IBM Interact Version 9 Release 1 October 25, 2013

Upgrade Guide



Note Before using this information and the product it supports, read the information in "Notices" on page 43.					
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Chapter 1. Upgrade overview

An upgrade of Interact is complete when you upgrade, configure, and deploy Interact. The Interact Upgrade Guide provides detailed information about upgrading, configuring, and deploying Interact.

Use the Upgrade Roadmap section to obtain a broad understanding about using the Interact Upgrade Guide.

Upgrade roadmap

Use the upgrade roadmap to quickly find the information that you need for upgrading Interact.

You can use the following table to scan the tasks that must be completed for upgrading Interact:

Table 1. Interact upgrade roadmap

Topic	Information	
Chapter 1, "Upgrade overview"	This chapter provides the following information:	
	"How the installers work" on page 2	
	"Modes of installation" on page 3	
	"Interact documentation and help" on page 4	
Chapter 2, "Planning the Interact upgrade," on page 7	This chapter provides the following information:	
	• "Prerequisites" on page 7	
	"Upgrade prerequisites for all IBM EMM products" on page 9	
	• "Interact upgrade tools" on page 10	
	• "Interact upgrade worksheet" on page 11	
	"Information for creating JDBC connections" on page 15	

Table 1. Interact upgrade roadmap (continued)

Topic	Information
Chapter 3, "Upgrading Interact," on page 17	This chapter provides the following information:
	"Backing up the Interact runtime environment" on page 17
	• "Undeploying the Interact runtime server" on page 17
	• "Running the installer" on page 18
	"Reviewing and modifying the SQL upgrade script" on page 18
	• "Setting environment variables" on page 21
	• "Running the Interact upgrade tools" on page 23
	• "Redeploying the Interact runtime server in the web application server" on page 24
	• "Upgrade log" on page 24
	"Upgrading partitions" on page 25
	"Creating and populating the Interact system tables" on page 25
Chapter 4, "Deploying Interact," on page 29	This chapter provides the following information:
	"Deploying Interact on WebSphere Application Server" on page 29
	"Deploying Interact on WebLogic" on page 31
	"Verifying the Interact installation" on page 32
Chapter 5, "Uninstalling Interact," on page 33	This chapter provides information about how to uninstall Interact.
Chapter 6, "The configTool utility," on page 35	This chapter provides information about how to use the configTool utility.

How the installers work

You must use the suite installer and the product installer when you install any IBM® EMM product. For example, for installing Interact, you must use the IBM EMM suite installer and the IBM Interact installer.

Make sure that you use the following guidelines before you use the IBM EMM suite installer and the product installer:

- The suite installer and the product installer must be in the same directory on the
 computer where you want to install the product. When multiple versions of a
 product installer are present in the directory with the master installer, the master
 installer always shows the latest version of the product on the IBM EMM
 Products screen in the installation wizard.
- If you are planning to install a patch immediately after you install an IBM EMM product, make sure that the patch installer is in the same directory as that of the suite and product installers.

 The default top-level directory for IBM EMM installations is /IBM/EMM for UNIX or C:\IBM\EMM for Windows. However, you can change the directory during installation.

Modes of installation

The IBM EMM suite installer can run in one of the following modes: GUI mode, console mode, or silent mode (also called the unattended mode). Select a mode that suits your requirements when you install Interact.

GUI mode

Use the GUI mode for Windows or the X Window System mode for UNIX to install Interact by using the graphical user interface.

Console mode

Use the console mode to install Interact by using the command-line window.

Note: To display the Installer screens correctly in console mode, configure your terminal software to support UTF-8 character encoding. Other character encoding, such as ANSI, will not render the text correctly, and some information will not be readable.

Silent mode

Use the silent or unattended mode to install Interact multiple times. The silent mode uses response files for installation, and does not require user input during the installation process.

Sample response files

You must create response files to set up a silent installation of Interact. You can use sample response files to create your response files. The sample response files are included with the installers in the ResponseFiles compressed archive.

The following table provides information about sample response files:

Table 2. Description of sample response files

Sample response file	Description
installer.properties	The sample response file for the IBM EMM master installer.
<pre>installer_product intials and product version number.properties</pre>	The sample response file for the Interact installer. For example, installer_ucn.n.n.properties is the response file of the Campaign installer, where <i>n.n.n.n</i> is the version number.
installer_report pack initials, product initials, and version number.properties	The sample response file for the reports pack installer. For example, installer_urpc.properties is the response file of the Campaign reports pack installer.

Interact documentation and help

Interact provides documentation and help for users, administrators, and developers.

Use the following table to get information about how to get started with Interact:

Table 3. Get up and running

Task	Documentation
View a list of new features, known issues, and workarounds	IBM Interact Release Notes
Learn about the structure of the Interact database	IBM Interact System Tables and Data Dictionary
Install or upgrade Interact and deploy the Interact web application	One of the following guides: • IBM Interact Installation Guide • IBM Interact Upgrade Guide
Implement the IBM Cognos® reports provided with Interact	IBM EMM Reports Installation and Configuration Guide

Use the following table to get information about how to configure and use Interact:

Table 4. Configure and use Interact

Task	Documentation
Maintain users and roles	IBM Interact Administrator's Guide
Maintain data sources	
Configure Interact optional offer serving features	
Monitor and maintain runtime environment performance	
Work with interactive channels, events, learning models, and offers	IBM Interact User's Guide
Create and deploy interactive flowcharts	
View Interact reports	
Use Interact macros	IBM Macros for IBM EMM: User's Guide
Adjust components to obtain optimal performance	IBM Interact Tuning Guide

Use the following table to get information about how to get help if you face issues when you use Interact:

Table 5. Get help

Task	Instructions	
Open online help	Choose Help > Help for this page to open a context-sensitive help topic.	
	2. Click the Show Navigation icon in the help window to display the full help.	

Table 5. Get help (continued)

Task	Instructions
Obtain PDFs	Use either of the following methods:
	• Choose Help > Product Documentation to access Interact PDFs.
	Choose Help > All IBM EMM Suite Documentation to access all available documentation.
Get support	Go to http://www.ibm.com/support to access the IBM Support Portal.

Chapter 2. Planning the Interact upgrade

Upgrade your installation of Interact after understanding the guidelines that are specific to your current version of Interact.

