

No default value is defined.

Configuration Settings

serverType

Description

The type of web application server you are using. The valid values are WEBLOGIC or WEBSPHERE.

Default value

userManagerSyncTime

Description

Time in Milliseconds to sync with Marketing Platform. The default value is equivalent to 3 hours.

Default value

10800000

firstMonthInFiscalYear

Description

The first month in the fiscal year. The default is 0 for January.

Default value

0

systemUserLoginName

Description

The login name of a Marketing Platform user to be used for system tasks (for example, the system task monitor or the scheduler). IBM strongly recommends that the system user is not a normal Distributed Marketing user.

Default value

[CHANGE-ME]

searchModifiedTasksForSummaryFrequencyInSeconds

Description

How often, in seconds, to search for changes in task executions in order to refresh the Summary tab.

Default value

10

collaborateFlowchartStatusPeriod

Description

The period in milliseconds between two flowchart status checks.

Default value

100000

collaborateFlowchartStatusPeriodRunning

Description

The period in milliseconds between two flowchart status checks when the flowchart is running.

Default value

2000

enableEditProjectCode

Description

If set to true, you can edit the List Code when on the Summary page of the New List wizard. If set to false, you cannot edit the List Code.

Default value

TRUE

Valid value

TRUE | FALSE

minimumDelayForExecutionMonitoring

Description

Optional. Defines the minimum delay, in seconds, for an execution before it appears on the Flowcharts Run Monitoring page.

Default value

10800

validateAllWizardSteps

Description

Determines whether Distributed Marketing checks required fields on non-visited wizard steps. Use this parameter to change behavior that occurs after you click Finish in the project wizard:

- true: Distributed Marketing checks all required fields on all non-visited wizard steps (except workflow, tracking, attachments) when creating a project using the wizard. If there are any required fields that are blank, the wizard jumps to that page and displays an error message.
- false: Distributed Marketing does not check required fields on non-visited wizard steps.

Note: Distributed Marketing automatically checks the current page for blank requirement fields. This parameter controls whether Distributed Marketing checks all pages for blank required fields after you click Finish.

Default value

TRUF

Valid value

TRUE | FALSE

Attachments collaborateModeForAttachments

Description

Distributed Marketing can get the attachments generated by flowchart execution from the Campaign server through the following modes:

- Directory (the default)
- HTTP
- FTP
- TFTP
- SFTP

Default value

true

Valid value

TRUE | FALSE

collaborateAttachmentsDIRECTORY_directory

Description

Indicates the address in the Campaign server where Distributed Marketing takes the attachments if the mode is set to Directory, the default.

Default value

\Affinium\Campaign\partitions\partition1

collaborateAttachmentsDIRECTORY_deletefile

Description

The value true indicates that the original files will be deleted after copy. The default is false if the mode is set to Directory.

Default value

false

Valid value

TRUE | FALSE

collaborateAttachmentsFTP_server

Description

Indicates the server where Distributed Marketing takes the attachments if the mode is set to FTP.

Default value

No default value defined.

collaborateAttachmentsFTP_username

Description

Optional. Indicates the username to login on FTP server where Distributed Marketing takes the attachments if the parameter collaborateModeForAttachments is FTP.

Default value

No default value defined.

collaborateAttachmentsFTP_password

Description

Optional. Indicates the password to login on FTP server where Distributed Marketing takes the attachments if the parameter collaborateModeForAttachments is FTP.

Default value

No default value defined.

collaborateAttachmentsFTP_account

Description

Optional. Indicates the account to login on FTP server where Distributed Marketing takes the attachments if the parameter collaborateModeForAttachments is FTP.

Default value

No default value defined.

collaborateAttachmentsFTP_directory

Description

Optional. Indicates the directory on the FTP server from where Distributed Marketing takes the attachments if the parameter

collaborateModeForAttachments is FTP. Accepts the relative path of the directory with respect to FTP default directory from where Distributed Marketing can get the attachments for the Windows operating system.

Default value

No default value defined.

collaborateAttachmentsFTP_transfertype

Description

Optional. Indicates the file transfer type on FTP server used by Distributed Marketing to get the attachments if the parameter collaborateModeForAttachments is FTP. The value can be ASCII or BINARY. The default is ASCII.

Default value

No default value defined.

collaborateAttachmentsFTP_deletefile

Description

Optional. The value true indicates that the original files will be deleted after copy. The default is false if the parameter collaborateModeForAttachments is HTTP.

Default value

No default value defined.

collaborateAttachmentsHTTP_url

Description

Indicates the HTTP URL where Distributed Marketing takes the attachments if the parameter collaborateModeForAttachments is HTTP.

Default value

No default value defined.

collaborateAttachmentsHTTP_deletefile

Description

Optional. The value true indicates that the original files will be deleted after copy. The default is false if the parameter collaborateModeForAttachments is HTTP.

Default value

No default value defined.

collaborateAttachmentsTFTP_server

Description

Indicates the server where Distributed Marketing takes the attachments if the parameter collaborateModeForAttachments is TFTP.

Default value

No default value defined.

collaborateAttachmentsTFTP_port

Description

Optional. Indicates the port where Distributed Marketing takes the attachments if the parameter collaborateModeForAttachments is TFTP.

Default value

69

collaborateAttachmentsTFTP_transfertype

Description

Optional. Indicates the file transfer type on the server used by Distributed Marketing to get the attachments if the parameter collaborateModeForAttachments is TFTP. The valid values are ASCII or BINARY. The default is ASCII.

Default value

No default value defined.

collaborateAttachmentsSFTP server

Description

SFTP server name (or IP).

Default value

No default value defined.

collaborateAttachmentsSFTP_port

Description

Optional. FTP server port.

Default value

22

collaborateAttachmentsSFTP_username

Description

Username to login to SFTP server.

Default value

No default value defined.

collaborateAttachmentsSFTP_password

Description

Optional. The SFTP password to login to the SFTP server. It is used if it is needed by the server, and if usepassword=true.

Default value

No default value defined.

collaborateAttachmentsSFTP_usekey

Description

Optional. Use private key file for authenticate user.