Use the following guidelines for upgrading Interact:

Table 6. Upgrade scenarios for Interact

Source version	Upgrade path		
Any 5.x or 6.x version	Install Interact 9.1 in a new location. Note: There is no upgrade path from Interact 5.x or 6.x to the latest version of Interact.		
Any 7.x or pre-8.5x	Complete the following steps to upgrade Interact:		
version	1. Upgrade your earlier version to version 8.5 or 8.6.		
	a. Perform an in-place installation of version 8.5 or 8.6 over your old version.		
	Use the Interact installer for both the design time environment and the runtime environment. Important: You must upgrade Campaign before you upgrade the Interact design time environment.		
	b. Run the upgrade tools to upgrade configuration settings, files, and data from your source Interact version.		
	c. Upgrade the reports package as explained in the <i>IBM EMM Reports Installation and Configuration Guide</i> .		
	2. Follow the instructions to upgrade any Interact version 8.5x or later to the new version.		
Any 8.5x version or later	Complete the following steps to upgrade Interact:		
	1. Perform an in-place installation of the new version of Interact over your old version.		
	Use the Interact installer for both the design time environment and the runtime environment. Important: You must upgrade Campaign before you upgrade the Interact design time environment.		
	2. Run the upgrade tools to upgrade configuration settings, files, and data from your source Interact version.		
	3. Upgrade the reports package as explained in the <i>IBM EMM Reports Installation and Configuration Guide</i> .		

Prerequisites

Before you install or upgrade any IBM EMM product, you must ensure that your computer complies with all the prerequisite software and hardware.

System requirements

For information about system requirements, see the *Recommended Software Environments and Minimum System Requirements* guide.

Network domain requirements

The IBM EMM products that are installed as a suite must be installed on the same network domain to comply with the browser restrictions that are designed to limit the security risks that can occur with cross-site scripting.

JVM requirements

IBM EMM applications within a suite must be deployed on a dedicated Java $^{\text{TM}}$ virtual machine (JVM). IBM EMM products customize the JVM that is used by the web application server. If you encounter errors that are related to the JVM, you must create an Oracle WebLogic or WebSphere $^{\text{B}}$ domain that is dedicated to the IBM EMM products.

Knowledge requirements

To install IBM EMM products, you must have a thorough knowledge of the environment in which the products are installed. This knowledge includes knowledge about operating systems, databases, and web application servers.

Internet browser settings

Make sure that your internet browser complies with the following settings:

- The browser must not cache web pages.
- The browser must not block pop-up windows.

Access permissions

Verify that you have the following network permissions to complete the installation tasks:

- Administration access for all necessary databases
- Read and write access to the relevant directory and subdirectories for the operating system account that you use to run the web application server and IBM EMM components
- Write permission for all files that you must edit
- Write permission for all directories where you must save a file, such as the installation directory and backup directory if you are upgrading
- Appropriate read/write/execute permissions to run the installer

Verify that you have the administrative password for your web application server.

For UNIX, all installer files for IBM products must have full permissions, for example, rwxr-xr-x.

JAVA HOME environment variable

If a **JAVA_HOME** environment variable is defined on the computer where you install an IBM EMM product, verify that the variable points to a supported version of JRE. For information about system requirements, see the *Recommended Software Environments and Minimum System Requirements* guide.

Make sure that the **JAVA_HOME** environment variable points to JRE 1.6. If the **JAVA_HOME** environment variable points to an incorrect JRE, you must clear the **JAVA_HOME** variable before you run the IBM EMM installers.

You can clear the JAVA HOME environment variable by using one of the following

- Windows: In a command window, enter set JAVA HOME= (leave empty) and press Enter.
- UNIX: In the terminal, enter **export JAVA HOME=** (leave empty) and press Enter.

export JAVA HOME= (leave empty)

After the environment variable is cleared, the IBM EMM installers use the JRE that is bundled with the installers. You can reset the environment variable after the installation is complete.

Marketing Platform requirement

You must install Marketing Platform before you install any IBM EMM products. For each group of products that work together, you must install Marketing Platform only once. Each product installer checks whether the required products are installed. If your product or version is not registered with Marketing Platform, a message prompts you to install or upgrade Marketing Platform before you proceed with your installation. Marketing Platform must be deployed and running before you can set any properties on the **Settings** > **Configuration** page.

Campaign requirement

You must install and configure Campaign before you install the Interact design time environment.

Upgrade prerequisites for all IBM EMM products

Meet all requirements for permissions, operating system, and knowledge correctly before you upgrade Interact to ensure a seamless upgrade experience.

Removing response files generated by previous installations

If you are upgrading from a version before 8.6.0, you must delete the response files that are generated by previous Interact installations. Old response files are not compatible with the 8.6.0 and later installers.

Failure to remove old response files can result in having incorrect data pre-filled in installer fields when the installer is run, or in the installer failing to install some files or skipping configuration steps.

The IBM response file is named installer.properties.

The response files for each product are named installer_productversion.properties.

The installer creates response files in the directory that you specify during installation. The default location is the home directory of the user.

User account requirement for UNIX

On UNIX, the user account that installed the product must complete the upgrade, otherwise the installer fails to detect a previous installation.

32-bit to 64-bit version upgrades

If you are moving from a 32-bit to a 64-bit version of Interact, ensure that you complete the following tasks:

- Ensure that the database client libraries for your product data sources are 64-bit.
- Ensure that all relevant library paths, for example startup or environment scripts, correctly reference the 64-bit versions of your database drivers.

Unloading unused files from memory on AIX®

For installations on AIX, run the **slibclean** command that is included with your AIX installation to unload unused libraries from the memory before you run the installer in the upgrade mode.

Note: You must run the slibclean command as a root user.

Starting the web application server

When the JDBC drivers in WebLogic are used for migration, the web application server on which the new version of the Interact runtime server is deployed must always run to provide access to the database drivers.

Interact upgrade tools

You must upgrade the runtime environment and the design time environment when you upgrade Interact. Run the Interact upgrade tools to upgrade system tables, contact and response history tables, and Interact user profile tables.

Interact provides five upgrade tools, one for upgrading the design time environment (aciUpgradeTool) and four for upgrading the runtime environment (aciUpgradeTool_crhtab, aciUpgradeTool_lrntab, aciUpgradeTool_runtab, and aciUpgradeTool_usrtab). The upgrade scripts are delivered with the new version of Interact, and are available after you run the IBM EMM suite installer in clean or upgrade mode for both the runtime environment and the design time environment.