Default value

false

Valid values

TRUE | FALSE

collaborateAttachmentsSFTP_keyfile

Description

Optional. SFTP key file name (used if it is needed by the server, and if usekey=true) to login on SFTP server.

Default value

No default value defined.

collaborateAttachmentsSFTP_keypassphrase

Description

SFTP passphrase to login on SFTP server. It is used if it is needed by the server, and if usekey=true.

Default value

No default value defined.

collaborateAttachmentsSFTP knownhosts

Description

Optional. File name for known hosts (used if it is needed by server).

Default value

No default value defined.

collaborateAttachmentsSFTP_directory

Description

Optional. Accepts the relative path of the directory with respect to the FTP default directory from where Distributed Marketing can get the attachments for the Windows operating system.

Default value

No default value defined.

collaborateAttachmentsSFTP_deletefile

Description

Optional. Deletes original file after copy, if possible.

Default value

false

Valid values

```
TRUE | FALSE
```

mergeEnabled

Description

Determines whether the merge of documents will be enabled:

- true: the merge is enabled (default).
- false: the merge is disabled.

Default value

true

Valid values

TRUE | FALSE

mergeFullWritePath

Description

When the merge feature is enabled, this parameter specifies the full path to the merged data file on the local machine.

Default value

c:/temp

mergeDataLimitSize

Description

Indicates the upper limit for the size of the date to merge in Microsoft Word. The size is specified in rows (for example, a value of 100 indicates that the merged file cannot contain more than 100 rows). That is, if the number of rows in the file is greater than the value of this parameter, merge is not enabled for this file.

Default value

1000

upload_allowedFileTypes

Description

Indicates the types of files that can be uploaded in Distributed Marketing.

Default value

doc ppt xls pdf gif jpeg png mpp

upload_fileMaxSize

Description

Indicates the limit on the maximum size of the file that can be uploaded.

Default value

5000000

Attachment Folders uploadDir

Description

The full path to the Distributed Marketing upload directories. Edit this path to include the full path to the Distributed Marketing upload directories. For example, c:\Unica\DistributedMarketing\ projectattachments. If you are using UNIX, confirm that Distributed Marketing users have permission to read, write, and execute files in this directory.

Default value

projectattachments

taskUploadDir

Description

The full path to the Distributed Marketing task upload directories. Edit this path to include the full path to the Distributed Marketing upload directories. For example, c:\Unica\DistributedMarketing\taskattachments. If you are using UNIX, confirm that Distributed Marketing users have permission to read, write, and execute files in this directory.

Default value

taskattachments

Campaign Integration defaultCampaignPartition

Description

The default Campaign partition. Distributed Marketing uses this parameter if you do not define the <campaign-partition-id> tag in a project template file.

Default value

partition1

defaultCampaignFolderId

Description

The default Campaign folder ID. Distributed Marketing uses this parameter if you do not define the <campaign-folder-id> tag in a project template file.

Default value

2

Datasource indiName

Description

Datasource name for Distributed Marketing database.

Default value

collaborateds

asmJndiName

Description

Datasource name for Marketing Platform database, and is used only to synchronize users.

Default value

UnicaPlatformDS

Flowchart enableFlowchartPublishEvent

Description

Specifies whether Distributed Marketing receives events sent by Campaign when a flowchart is published.

Default value

True

flowchartRepublishOverwriteUserVarPrompt

Description

Specifies whether the User Variable prompt is overwritten when a flowchart is republished.

Default value

False

flow chart Republish Overwrite Proc Param Prompt

Description

Specifies whether the Process Parameter prompt is overwritten when a flowchart is republished.

Default value

False

flowchartServiceCampaignServicesURL

Description

The URL to the CampaignServices web service that should be used to run flowcharts, get flowchart data, and so on.

Note: Do not change the default value for this parameter unless Campaign is installed on a different machine or port than Distributed Marketing.

Default value

http://[server-name]:[server-port]/Campaign/services/
CampaignServices30Service

flowchartServiceCampaignServicesTimeout

Description

The number of milliseconds Distributed Marketing waits for communications with the Campaign services before issuing a timeout error.

Default value

600000

flowchartServiceNotificationServiceURL

Description

The URL to Distributed Marketing's notification service that receives notifications from Campaign.

Note: If you use a nonstandard context root, you must specify this parameter.

Default value

```
http://[server-name]:[server-port]/collaborate/
flowchartRunNotifyServlet
```

flowchartServiceCampaignServicesAuthorizationLoginName

Description

A Campaign user with administrative permissions, including access to all data sources, for example, asm_admin.

Default value

[CHANGE-ME]

flowchartServiceScheduleServices10Timeout

Description

The number of milliseconds Distributed Marketing waits for communications with the Marketing Platform scheduler before issuing a timeout error.

Default value

600000

flowchartServiceScheduleServices10MaxRetries

Description

The number of times Distributed Marketing attempts to connect with the Marketing Platform scheduler before issuing an error.

Default value

3

flowchartServiceScheduleServices10RetryPollPeriod

Description

The number of seconds Distributed Marketing waits before attempting to communicate with the Marketing Platform scheduler again.

Default value

60

flowchartServiceScheduleServices10ThrottleType

Description

The types of throttling for scheduled flowchart runs. The valid values are

• 0: no throttling (throttle value is ignored)

- 1: throttle per flowchart instance
- 2: throttle all flowcharts (default)

Default value

2

flowchartServiceScheduleServices10ThrottleValue

Description

The maximum number of scheduled flowcharts or flowchart instances that can be run at one time.

Default value

10

flowchartServiceSchedulerMonitorPollPeriod

Description

Optional. Defines the approximate time, in seconds, for the scheduler monitor to sleep between polls.

Default value

10

flowchartServiceSchedulerMonitorRemoveSize

Description

Optional. Sets the number of jobs to try to remove from the queue in one shot. The scheduler monitor continues removing events from the event queue in increments specified by this value until none are left.