You can upgrade the Interact design time environment configuration properties when you upgrade the Campaign configuration properties.

Use the following table to understand the purpose of the Interact upgrade tools:

Table 7. Interact upgrade tools

Tool	Location	Purpose
aciUpgradeTool	<pre>Interact_Design_Install_Directory /interactDT/tools/upgrade</pre>	Upgrades the Interact design time environment tables in the Campaign system tables.
aciUpgradeTool_runtab	<pre>Interact_Runtime_Install_Directory /tools/upgrade</pre>	Upgrades the Interact runtime environment tables and the Interact runtime environment configuration properties.

Table 7. Interact upgrade tools (continued)

Tool	Location	Purpose
aciUpgradeTool_lrntab	<pre>Interact_Runtime_Install_Directory/ tools/upgrade</pre>	Upgrades the Interact learning tables.
aciUpgradeTool_crhtab	<pre>Interact_Runtime_Install_Directory/ tools/upgrade</pre>	Upgrades the contact and response history tables that are used with cross-session response tracking.
aciUpgradeTool_usrtab	<pre>Interact_Runtime_Install_Directory/ tools/upgrade</pre>	Upgrades the Interact tables that are required in your profile user tables.

Interact upgrade worksheet

Use the Interact upgrade worksheet to gather information about the database that contains your Interact upgrade system tables and about other IBM EMM products that are required for upgrading Interact.

Marketing Platform database information

The installation wizards for each IBM EMM product must be able to communicate with the Marketing Platform system table database to register the product. Each time that you run the installer, you must enter the following database connection information for the Marketing Platform system table database:

- Database type
- · Database host name
- Database port
- · Database name or schema ID
- User name and password for the database account
- JDBC connection URL to the Marketing Platform database

Information required to upgrade the Interact runtime environment

Gather information about your Interact runtime installation before you run the Interact runtime environment upgrade tools.

aciUpgradeTool_runtab

Collect the following information about the configuration of the target system:

- The directory where Marketing Platform is installed.
- Full path of the Interact configuration file (interact_configuration.xml). The file is in the conf directory under the Interact installation.

If you connect to the runtime environment system tables by using the web application server, collect the following information:

- · Host name
- Port
- · User name

- Password
- For WebLogic: Full path and file name of the WebLogic JAR file

If you connect to the runtime environment system tables by using JDBC, collect the following information:

- Java[™] class name for the JDBC driver
- JDBC URL
- · Additional properties that are required by the JDBC driver
- · Database user name and password

Collect the following information about the target runtime environment database:

- · Catalog (or database) containing the target runtime environment system tables
- Schema
- Whether the tables are configured for Unicode

Collect the following information about the Interact installation on the source system:

Version of Interact you are upgrading from

aciUpgradeTool_Irntab

Collect the following information about the configuration of the target system:

· The directory where Marketing Platform is installed

If you connect to the learning tables by using the web application server, collect the following information:

- Host name
- Port
- User name
- Password
- For WebLogic: Full path and file name of the WebLogic JAR file

If you connect to the learning tables by using JDBC, collect the following information:

- Java class name for the JDBC driver
- JDBC URL
- · Additional properties that are required by the JDBC driver
- Database user name and password

Collect the following information about the target learning database:

- Catalog (or database) containing the target learning tables
- · Schema
- Whether the tables are configured for Unicode

Collect the following information about the Interact installation on the source system:

Version of Interact you are upgrading from

aciUpgradeTool_crhtab

Collect the following information about the configuration of the target system:

The directory where Marketing Platform is installed

If you connect to the contact history tables for cross-session response by using the web application server, collect the following information:

- Host name
- Port
- User name
- · Password
- · For WebLogic: Full path and file name of the WebLogic JAR file

If you connect to the contact history tables for cross-session response by using JDBC, collect the following information:

- · Java class name for the JDBC driver
- JDBC URL
- · Additional properties that are required by the JDBC driver
- Database user name and password

Collect the following information about the target contact history tables for cross-session response database:

- Catalog (or database) containing the target contact history tables for cross-session response
- Schema
- Whether the tables are configured for Unicode

Collect the following information about the Interact installation on the source system:

Version of Interact you are upgrading from

aciUpgradeTool_usrtab

Collect the following information about the configuration of the target system:

· The directory where Marketing Platform is installed

If you connect to the user profile tables by using the web application server, collect the following information:

- Host name
- Port
- · User name
- · Password
- For WebLogic: Full path and file name of the WebLogic JAR file

If you connect to the user profile tables by using JDBC, collect the following information:

- Java class name for the JDBC driver
- JDBC URL
- · Additional properties that are required by the JDBC driver
- · Database user name and password

Collect the following information about the target user profile database:

- Catalog (or database) containing the target user profile tables
- Schema
- Whether the tables are configured for Unicode

Collect the following information about the Interact installation on the source system:

· Version of Interact you are upgrading from

Information required to upgrade the Interact design time environment

Gather information about your Interact design time installation before you run the Interact design time environment upgrade tool.

aciUpgradeTool

Collect the following information about the configuration of the target system:

- · The name of the partition you are upgrading.
- The directory where Marketing Platform is installed.
- Full path to the Campaign configuration file (campaign_configuration.xml). The Campaign configuration file is in the conf directory under your Campaign installation.

If you connect to the design time environment system tables by using the web application server, collect the following information:

- Host name
- Port
- · User name
- Password
- For WebLogic: Full path and file name of the WebLogic JAR file

If you connect to the design time environment system tables by using JDBC, collect the following information:

- Java class name for the JDBC driver
- JDBC URL
- Additional properties that are required by the JDBC driver
- · Database user name and password

Collect the following information about the target design time environment database:

- Catalog (or database) containing the target design time environment system tables
- · Schema
- Whether the tables are configured for Unicode

Collect the following information about the Interact installation on the source system:

· Version of Interact that you are upgrading from

Information for creating JDBC connections

Use default values when you create JDBC connections if specific values are not provided. For more information, see the application server documentation.

Note: If you are not using the default port setting for your database, make sure that you change it to the correct value.