Default value

10

flowchartServiceIsAliveMonitorTimeout

Description

The duration, in seconds, to wait between the start of the flowchart execution and the periodic queries to Campaign of the isAlive monitor.

Default value

900

flowchartServiceIsAliveMonitorMaxRetries

Description

The maximum number of queries which are sent to Campaign by the isAlive monitor before throwing a flowchart execution error.

Default value

10

flowchartServiceIsAliveMonitorPollPeriod

Description

The time, in seconds, to wait between queries made by the isAlive monitor to Campaign.

Default value

600

History enableRevisionHistoryPrompt

Description

Ensures that users are prompted to add charge comments when saving a project or request or approval.

Default value

false

Valid values

TRUE | FALSE

runHistoryKeep_LIST

Description

Number of run history records to keep for a LIST project. If the value is <=0, Distributed Marketing keeps all run history records.

Default value

-1

runHistoryKeep_LOCAL

Description

Number of run history records (for a List or Campaign flowchart) to keep a local project. If the value is <=0, Distributed Marketing keeps all run history records.

Default value

-1

runHistoryKeep_CORPORATE

Description

Number of run history records (for each run flowchart task) to keep for a corporate project. If the value is <=0, Distributed Marketing keeps all run history records.

Default value

-1

Listing Pages listItemsPerPage

Description

Specifies how many items (rows) to be displayed in one list page. This value should be greater than 0.

Default value

IistPageGroupSize

Description

Specifies the size of visible page numbers in the list navigator in the list page. For example, pages 1-5 is a page group. This value should be greater than θ .

Default value

5

maximum I tems To Be Displayed In Calendar

Description

The maximum number of objects the system displays on calendars. Use this parameter to restrict users' view of calendars to a specific number of objects. The setting of 0, the default, indicates that there is no restriction.

Default value

0

List Manager listManagerEnabled

Description

Optional. Determines whether marketers can view the List Manager section on the Summary tab:

- true: the List Manager section displays (default)
- false: hides the List Manager section

If you disable the List Manager, you do not need to configure the List Manager configuration files.

Note: The data source to the List Manager table must be active to update the list size after generation.

Default value

true

Valid values

TRUE | FALSE

IistManagerSearchscreenMaxrow

Description

Indicates the maximum number or rows that will be returned on the search screen.

Default value

1000

IistManagerListPageSize

Description

The number of rows displayed on a page in List Manager.

Default value

20

listManagerListsMaxrow

Description

The maximum number of rows displayed in a list.

Default value

10000

listManagerResetToValidateIsAllowed_list

Description

By default, when this property is set to false, you have the following actions when validating proposed contacts from a List:

- To Validate > Approved
- To Validate > Removed
- Added > Removed
- Approved > Removed
- Removed > Approved

If you set this property to true, you can also reset a selection if you made an error with the addition of the following actions:

- Removed > To Validate
- Approved > To Validate

Default value

false

Valid values

TRUE | FALSE

listManagerResetToValidateIsAllowed_local

Description

By default, when this property is set to false, you have the following actions when validating proposed contacts from an On-demand Campaign.

- To Validate > Approved
- To Validate > Removed
- Added > Removed
- Approved > Removed
- Removed > Approved

If you set this property to true, you can also reset a selection if you made an error with the addition of the following actions:

- Removed > To Validate
- Approved > To Validate

Default value

false

Valid values

listManagerResetToValidateIsAllowed_corporate

Description

By default, when this property is set to false, you have the following actions when validating proposed contacts from a Corporate Campaign list:

- To Validate > Approved
- To Validate > Removed
- Added > Removed
- Approved > Removed
- Removed > Approved

If you set this property to true, you can also reset a selection if you made an error with the addition of the following actions:

- Removed > To Validate
- Approved > To Validate

Default value

false

Valid values

TRUE | FALSE

Lookup Cleanup lookupCleanupMonitorStartDay

Description

Indicates the day when the unused lookup tables or views are automatically cleaned up. The parameter takes week days in terms of counts, such as Sunday = 1, Monday = 2, etc. The frequency is weekly.

Default value

2

lookupCleanupMonitorStartTime

Description

Indicates the time when the unused lookup tables or views are automatically cleaned up. The frequency is weekly.

Default value

09:30 am

Notifications notifyCollaborateBaseURL

Description

The URL for Distributed Marketing. Edit this URL by entering the computer name where you installed Distributed Marketing and the port number you want to use.

Default value

```
http://[server-name]:[server-port]/collaborate/
affiniumcollaborate.jsp
```

notifyDelegateClassName

Description

Optional. Specifies the fully qualified Java class name of the delegate implementation to be installed by the service.

Default value

No default value defined.

notifyIsDelegateComplete

Description

Indicates that the delegate implementation is complete.

Default value

true

Valid values

TRUE | FALSE

notifyEventMonitorStartTime

Description

Optional. Time to start the event monitor formatted according to the java.text.DateFormat class for the current locale, SHORT version. For example, in US English, the valid string is HH:MM A/PM. The default is set to start immediately after the monitor is created.

Default value

No default value defined.

notifyEventMonitorPollPeriod

Description

Optional. Defines the approximate time, in seconds, for the event monitor to sleep between polls.

Default value

33

notifyEventMonitorRemoveSize

Description

Optional. Defines the number of events to try to remove from queue in one shot.

Default value

10

Email:

notify Sender Address Override

Description

Optional. Email address to use for the REPLY-TO and FROM email addresses for notifications. By default, the event number owner's email address is used. If this parameter is not declared or an empty email address is provided, the default addresses are used.

notifyEmailMonitorJavaMailSession

Description

Optional. Specifies the JNDI name of an existing initialized JavaMail Session to use for email notifications.

Default value

No default value defined.

notifyEmailMonitorJavaMailHost

Description

The machine name or IP address of your organization's SMTP server.

Default value

[none]

notify Email Monitor Java Mail Protocol

Description

Optional. Mail server transport protocol to use for email notifications.

Default value

smtp

notify Default Sender Email Address

Description

A valid email address for Distributed Marketing to use to send emails when there is otherwise no valid email address available to send notification emails.

Default value

[CHANGE-ME]

notifyEmailMonitorStartTime

Description

Optional. The time to start the email monitor formatted according to the <code>java.text.DateFormat</code> class for the current locale, SHORT version. For example, in US English, the valid string is HH:MM A/PM. The default is set to start immediately after monitor is created.

Default value

No default value defined.

notifyEmailMonitorPollPeriod

Description

Optional. Defines the approximate time, in seconds, for the email monitor to sleep between polls.

Default value

60

notifyEmailMonitorRemoveSize

Description

Optional. Defines the number of events to try to remove from queue in one shot.

Default value

10

notifyEmailMonitorMaximumResends

Description

Optional. Maximum number of times to try to resend an email after send problems are detected.

Default value

1440

emailMaximumSize

Description

Maximum size, in bytes, of an email.

Default value

2000000

Project:

notifyProjectAlarmMonitorStartTime

Description

Optional. Time to start the project alarm monitor. If not set, it will start immediately after the monitor is created.

Default value

10:00 pm

notifyProjectAlarmMonitorPollPeriod

Description

Optional. Defines approximate time, in seconds, for the project alarm monitor to sleep between polls.

Default value

86400

notify Project Alarm Monitor Schedule Start Condition

Description

Optional. The number of days before a project's start date when Distributed Marketing should start sending start notifications to users. If a project is pending and its start date is within the condition number of days in the future, a PROJECT_SCHEDULED_START notification will be sent out to the appropriate users. If the value is -1, then this condition is not checked for.

Default value

1

notify Project Alarm Monitor Schedule End Condition

Description

Optional. The number of days before a project's end date when Distributed Marketing should start sending notifications to users. If a project is active and its end date is within the condition number of days in the future, a PROJECT_SCHEDULED_END notification will be sent out to the appropriate users. If the value is -1, then this condition is not checked for.

Default value

3

notify Project Alarm Monitor Schedule Cutoff Condition

Description

Optional. The number of days to start notifying users that a project is scheduled to be enclosed. If a project is active and its cutoff date is within the condition number of days in the future, a

CORPORATE_CAMPAIGN_TO_REVIEW notification will be sent out to the appropriate users. If the value is -1, then this condition is not checked for.

Default value

3

notifyProjectAlarmMonitorTaskScheduledStartCondition

Description

Optional. The number of days before a task's start date when Distributed Marketing should start sending notifications to users. If a task is pending and its start date is within the condition number of days in the future, a TASK_SCHEDULED_START notification will be sent out to the appropriate users. If the value is -1, then this condition is not checked for.

Default value

1

notify Project Alarm Monitor Task Scheduled End Condition

Description

Optional. The number of days before a task's start date when Distributed Marketing should start sending notifications to users that a task did not start. If a task is active and its end date is within the condition number of days in the future, a TASK_SCHEDULED_END notification will be sent out to the appropriate users. If the value is -1, then this condition is not checked for.

Default value

3

notify Project Alarm Monitor Task Late Condition

Description

Optional. The number of days after a task's start date when Distributed Marketing should start sending notifications to users that a task did not start. If a task is pending and its scheduled start date is within the condition number of days in the past, a TASK_LATE notification will be sent out to the appropriate users. If the value is -1, then this condition is not checked for.

Default value

3

notify Project Alarm Monitor Task Overdue Condition

Description

Optional. The number of days after a task's end date when Distributed Marketing should be notifying users that a task did not finish. If a task is active and its scheduled end date is within the condition number of days in the past, a TASK_OVERDUE notification will be sent out to the appropriate users. If the value is -1, then this condition is not checked for.

Default value

3

notify Project Alarm Monitor Task Scheduled Milestone Condition

Description

Optional. The number of days before a task milestone's start date when Distributed Marketing should start sending notifications to users. If a milestone task is active and its scheduled end date is within the condition number of days in the future, a TASK_SCHEDULED_MILESTONE notification will be sent out to the appropriate users. If the value is -1, then this condition is not checked for.

Default value

1

System Task: systemTaskMonitorStartTime

Description

Optional. The time to start the system task monitor.

- If this parameter contains a value (for example, 11:00 pm), this is the start time for the task monitor to start.
- If this parameter is undefined, the monitor starts immediately after it is created.

Default value

3

systemTaskMonitorPollPeriod

Description

Optional. The duration, in seconds, for the system task monitor to sleep between polls.

Default value

3600

Performance commonDataAccessLayerFetchSize

Description

This parameter is a performance optimization that sets the batch size of some performance-sensitive queries. The fetch size is used to determine how many records in the result set are returned to the application at one time.

Default value

500

commonDataAccessLayerMaxResultSetSize

Description

This parameter crops all list page results that are longer than the specified value.

Default value

1000

ssdorSearchResultLimit

Description

The maximum number of rows returned by SSDOR Search Screen. Increasing this number to a high value may degrade performance.

Default value

500

Readonly Lookup Tables lookupTableName

Description

Optional. Read-only lookup table names. The lookup table may not be updated in the Form Editor, and is allowed as a wildcard at the end of lookup table names.

Default value

Reports

reportsAnalysisSectionHome

Description

Indicates the home directory for the Analysis Section reports.

Default value

/content/folder[@name='Affinium Collaborate']

reportsAnalysisTabHome

Description

Indicates the home directory for the object (Corporate Campaign, List, or On-demand Campaign) Analysis Tab reports.

Default value

/content/folder[@name='Affinium Collaborate - Object Specific
Reports']

reportsAnalysisCorporateSectionHome

Description

Indicates the home directory for the corporate marketer Analysis Section reports.

Default value

/content/folder[@name='Affinium Collaborate']

reportsAnalysisCorporateTabHome

Description

Indicates the home directory for corporate marketer object (Corporate Campaign, List, or On-Demand Campaign) Analysis Tab reports.

Default value

/content/folder[@name='Affinium Collaborate - Object Specific
Reports']/folder[@name='Corporate Marketer']

reportsAnalysisFieldMarketerSectionHome

Description

Indicates the home directory for the field marketers Analysis Section reports.