WebLogic

Use the following values if your application server is WebLogic:

SQLServer

- Database Driver: Microsoft MS SQL Server Driver (Type 4) Versions: 2008, 2008R2
- Default port: 1433
- Driver class: com.microsoft.sqlserver.jdbc.SQLServerDriver
- Driver URL: jdbc:sqlserver:// <your_db_host>:<your_db_port>;databaseName=<your_db_name>
- Properties: Add user=<your_db_user_name>

Oracle 11 and 11 g

- · Driver: Other
- Default port: 1521
- Driver class: oracle.jdbc.OracleDriver
- Driver URL:

jdbc:oracle:thin:@<your_db_host>:<your_db_port>:<your_db_service_name> Enter the driver URL by using the format that is shown. IBM EMM applications do not allow the use of Oracle's RAC (Real Application Cluster) format for JDBC connections.

• Properties: Add user=<your db user name>

DB2®

- Driver: Other
- Default port: 50000
- Driver class: com.ibm.db2.jcc.DB2Driver
- Driver URL: jdbc:db2://<your db host>:<your db port>/<your db name>
- Properties: Add user=<your_db_user_name>

WebSphere

Use the following values if your application server is WebSphere:

SQLServer

- Driver: N/A
- Default port: 1433
- Driver class:

com.microsoft.sqlserver.jdbc.SQLServerConnectionPoolDataSource

Driver URL: N/A

In the Database Type field, select User-defined.

After you create the JDBC Provider and data source, go to the **Custom Properties** for the data source, and add, modify properties as follows.

- serverName=<your_SQL_server_name>
- portNumber =<SQL_Server_Port_Number>
- databaseName=<your_database_name>

Add the following custom property:

Name: webSphereDefaultIsolationLevel

Value: 1

Datatype: Integer

Oracle 11 and 11 g

• Driver: Oracle JDBC Driver

• Default port: 1521

• Driver class: oracle.jdbc.OracleDriver

• Driver URL:

jdbc:oracle:thin:@<your_db_host>:<your_db_port>:<your_db_service_name> Enter the driver URL by using the format that is shown. IBM EMM applications do not allow the use of Oracle's RAC (Real Application Cluster) format for JDBC connections.

DB2

- Driver: DB2 Universal JDBC Driver Provider
- Default port: 50000
- Driver class: com.ibm.db2.jcc.DB2Driver
- Driver URL: jdbc:db2://<your_db_host>:<your_db_port>/<your_db_name>

Chapter 3. Upgrading Interact

You can upgrade Interact by overwriting your existing Interact installation. If you cannot upgrade your current version of Interact directly, you must install Interact in a new location.

An in-place upgrade is one where you overwrite your existing installation. You can complete in-place upgrades for Interact version 8.5.0 and later.

To ensure that the installer automatically upgrades your existing Interact design time and runtime environment, select the same location as your old Interact design time and runtime location.

When in-place upgrades are not possible, you must install Interact in a new location. Because of the architectural changes between Interact version 8.5.0 and previous versions of Interact, there is no upgrade path from earlier versions of Interact.

Complete the following steps to upgrade Interact:

- 1. Back up the Interact runtime environment
- 2. Undeploy the Interact runtime server
- 3. Run the IBM EMM installer
- 4. Review and modify the SQL upgrade script
- 5. Set environment variables
- 6. Run the upgrade tool for the Interact design time environment
- 7. Run the upgrade tools for the Interact runtime environment
- 8. Redeploy the Interact runtime server in the web application server
- 9. Check the upgrade log

Backing up the Interact runtime environment

Before you upgrade Interact, back up all the files, system table database, and configuration settings that are used by the Interact runtime environment to prevent loss of data and configuration settings.

Note: You must back up only one Interact runtime server per server group.

If your Interact runtime environment installation requires any of the configuration settings from your old Interact version in addition to the new (default) settings in the new version, use the <code>configTool</code> utility to export the old Interact configuration parameters. Specify a different file name for the <code>exported.xml</code> file and note the location where you save it.

Undeploying the Interact runtime server

Before you upgrade Interact, you must undeploy the Interact runtime server so that the Interact installer can complete a clean and error-free upgrade.

You must undeploy the Interact runtime server so that the web application server releases the lock on the InteractRT.war file, which is updated during the Interact

upgrade. Releasing the lock on the interactRT.war file allows the Interact installer to cleanly update the interactRT.war file and register the new version of Interact in the IBM EMM console.

Complete the following steps to undeploy the Interact runtime server:

- 1. Follow the instructions in your web application server to undeploy the interactRT.war file, and save or activate all changes.
- 2. Shut down and restart the web application server after you undeploy the Interact runtime server to ensure that the lock on the InteractRT.war file is released.

Running the installer

You must run the IBM EMM installer to upgrade Interact. The IBM EMM installer starts the Interact installer during the process.

After you undeploy the Interact runtime environment, run the IBM EMM installer. When the installer prompts you to select the IBM EMM product that you want to install, select Interact. The Interact installer starts. The Interact installer detects that you have an earlier version installed and runs in upgrade mode.

You can install or upgrade the following Interact components:

- Interact Runtime Environment
- · Interact Design Time Environment
- Interact Extreme Scale Server

Install the Interact Extreme Scale Server component, if you want to improve the performance of the Interact runtime environment. The Interact runtime environment uses IBM WebSphere eXtreme Scale caching to enhance performance. For more information, see the *IBM Interact Tuning Guide*.

After you finish upgrading Interact, you must deploy the Interact runtime environment on WebSphere Application Server, or on WebLogic. You do not need to deploy the Interact design time environment. The design time environment is automatically deployed with the Campaign WAR or EAR file.

Reviewing and modifying the SQL upgrade script

If your Interact runtime environment includes customizations to the runtime system tables that modified the default Data Definition Language (DDL) included with Interact, you must modify the default SQL upgrade script for your database to match your customizations.

Common customizations include changes to support multiple audience levels or using views of tables. You can review the data dictionaries for the new versions of IBM products to confirm that column sizes map correctly and that foreign key constraints from additional products do not conflict.

The aci runtab upgrd and the aci usrtab upgrd are the SQL upgrade scripts that most likely require revisions.

Important: You must complete the changes before you run the Interact upgrade

Complete the following steps to review and modify the SQL upgrade script:

- 1. Locate the upgrade script for your database type. The scripts are installed in the /ddl/Upgrades or /ddl/Upgrades/Unicode directory under your Interact installation after you run the IBM EMM installer in upgrade mode.
- Ensure that your database schema matches the Data Definition Language (DDL) included with Interact. If your database schema does not match the DDL in the upgrade script, edit the script for your database type to match your environment.