Default value

/content/folder[@name='Affinium Collaborate']/folder[@name='Field
Marketer']

reportsAnalysisFieldTabHome

Description

Indicates the home directory for the field marketer object (Corporate Campaign, List, or On-Demand Campaign) Analysis tab reports.

Default value

/content/folder[@name='Affinium Collaborate - Object Specific
Reports']/folder[@name='Field Marketer']

Siblings siblingService

Description

Optional. Used to build links to other Distributed Marketing instances to propagate events.

Default value

http://[server-name]:[server-port]/collaborate/services/
CollaborateIntegrationServices/1.0

Templates templates Dir

Description

The directory that contains all your templates. As a best practice, set this to the full path to IBM-Home\DistributedMarketing\templates.

Default value

templates

projectTemplatesFile

Description

The specified file describes the various sort of projects: List, On-Demand, and Corporate Campaign.

•

Default value

project_templates.xml

templateAutoGenerateNameEnabled

Description

Indicates if template name for new template must be generated or not.

Default value

true

Valid values

TRUE | FALSE

defaultListTableDSName

Description

Used to assign datasource name for templates while importing template if datasource name is not defined.

Default value

ACC DEMO

templateAdminGroup_Name

Description

Specifies multiple groups. Users belonging to these groups will have access to template configuration links in Distributed Marketing. Groups with the same name must exist in the Marketing Platform. Multiple groups should be separated by commas.

Default value

Template Administrators

Workflow daysInPastRecentTask

Description

How many days in the past Distributed Marketing looks for recent tasks.

Default value

14

daysInFutureUpcomingTasks

Description

How many days in the future Distributed Marketing looks for recent tasks.

Default value

14

beginningOfDay

Description

Indicates the beginning hour of the working day (valid values are 0-12, representing midnight to noon). This setting is used to calculate the date-times in workflows when using fractional durations.

Default value

9

numberOfHoursPerDay

Description

Indicates the number of hours per day (valid values are 1-24). The default indicates a standard, 8-hour work day. This setting is used to calculate the date-times in workflows when using fractional durations.

Default value

8

automaticallyRestartFailedRecurrentTasks

Description

Decides whether to automatically restart the failed recurrent tasks. If the value of parameter is set to false, users will have to manually update the failed task status to Pending either from workflow or from post-task update pop. The schedule will pick up only those tasks for execution which are in pending state.

If the value is set to true, no manual intervention will be required to restart this task.

Default value

true

Valid values

TRUE | FALSE

project Work flow Refresh Period In Seconds

Description

System-wide workflow refresh period, in seconds.

Default value

180

Appendix B. Style Guide for the Cognos Reports

The IBM Cognos reporting integration components include a global report stylesheet, GlobalReportStyles.css. When you create new IBM Cognos reports for your IBM Unica applications, your reports should use the styles from this css file with some additional manual formatting. That way the styles in the new reports match those used by the reports provided in the IBM Unica reports packages.

This appendix provides the following information for the various kinds of reports (lists, charts, and so on).

The styles implemented with the GlobalReportStyles.css file.

Style formatting is something that you must do manually when you author a report, because there are certain cases in which the style cannot be provided by the stylesheet.

Global report styles

Item	CSS class name	Style			
General font family	pg, pp	font-family: Arial,			
Report title	ta	font-size: 10pt;			
Page – Header	ph	padding-bottom:10px;			
		font-size:8pt;			
		font-weight:bold;			
Page – Footer	pf	padding-top:10px;			
		font-size:8pt;			
		font-weight:bold;			
Field Set Labels	fs	font-size:8pt;			
Table	tb	border-collapse:collapse			
Table - List Column Title Cell	lt	text-align:left;			
		background-color:#F2F2F2; /*light grey*/			
		font-weight:bold;			
		border-top:1px solid silver;			
		border-left:1px solid silver;			
		border-bottom:1.5pt solid black;			
		border-right:1px solid silver;			
		padding-top: 13px;			

Item	CSS class name	Style				
Table - List Column Body Cell	lc, lm	border:1px solid silver;				
Table – Outer header	oh	background-color:#FFFFCC; /*light yellow*/				
Table – List Footer	of, os	border-top:1.5pt solid black;				
Crosstab	xt	border-collapse:collapse;				
Crosstab – Default Measure Cell	xm	border-top:1px solid silver; border-left:1px solid silver;				
		border-bottom:1.5pt solid black;				
		border-right:1.5pt solid black;				
Crosstab – Member Label Cell	ml	background-color: transparent;				
		border:1px solid silver;				
Crosstab – Outer Level Total	ol	background-color:#F7F7F7; /*offwhite*/				
Crosstab – Spacer	xs	background-color: transparent;				
		font-weight: bold;				
Chart	ch	border:1pt solid #E4E4E4;				
Chart – Title	ct	font-size:10pt;				
		font-weight:bold;				
Chart – Axis Labels	al	font-size:10pt;				
Chart – Axis Line	at	color:#939393;				
Chart - Gradient	In XML Report Specification	Before the closing chart tag () in the XML Report Specification, paste the following:				
		<filleffects></filleffects>				
		<chartgradient direction="up" fromColor="#F2F2F2" toColor="#FFFFFF"/></chartgradient 				

Item	CSS class name	Style
Chart – Chart Palette	In XML Report Specification	Before the closing chart tag () in the XML Report Specification, paste the following:
		<chartpalette></chartpalette>
		<chartcolor value="#00508A"/></chartcolor
		<chartcolor value="#376C37"/></chartcolor
		<chartcolor value="#FB9A4D"/></chartcolor
		<chartcolor value="#B8351F"/></chartcolor
		<chartcolor value="#69817B"/></chartcolor
		<chartcolor value="#473E9A"/></chartcolor
		<chartcolor value="#5384AE"/></chartcolor
		<chartcolor value="#61C2A3"/></chartcolor
		<chartcolor value="#FF5656"/></chartcolor
		<chartcolor value="#A583BB"/></chartcolor
		<chartcolor value="#506079"/></chartcolor
		<chartcolor value="#A0A080"/></chartcolor
		<chartcolor value="#F1EDC1"/></chartcolor
		<chartcolor value="#A6A6A6"/></chartcolor
		<chartcolor value="#818181"/></chartcolor

Report page styles

Item	Style
Text	Arial font

Item	Style
Report title text	Arial 10 point
Page footer text	Arial 8 point
Field Set labels	Arial 8 point

List report styles

List reports obtain the following formatting from the GlobalStyleSheet.css:

Item	Style
Cells	1 px silver line borders (unless otherwise noted)
Column header	Light gray background; 1.5 pt black line separates column header from rest of table
Summary header rows (list headers)	Light yellow background
Total row at bottom	Dark gray background; 1.5 pt black line separates row from rest of table

Additionally, when you create a new list report, do the following to make it match the existing reports:

- Use List Headers (and not List Footers) to display summarizations at the object
- Manually right-justify any numbers displayed in List Headers. Unlike List Footers, List Headers are not separated into the outer component and summary component, which use a right-justified style by default. So when summarizing information into a List Header, you must perform this extra step and right-justify the values.
- Optionally add 1.5 pt solid black borders to group columns

Following is a list report that does not use the global styles.

Example List Report

Campaign Name	Offer Name	Number of Offers Given	Unique Recipients	Response Transactions	Unique Responders	
Mortgage Multi-Channel Acquisition	Low Cost Refinance DM	3,973	3,973	1,239	1,117	
Campaign	Low Cost Refinance TM	2,696	2,696	875	787	
Multi - Wave Campaign		18,611	18,243	312	67	
Multi - Wave Campaign	15 Pct Off \$75 Direct Mail	300	300			
	Buy One Get One 50 Pct Off Direct Mail	300	300			
	Money Market Savings	18,011	18,011	312	6	
Multi-Channel Category Cross- Sell		19,672	19,672	4,825	2,54	
Multi-Channel Category Cross-Sell	Bath Dmail	1,552	1,552	1,013	417	
	Bath Email	2,260	2,260	1,281	52	
	Clearance Dmail	145	145	26	1	
	Clearance Email	200	200	33	2	
	Electronics Dmail	207	207	47	3	
	Electronics Email	270	270	59	3	
	Home Care Dmail	71	71	20	1	
	Home Care Email	92	92	22	1	
	Home Decor Dmail	4,190	4,190	676	44	
	Home Decor Email	6,250	6,250	931	60	
	Juniors Dmail	11	11			
	Juniors Email	8	8.			
	Kitchen Dmail	62	62	9		
	Kitchen Email	86	86	15	1	

Following is a list report that uses the global styles.

Campaign Name	Offer Name	Rumber of Offers Given	Unique Recipients	Response Transactions	Unique Responders
1. Retention for High Value Customer - eMail	NAME OF TAXABLE PARTY.	12,754	12,766	3,376	3,130
1. Retention for High Value Customer - et/ail	Phone Credit \$30 (English)	1,592	1,592	420	391
	Phone Credit \$30 (Spanish)	1,596	1,598	425	396
	PPV - 5 Free (English)	4,803	4,803	1,262	1,174
	PPV - 5 Free (Spanish)	4,763	4,763	1,200	1,170
2, Targeted Acquisition		5,000	5,000	1,601	1,065
2. Targeted Acquiation	Free Webcam High Speed Internet	2,500	2,500	432	426
	Oilt Certificate Offer	2,500	2,500	1,109	663
3. Direct Mail Multi-Vieve		8,337	8,337	1,929	1,834
3. Direct Wall Multi-Wave	New Phone Existing Cable - Initial	8,337	8,337	1,929	1,834
Association Compaigns		150	150	,	3
Association Campaigns	OM-20 pct off Books	25	25		
	DM-20 pct off Education	25	25		1
	QN-Phorma Conation Match	26	25		
	EM-20 pct eff Beeks	25	25		
	EM-20 pct off Education	25	25		2
	Est-Pharma Conation Watch	25	25		
Casino Marketing Campaign C860007923		884	884	10,123	1,994
Casino Marketing Campaign C000007023	Free Buffet Dinner Offer	443	443	47	37
	Free Gas Card Offer	443	443	10,076	1,979
Credit Card Acquisition		364	364	- 44	16
Credit Card Acquisition	Credit Card Offer	364	364	44	-10
Customer Winback		3,854	3,856	396	149
Customer Winback	15 Pct Off On Purchase \$100+ OM	2,961	2,961		
	20 Percent Off Any Single tem Offer	895	205	296	149
Gaming Re-Activation C000007021		2,458	2,458	1,012	363
Gaming Re-Activision C000007021	Pay Multipliers Offer	2,458	2,458	1,012	363
Home Equity Cross Seti		6,941	6,637	745	268
Nome Equity Cross Sell	Fee based Home Equity Line of Credi	8 862	862	- 6	6

Crosstab report styles

Crosstab reports obtain the following formatting from the GlobalStyleSheet.css.

Item	Style
Cells	Transparent background; 1 px silver line borders
Measure cell (upper left)	1.5 pt black line separates the cell from the rest of the crosstable
Outer level totals	Gray/offwhite background

Additionally, when you create a new list report, do the following to make it match the existing reports.

- Use 1.5 pt black borders to separate summarizations from measures.
- Use 1.5 black borders to group logical column groupings
- General guideline: avoid summarizing both columns and rows in the same report.

Following is a crosstab report that does not use the global styles.

Example Crosstab Report

	1		2 3			4		7		9	
	Number of Offers Given	Unique Recipients	Number of Offers Given	Recipients	Number of Offers Given		Number of Offers Given	Recipients	Number of Offers Given	Recipients	Number of Offers Given
	1,263	1,263	6,941	6,637	8,404	7,157	8,337	8,337			
Cross Sell	19,940	19,806	24,324	24,324		*********	-	200000	9,563	9,563	
Loyalty	3,856	3,856			4,414	4,414					8
Retention	150	150			12,756	12,756					23,114
Acquisition		- 2000			13,339	13,339	5,000	5,000			

Following is a crosstab report that uses the global styles and has 1.5 px borders applied to show column groupings.