The following example shows the required modifications to the <code>aci_runtab_upgrd</code> SQL upgrade script to support the Household audience level: Your existing Interact design time environment contains an additional audience level called Household. To support the Household audience level, your Interact runtime environment database contains tables named HH_CHStaging and HH_RHStaging.

Required changes to the upgrade script:

- a. Locate the code in the SQL upgrade script that updates the response history and treatment sizes for the Customer audience level and replicate it for your Household audience level. Change the table names in the SQL statements to the appropriate names for your Household audience level.
- b. You must also revise the SQL script to support the data type change for the SeqNum column in the UACI_RHStaging table. The value of the SeqNum is a sequential number across all response history staging tables. The next value that is used is tracked by the NextID column in the UACI_IdsByType table, where TypeID is 2. For example, you have three audience levels, customer, household, and account. In the customer response history staging table, the highest SeqNum is 50. In the household response history staging table, the highest SeqNum is 75. In the account response history staging table, the highest SeqNum is 100. Therefore, you must alter the SQL to set the NextID for TypeID = 2 in the UACI_IdsByType to 101.

The following example SQL statements show the required additions to the **aci_runtab_upgrd_sqlsvr.sql** script for a SQL Server database that contains the Household audience level. The text that is added to support the Household audience level is in bold:

```
ALTER TABLE UACI_RHStaging ADD RTSelectionMethod int NULL

go

ALTER TABLE UACI_RHStaging ADD RTSelectionMethod int NULL

go

ALTER TABLE HH_CHStaging ADD RTSelectionMethod int NULL

go

ALTER TABLE HH_RHStaging ADD RTSelectionMethod int NULL

go

insert into UACI_IdsByType (TypeID, NextID) (select 2,
    IDENT_CURRENT('UACI_RHStaging') + IDENT_CURRENT('HH_RHStaging')
    + IDENT_INCR( 'UACI_RHStaging'))

go

select * into UACI_RHStaging_COPY from UACI_RHStaging

go

DROP TABLE UACI_RHStaging
```

```
CREATE TABLE UACI RHStaging (
      SeqNum
                            bigint NOT NULL,
      TreatmentCode
                            varchar(512) NULL,
      CustomerID
                            bigint NULL,
      ResponseDate
                            datetime NULL,
      ResponseType
                            int NULL,
                            varchar(64) NULL,
      ResponseTypeCode
                            bigint NOT NULL
      Mark
                                          DEFAULT 0,
      UserDefinedFields
                            char(18) NULL,
 RTSelectionMethod
                     int NULL,
      CONSTRAINT iRHStaging PK
              PRIMARY KEY (SeqNum ASC)
)
qo
insert into UACI_RHStaging (SeqNum, TreatmentCode, CustomerID, ResponseDate,
ResponseType, ResponseTypeCode, Mark, UserDefinedFields, RTSelectionMethod)
  (select SeqNum, TreatmentCode, CustomerID, ResponseDate, ResponseType,
 ResponseTypeCode, Mark, UserDefinedFields, RTSelectionMethod from
 UACI RHStaging COPY)
DROP TABLE UACI RHStaging COPY
DROP TABLE HH_RHStaging
CREATE TABLE HH_RHStaging (
                            bigint NOT NULL,
      SeqNum
      TreatmentCode
                            varchar(512) NULL,
      HouseholdID
                            bigint NULL,
      ResponseDate
                            datetime NULL,
      ResponseType
                            int NULL,
      ResponseTypeCode
                            varchar(64) NULL,
      Mark
                            bigint NOT NULL
                                          DEFAULT 0,
      UserDefinedFields
                            char(18) NULL,
 RTSelectionMethod
                       int NULL,
      CONSTRAINT iRHStaging_PK
              PRIMARY KEY (SeqNum ASC)
insert into HH_RHStaging (SeqNum, TreatmentCode, HouseHoldID, ResponseDate,
 ResponseType, ResponseTypeCode, Mark, UserDefinedFields, RTSelectionMethod)
  (select SeqNum, TreatmentCode, HouseHoldID, ResponseDate, ResponseType,
 ResponseTypeCode, Mark, UserDefinedFields, RTSelectionMethod from
 HH_RHStaging_COPY)
DROP TABLE HH_RHStaging_COPY
For DB2 and Oracle databases, the following statement is used for inserting
values into the UACI_IdsByType table:
INSERT into UACI_IdsByType (TypeID, NextID)
 (select 2, COALESCE(max(a.seqnum)+1,1)
 + COALESCE(max(b.seqnum)+1,1)
 from UACI RHSTAGING a, ACCT UACI RHSTAGING b);
If you have multiple audiences, you must add the following sections to the
aci_usrtab_upgrd SQL script for each audience level:
ALTER TABLE HH ScoreOverride ADD
       OverrideTypeID
                             int NULL,
                             varchar(64) NULL,
       CellCode
```

Setting environment variables

Set environment variables in the setenv file to upgrade the Interact design time and runtime environment.

Edit the setenv file to set the environment variables that are required by the Interact upgrade tools.

For the Interact design time environment, the file is in the <code>Interact_Design_Environment_Install_Directory/interactDT/tools/upgrade</code> directory under the Interact design time environment installation. For the Interact runtime environment, the file is in the

Interact_Runtime_Environment_Install_Directory/tools/upgrade directory under the Interact runtime environment installation.

For more information, read the comments in the setenv file.

The following table describes the environment variables that you must set for the Interact design time upgrade tools in the setenv file:

Table 8. Environment variables for the Interact design time environment

Variable	Description
JAVA_HOME	The root directory of the JDK used by your new Campaign installation.
	For example, <campaign_home>/jre</campaign_home>
JDBCDRIVER_CP	The path to the directory that contains the JDBC driver. JDBCDRIVER_CP is the default path to the JDBC driver; you can override the path when you run the upgrade tool. Specify the same JDBC driver that was used while installing Marketing Platform.
JDBCDRIVER_CLASS	The class for the JDBC driver. JDBCDRIVER_CLASS is the default class to the JDBC driver; you can override the class when you run the upgrade tool.
JDBCDRIVER_URL	The URL for the JDBC driver. JDBCDRIVER_URL is the default URL for the JDBC driver; you can override the URL when you run the upgrade tool.

Table 8. Environment variables for the Interact design time environment (continued)

Variable	Description
ERROR_MSG_LEVEL	The desired logging level that has the following valid values, which are listed from most to least verbose:
	• DEBUG
	• INFO
	• ERROR
	• FATAL
LOG_TEMP_DIR	The directory where you want the migration tool to create the log files.
LOG_FILE_NAME	The name of the log file for the upgrade tool.

The following table describes the environment variables that you must set for the Interact runtime upgrade tools in the setenv file:

Table 9. Environment variables for the Interact runtime environment

Variable	Description
JAVA_HOME	The root directory of the JDK used by your new Interact installation.
JDBCDRIVER_CP	The path to the directory that contains the JDBC driver. JDBCDRIVER_CP is the default path to the JDBC driver; you can override the path when you run the upgrade tool.
JDBCDRIVER_CLASS	The class for the JDBC driver. JDBCDRIVER_CLASS is the default class to the JDBC driver; you can override the class when you run the upgrade tool.
JDBCDRIVER_URL	The URL for the JDBC driver. JDBCDRIVER_URL is the default URL for the JDBC driver; you can override the URL when you run the upgrade tool.
ERROR_MSG_LEVEL	The desired logging level that has the following valid values, which are listed from most to least verbose: • DEBUG • INFO • ERROR • FATAL
LOG_TEMP_DIR	The directory where you want the migration tool to create the log files.
LOG_FILE_NAME	The name of the log file for the upgrade tool.

The environment variables for SSL upgrade are required for both the Interact design time and runtime environments.

The following table describes the environment variables that you must set to support SSL upgrade for the design time and runtime environment:

Table 10. Environment variables to support SSL upgrade (runtime and design time environments)

Variable	Description
IS_WEBLOGIC_SSL	Should the connection to the server of the target system be through SSL? The valid values are YES and NO. If the value is set to NO, you do not need to set the remaining SSL properties.
BEA_HOME_PATH	The path to the location where the WebLogic server of the target system is installed. You must point to the license.bea file in this path. If you install Interact in a distributed environment where the WebLogic server of the target system is not available locally to the script, copy the license.bea file locally to some folder, and specify the path to that folder by using this environment variable.
SSL_TRUST_KEYSTORE_FILE_PATH	The path of the trust store that is used to configure SSL in the WebLogic server of the target system. The trusted certificates are saved at this location. The SSL_TRUST_KEYSTORE_FILE_PATH variable is used for SSL handshake.
SSL_TRUST_KEYSTORE_PASSWORD	The password of the trust store that is used to configure SSL in the WebLogic server of the target system. If there is no password, set it to "" or nothing. The SSL_TRUST_KEYSTORE_PASSWORD variable is used for SSL handshake.

Running the Interact upgrade tools

Run the upgrade tool for the design time environment to update the Interact tables in the Campaign system tables. Run the upgrade tools for the runtime environment to update the Interact run time, learning, contact history, response history, and user profile tables.

Running the upgrade tool for the design time environment

Before you run the upgrade tool, start the web application server on the target system.

The Interact design time environment uses the Campaign system tables as the database.

When running the upgrade tool for the design time environment, you can stop the upgrade at any prompt by typing abort.

The user who runs the upgrade tool must have access to the appropriate database client executable files (sqlplus, db2, or osql) for the Campaign system tables data source.

The latest version of the upgrade tool (aciUpgradeTool) is in the /interactDT/tools/upgrade directory under your Interact design time environment installation. Enter the requested information at the prompts to upgrade your system tables for the new version of Interact. When the tool completes successfully, your upgrade process is complete.

If you have multiple partitions, configure and run the upgrade tool once for each partition.

Running the upgrade tools for the runtime environment

Before you run the upgrade tools, start the web application server on the target system.

The Interact runtime environment uses the Interact system tables as the database.

When running the upgrade tools for the runtime environment, you can stop the upgrade at any prompt by typing abort.

The latest versions of the upgrade tools are in the /tools/upgrade directory under your Interact runtime environment installation. Enter the requested information at the prompts to upgrade your tables for the new version of Interact. When the tool completes successfully, your upgrade process is complete.

Important: Run the SQL scripts once for each server group.

Run the tools in the following order to upgrade the Interact runtime environment:

- 1. Run aciUpgradeTool_runtab to update the systemTablesDataSource and the Interact runtime configuration properties.
- 2. If you are using built-in learning, run aciUpgradeTool_1rntab to update the learningTablesDataSource.
- 3. If you are using cross-session response tracking, modify the /tools/upgrade/conf/ACIUpgradeTaskList_crhtab.properties file if necessary, and then run aciUpgradeTool_crhtab to update the contactAndResponseHistoryDataSource.
 - You must modify the ACIUpgradeTaskList_crhtab.properties file if you are upgrading from Interact version 8.x and if the Interact runtime data source (as specified in the **contactAndResponseHistoryDataSource** configuration property under the **Interact** | **general** category) is not the same as the Campaign system tables data source.
- 4. If you are using the scoreOverride or defaultOffers tables, run aciUpgradeTool_usrtab to update the prodUserDataSource.

After you finish upgrading the Interact design time and runtime environment, redeploy the newly installed version of the Interact runtime environment in your web application server.

Redeploying the Interact runtime server in the web application server

After you finish upgrading Interact, redeploy the newly installed version of the Interact runtime server in the WebSphere Application Server, or on WebLogic.

Upgrade log

When you upgrade Interact, the Interact upgrade tools write processing details, warnings, and errors to the aci_upgrade.log file. Check the log file to verify that you have an error-free and clean upgrade.

By default, the name of the log file is aci_upgrade.log and the log file is in the logs directory, which is in the same directory as the Interact upgrade tools. The

location of the log file and level of verbosity are specified in the setenv file. You can modify the setenv file before you run the Interact upgrade tools.

Upgrading partitions

For the design time environment, if you have multiple partitions, you must run the upgrade tool once for each partition. For the runtime environment, if you have multiple partitions, run the upgrade tool once on each runtime server.

Partitions must have the same names in the source and target versions of Interact.

Creating and populating the Interact system tables

If you have not created and populated the system tables during the installation process, use your database client to run the Interact SQL scripts against the appropriate database or to create and populate the Interact runtime environment, design time environment, learning, user profile, and contact and response tracking data sources.