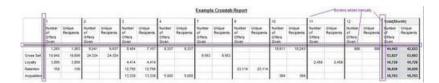


Chart styles

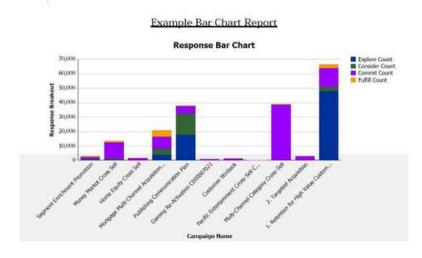
Charts obtain the following formatting from the GlobalStyleSheet.css.

Item	Style		
Charts	1 pt light gray border		
Titles and labels	10 point bold font		

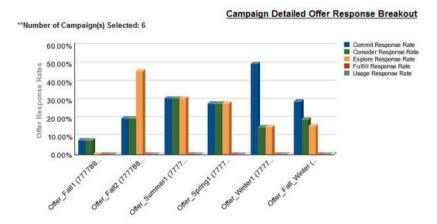
Additionally, when you create a new chart, do the following to make it match the existing chart reports.

- Use the default width, unless there is more than one chart on the report. When you include multiple charts in a single report, set the chart width to 750px.
- To use gradients and color palettes, copy and paste the strings from the table in "Global report styles" on page 491 into the XML report specification.
- General guideline: select the chart type based on the data you expect to be returned.
 - Use line graphs as the chart type only when you can guarantee the report will retrieve continuous data.
 - If there are multiple series, a stacked bar works better than a non-stacked bar.
 - As a best practice, use percentages only when the total percentage equals 100%. Pie charts tend to confuse people when the values do not add up to 100%.
- If there are only two series on a chart and you display both the Y1 and Y2 axes, as a best practice you should match the colors to the first tow palette colors for the axis labels.

Following is a chart that does not use the global styles.



Following is a chart that uses the global styles and has additional formatting applied.



Dashboard report styles

Dashboard reports use the global styles with some manual formatting. Be sure to format reports that will be displayed in the Dashboard according to the following guidelines so they fit properly in Dashboard portlets.

Item	Style
Background color	Keep background color set to gray (hex value F2F2F2).
Size	Specify size by using percentages whenever possible. When sizing with a percentage is not possibe, set the size to 323 pixels wide by 175 pixels tall.
Subtitles	Put subtitles on the left side.
Dates	Put dates on the right side.
Legends	Center legends below the chart.
Lines in line charts	Display horizontal lines only. Do not display vertical lines.
Axis line color	Keep axis lines set to black.
Grid line color	Keep grid lines set to gray (hex value D9D9D9).
Lists (tables)	Display a maximum of 10 lines.

Appendix C. Reports and Reporting Schemas

The reporting schemas in the Campaign Report Package can be customized in the following ways.

- Add contact or response metrics
- Add custom campaign, offer, or cell attributes
- Add response types
- Configure the audience level for performance reports
- Create reporting schemas for additional audience levels.

The following table maps the individual IBM Cognos 8 BI reports provided in the Campaign Reports Package to the reporting schemas that support them.

	Campaign Views schema	Campaign Custom Attributes schema	Campaign Perform- ance schema	Offer Perform- ance schema	Campaign Offer Response Breakout	Offer Contact Status Breakout
What If Offer Financial Summary report	Х	Х		Х		
Campaign Detailed Offer Response Breakout	Х		X		X	
Offer Response Breakout, Dashboard version	Х		Х		Х	
Campaign Financial Summary by Offer (Actual)	Х	Х	X			
Campaign Return on Investment Compar- ison	Х	Х	Х			
Campaign Offer Perform- ance by Month	Х		Х			
Campaign Perform- ance Compar- ison	Х		Х			

	Campaign Views schema	Campaign Custom Attributes schema	Campaign Perform- ance schema	Offer Perform- ance schema	Campaign Offer Response Breakout	Offer Contact Status Breakout
Campaign Response Rate Compar- ison	Х		Х			
Campaign Perform- ance Compar- ison with Revenue	X		X			
Campaign Perform- ance Compar- ison by Initiative	Х		Х			
Campaign Perform- ance Summary by Cell	Х		X			
Campaign Perform- ance Summary by Cell with Revenue	X		X			
Campaign Perform- ance Summary by Cell and Initiative	Х		Х			
Campaign Perform- ance Summary by Offer	X		X			
Campaign Perform- ance Summary by Offer with Revenue	Х		Х			
Campaign Revenue Compar- ison by Offer	Х		Х			

	Campaign Views schema	Campaign Custom Attributes schema	Campaign Perform- ance schema	Offer Perform- ance schema	Campaign Offer Response Breakout	Offer Contact Status Breakout
Campaign Summary	X					
Offer Campaign Listings	X					
Offer Perform- ance Metrics	Х			X		
Offer Performan- ce by Day	X			X		
Offer Responses for Last 7 Days	Х			X		
Offer Perform- ance Compar- ison	Х			Х		
Offer Response Rate Compar- ison	X			X		
Offer Perform- ance Summary by Campaign	Х		Х	Х		

The following reports rely on the standard set of custom contact and response metric attributes that are provided in Campaign:

- · What If Offer Financial Summary
- Campaign Detailed Offer Response Breakout
- Campaign Financial Summary by Offer (Actual)
- Campaign Performance Comparison with Revenue
- Campaign Performance Summary by Cell with Revenue
- Campaign Performance Summary by Offer with Revenue

eMessage Reports and Reporting Schemas

The reporting schemas in the eMessage Report Package cannot be customized.

The following table maps the individual IBM Cognos 8 BI reports provided in the eMessage Reports Package to the Unica reporting schemas that support them.

	Mailing Performance Schema
Message Overview report	X
Detailed Link report	X
Detailed Link by Cell report	X
Detailed Bounce report	X

Interact Reports and Reporting Schemas

You can customize the reporting schemas in the Interact Report Package in the following ways:

- · Specify calendar time periods for performance reports
- Configure the audience level for performance reports
- Create additional performance reporting schemas for additional audience levels

The following table maps the individual IBM Cognos 8 BI reports provided in the Interact Reports Package to the IBM Unica reporting schemas that support them.

	Interactive View schema	Interact Performance View schema	Interactive Channel / Campaign Deployment History	Interact Runtime View schema	Interact Learning View schema
Campaign - Interactive Channel Deployment History	X		X		
Campaign - Interactive Cell Performance Over Time	X	X		X	
Campaign - Interactive Cell Performance by Offer	X	X		X	
Campaign - Interactive Offer Performance Over Time	X	X		X	
Campaign - Interactive Offer Performance by Cell	Х	Х		X	

	Interactive View schema	Interact Performance View schema	Interactive Channel / Campaign Deployment History	Interact Runtime View schema	Interact Learning View schema
Campaign - Interactive Offer Learning Details	Х				X
Interactive Cell Lift Analysis	Х	X		X	X
Interactive Channel - Channel Deployment History	X		X		
Interactive Channel - Channel Event Activity Summary report	X			X	
Interactive Channel - Channel Interaction Point Performance Summary	Х	X		X	
Interactive Channel - Channel Treatment Rule Inventory	Х				
Interactive Segment Lift Analysis	Х	Х		Х	
Interaction Point Performance	X	Х		Х	

Appendix D. Re-branding the IBM Unica Frameset

You can customize the appearance of the IBM Unica HTML frameset where most IBM Unica Marketing product pages appear. By editing a cascading style sheet and providing your own graphics, you can change many of the images, fonts, and colors in the user interface. This is sometimes called re-branding, because you can override the IBM logo and color scheme with your company's logo and color scheme.

About the Marketing Platform stylesheets

The IBM Unica HTML frameset is formatted by a number of cascading style sheets, located in the css directory within the unica.war file. Several of these stylesheets import a stylesheet named corporatetheme.css in the css\theme directory. By default, this corporatetheme.css file is blank. When you replace this blank file with one that uses your colors and images, you change the appearance of the frameset.

IBM Unica also provides an example corporatetheme.css file, in the css\theme\DEFAULT directory within the unica.war file. This example stylesheet contains all of the specifications that are customizable, along with comments that explain what areas of the frameset each specification affects. You can use this file as a template for making your own changes, as described in the instructions in this section.

About images

Your images can be PNG, GIF, or JPEG format.

The size of the logo image must be no larger than 473px wide and 88px tall. The IBM Unica logo has these dimensions to include a semi-transparent area that overlays the background in the navigation pane, but your logo can be narrower. If you use a different size logo image, it might be necessary to add a background-position property to the logo spec in the stylesheet (body.navpane #header .inner).

IBM Unica uses sprites for some of its buttons and icons. Using sprites reduces the number of HTTP requests going to the server, and can reduce possible flickering. Where IBM Unica uses sprites, the name of the image includes _sprites. If you want to replace these images, you should use sprites with the same dimensions, as this requires the fewest modifications to the stylesheet. If you are not familiar with sprites, you can learn about them on the internet.

To prepare your corporate theme

- 1. When you installed the Marketing Platform, you may have created an EAR file containing the unica.war file, or you may simply have installed the unica.war file. In either case, extract your installed file as necessary to access the files and directories the unica.war file contains.
- Locate the corporatetheme.css file, located under in the css\theme\DEFAULT directory.

- 3. See the comments in the corporatetheme.css file for details on which area of the framework each stylesheet specification affects.
- 4. See the images in the css\theme\imp directory to guide you in creating your images.
- 5. Create your theme in your preferred graphics program and make a note of the image names, fonts, and hexadecimal specifications for the font and background colors.
- 6. Edit the corporate theme.css file to use your fonts, colors, and images.

To apply your corporate theme

- 1. Place the images you want to use (for example, your logo, buttons, and icons) in a directory accessible from the machine where the Marketing Platform is installed. Refer to the modified corporatetheme.css file created as described in a "To prepare your corporate theme" on page 505 to determine where to place your images.
- 2. If the Marketing Platform is deployed, undeploy it.
- 3. When you installed the Marketing Platform, you may have created an EAR file containing the unica.war file, or you may have installed the unica.war file. In either case, do the following.
 - Make a backup of your WAR or EAR file, saving the backup with a different name (for example, original_unica.war). This enables you to roll back your changes if necessary.
 - Extract your installed file as necessary to access the files and directories the unica.war contains.
- 4. Place the modified corporatetheme.css file, created as described in "To prepare your corporate theme" on page 505, in the css\theme directory.

 This overwrites the blank corporatetheme.css file that is already there.
- 5. Re-create the unica.war file, and, if necessary, the EAR file that contained it.
- 6. Deploy the WAR or EAR file.
- 7. Clear your browser cache and log in to IBM Unica Marketing. Your new theme should be visible in the IBM frameset.

Contacting IBM Unica technical support

If you encounter a problem that you cannot resolve by consulting the documentation, your company's designated support contact can log a call with IBM Unica technical support. Use the information in this section to ensure that your problem is resolved efficiently and successfully.

If you are not a designated support contact at your company, contact your IBM Unica administrator for information.

Information to gather

Before you contact IBM Unica technical support, gather the following information:

- A brief description of the nature of your issue.
- · Detailed error messages you see when the issue occurs.
- Detailed steps to reproduce the issue.
- Related log files, session files, configuration files, and data files.
- Information about your product and system environment, which you can obtain as described in "System information."

System information

When you call IBM Unica technical support, you might be asked to provide information about your environment.

If your problem does not prevent you from logging in, much of this information is available on the About page, which provides information about your installed IBM Unica applications.

You can access the About page by selecting **Help > About**. If the About page is not accessible, you can obtain the version number of any IBM Unica application by viewing the version.txt file located under the installation directory for each application.

Contact information for IBM Unica technical support

For ways to contact IBM Unica technical support, see the IBM Unica Product Technical Support website: (http://www.unica.com/about/product-technical-support.htm).

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