Design time environment tables

Before you can enable the Interact design time environment in Campaign, you must add some tables to your Campaign system table database.

The SQL scripts are in the <code>Interact_HOME/interactDT/ddl</code> directory under your Interact design time environment installation.

If your Campaign system tables are configured for Unicode, use the appropriate script that is in the <code>Interact_HOME/interactDT/ddl</code> directory in your Interact design time environment. There are no Unicode equivalent scripts for the <code>aci_populate_systab</code> scripts that are used to populate the design time environment tables.

Use the scripts in the following table to create the Interact design time environment tables:

Table 11. Scripts for creating design time environment tables

Data source type	Script name
IBM DB2	aci_systab_db2.sq1
	The user table space and system temporary table space where the Campaign system tables exist must each have a page size of 32K or greater.
Microsoft SQL Server	aci_systab_sqlsvr.sql
Oracle	aci_systab_ora.sql

Use the scripts in the following table to populate the Interact design time environment tables:

Table 12. Scripts for populating design time environment tables

Data source type	Script name
IBM DB2	aci_populate_systab_db2.sql

Table 12. Scripts for populating design time environment tables (continued)

Data source type	Script name
Microsoft SQL Server	aci_populate_systab_sqlsvr.sql
Oracle	aci_populate_systab_ora.sql

Runtime environment tables

The SQL scripts are in the <Interact_HOME>/ddl directory under your Interact installation.

If your Interact runtime tables are configured for Unicode, use the appropriate script that is in the <Interact_HOME>/ddl/Unicode directory to create the runtime tables. There are no Unicode equivalent scripts for the aci_populate_runtab scripts that are used to populate the runtime tables.

You must run the SQL scripts once for each server group data source.

Use the scripts in the following table to create the Interact runtime tables:

Table 13. Scripts for creating runtime environment tables

Data source type	Script name
IBM DB2	aci_runtab_db2.sq1
	The user table space and system temporary table space where the Interact runtime environment tables exist must each have a page size of 32K or greater.
Microsoft SQL Server	aci_runtab_sqlsvr.sql
Oracle	aci_runtab_ora.sql

Use the scripts in the following table to populate the Interact runtime tables:

Table 14. Scripts for populating runtime environment tables

Data source type	Script name
IBM DB2	aci_populate_runtab_db2.sql
	You must use the following command when you run the script: db2 +c -td@ -vf aci_populate_runtab_db2.sql
Microsoft SQL Server	aci_populate_runtab_sqlsvr.sql
Oracle	aci_populate_runtab_ora.sql

Learning tables

You can use SQL scripts to create and populate tables for optional features such as learning, global offers, score override, and contact and response history tracking.

All the SQL scripts are in the <Interact HOME>/ddl directory.

Note: The built-in learning module requires a separate data source from the Interact runtime environment tables. For the built-in learning module, you must

create a data source to hold all the learning data. The separate data source can communicate with all server groups, which means you can learn from your different touchpoints at the same time.

If your Interact runtime tables are configured for Unicode, use the appropriate script that is in the <Interact_HOME>/ddl/Unicode directory to create the learning tables.

Use the scripts in the following table to create the Interact learning tables:

Table 15. Scripts for creating learning tables

Data source type	Script name
IBM DB2	aci_lrntab_db2.sql
Microsoft SQL Server	aci_lrntab_sqlsvr.sql
Oracle	aci_lrntab_ora.sql

Contact and response history tables

You must run SQL scripts against the contact history tables if you want to use cross-session response tracking or the advanced learning feature.

All the SQL scripts are in the Interact installation directory.

Note: Using contact and response history features requires a separate data source from the Interact runtime environment tables. To use the contact and response history features, you must create a data source to reference contact and response data. The separate data source can communicate with all server groups.

If your contact history tables are configured for Unicode, use the appropriate script that is in the Unicode directory under the same location as the standard script to create the learning tables.

Use the scripts in the following table to create the Interact contact and response history tables:

Table 16. Scripts for creating contact history tables

Data source type	Script name
IBM DB2	• aci_crhtab_db2.sql in the <interact_home>/ddl/ directory. • aci_lrnfeature_db2.sql in the <interact_home>/interactDT/ddl/ acifeatures/ directory.</interact_home></interact_home>
Microsoft SQL Server	• aci_crhtab_sqlsvr.sql in the <interact_home>/ddl/ directory. • aci_lrnfeature_sqlsvr.sql in the <interact_home>/interactDT/ddl/ directory.</interact_home></interact_home>
Oracle	 aci_crhtab_ora.sql in the <interact_home>/ddl/ directory.</interact_home> aci_lrnfeature_ora.sql in the <interact_home>/interactDT/ddl/ directory.</interact_home>

Chapter 4. Deploying Interact

You must deploy the Interact runtime environment for every instance of the runtime server that you install. The Interact design time environment is deployed automatically with the Campaign EAR or WAR file.

You must know how to work with your web application server. Consult your web application server documentation for details.

Deploying the design time environment

After you install Interact, the design time environment is deployed automatically when you deploy Campaign. After you deploy the Campaign.war file, configuration procedures automatically enable the Interact design time environment in Campaign. The Campaign.war file is in the Campaign installation directory.

Deploying the runtime environment

You must deploy the Interact runtime environment by deploying the InteractRT.war file for every instance of the runtime server that you install or upgrade. For example, if six instances of a runtime server exist, you must install and deploy the Interact runtime environment six times. You can deploy the runtime environment on the same server as the design time environment, or you can deploy the Interact runtime environment on a separate server. The InteractRT.war is in the Interact installation directory.

Note: When you deploy the Interact runtime environment, the context root must be set to /interact. Do not use any other value for the context root, or navigation to the runtime environment, and within Interact runtime links and pages, do not operate correctly.

Deploying Interact on WebSphere Application Server

You can deploy Interact runtime environment on supported versions of WebSphere Application Server (WAS) from a WAR file or EAR file. The Interact design time environment is deployed automatically with the Campaign EAR or WAR file.

Note: Make sure that multiple language encoding is enabled in WAS.

Deploying Interact on WAS from a WAR file

You can deploy the Interact application from a WAR file on WAS.

Complete the following tasks before you deploy Interact:

- Confirm that your version of WebSphere meets the requirements in the *Recommended Software Environments and Minimum System Requirements* document, including any necessary fix packs or upgrades.
- Confirm that you created the data sources and database provider in WebSphere.

To deploy the Interact application WAR file on WAS, complete the following steps:

1. Go to the WebSphere Integrated Solutions Console.

- 2. If your system tables are in DB2, click the data source that you created. Go to the Custom Properties for the data source.
- 3. Select the Custom properties link.
- 4. Set the value for the **resultSetHoldability** property to 1. If you do not see the resultSetHoldability property, create the resultSetHoldability property and set its value to 1.
- 5. Go to Applications > Application Types > WebSphere enterprise applications and click Install.
- 6. In the Preparing for the application installation window, select the Detailed -Show all options and parameters check box and click Next.
- 7. Click **Continue** to see the Install New Application wizard.
- 8. Accept the default settings on the windows of the Install New Application wizard except the following windows:
 - In step 1 of the Install New Application wizard, select the **Precompile JavaServer Pages files** check box.
 - In step 3 of the installation wizard, set the **JDK Source Level** to 16.
 - In step 8 of the installation wizard, set the **Context Root** to /interact.
- 9. In the left navigation panel of WebSphere Integrated Solutions Console, navigate to Applications > Application Types > WebSphere enterprise applications.
- 10. In the Enterprise Applications window, click the InteractRT.war file.
- 11. In the Web Module Properties section, click Session Management and select the following check boxes:
 - · Override session management
 - Enable Cookies
- 12. Click Enable Cookies, and in the Cookie name field, enter a unique cookie name.
- 13. In the **Applications > Enterprise Applications** section of the server, select the WAR file that you deployed.
- 14. In the Detail Properties section, select Class loading and update detection.
- 15. In the Class loader order section, select the Classes loaded with local class loader first (parent last) option.
- 16. Start your deployment.

Deploying Interact on WAS from an EAR file

You can deploy the Interact application on WAS when Interact is a module within an EAR file.

You can deploy Interact by using an EAR file if you included Interact in an EAR file when you ran the IBM EMM installer.

Before you deploy Interact:

- Confirm that your version of WebSphere meets the requirements in the Recommended Software Environments and Minimum System Requirements document, including any necessary fix packs or upgrades.
- Confirm that you created the data sources and database provider in WebSphere.

To deploy Interact from an EAR file onto WebSphere Application Server, complete the following steps:

1. Go to the WebSphere Integrated Solutions Console.

- 2. If your system tables are in DB2, click the data source that you created. go to the Custom Properties for the data source. .
- 3. Select the Custom properties link.
- 4. Set the value for the **resultSetHoldability** property to 1. If you do not see the **resultSetHoldability** property, create the **resultSetHoldability** property and set its value to 1.
- 5. Go to Applications > Application Types > WebSphere enterprise applications and click Install.
- 6. In the Preparing for the application installation window, select the **Detailed Show all options and parameters** check box and click **Next**.
- 7. Click **Continue** to see the Install New Application wizard.
- 8. Accept the default settings on the windows of the Install New Application wizard except the following windows:
 - In step 1 of the Install New Application wizard, select the **Precompile JavaServer Pages files** check box.
 - In step 3 of the installation wizard, set the **JDK Source Level** to 16.
 - In step 8 of the installation wizard, set the **Context Root** to /interact.
- 9. In the left navigation panel of WebSphere Integrated Solutions Console, navigate to Applications > Application Types > WebSphere enterprise applications.
- 10. In the Enterprise Applications window, select the EAR file that you want to deploy.
- 11. In the **Web Module Properties** section, click **Session Management** and select the following check boxes:
 - · Override session management
 - Enable Cookies
- 12. Click **Enable Cookies**, and in the **Cookie name** field, enter a unique cookie name.
- 13. In the Detail Properties section, select Class loading and update detection.
- 14. In the Class loader order section, select the Classes loaded with local class loader first (parent last) option.
- 15. Start your deployment.
 - For more information about WebSphere Application Server version 8, see Welcome to the WebSphere Application Server information center.

Deploying Interact on WebLogic

You can deploy IBM EMM products on WebLogic.

Use the following guidelines when you deploy Interact on WebLogic:

- IBM EMM products customize the JVM used by WebLogic. You might need to create a WebLogic instance dedicated to IBM EMM products if you encounter JVM-related errors.
- Verify that the SDK selected for the WebLogic domain you are using is the Sun SDK by looking in the startup script (startWebLogic.cmd) for the JAVA_VENDOR variable. It should be set to: JAVA_VENDOR=Sun . If it is set to JAVA_VENDOR=BEA , JRockit has been selected. JRockit is not supported. To change the selected SDK, refer to the WebLogic documentation.
- Deploy the IBM EMM products as web application modules.

 On UNIX systems, you must start WebLogic from the console to allow correct rendering of graphical charts. The console is usually the machine on which the server is running. In some cases, however, the web application server is set up differently.

If a console is not accessible or does not exist, you can emulate a console using Exceed. You must configure Exceed so that your local Xserver process connects to the UNIX machine in root window or single window mode. If you start the web application server using Exceed, you must keep Exceed running in the background to allow the web application server to continue running. Please contact IBM Technical Support for detailed instructions if you encounter problems with chart rendering.

Connecting to the UNIX machine via telnet or SSH always causes problems rendering charts.

- If you are configuring WebLogic to use the IIS plug-in, review the WebLogic documentation.
- If deploying in a production environment, set the IVM memory heap size parameters to 1024 by adding the following line to the setDomainEnv script: Set MEM ARGS=-Xms1024m -Xmx1024m -XX:MaxPermSize=256m

For WebLogic 11g, make the following changes to the campaign.war file:

- 1. If you also use AIX 7.1 with WL11g, remove the xerces Impl.jar file from the unpackaged WEB INF/lib directory.
- 2. Build the campaign.war file to include the changes that you made before deploying the war file.

Verifying the Interact installation

You must verify whether Interact is correctly installed by confirming that you can access the interactive channels and the Interact runtime URL.

- 1. To verify that the Interact design time environment is installed, log in to the IBM EMM console and confirm that you can access Campaign > Interactive Channels.
- 2. Complete the following steps to verify that the Interact runtime environment is correctly installed:
 - a. Access the Interact runtime URL by using a supported web browser. The runtime URL is:

http://host.domain.com:port/interact/jsp/admin.jsp

where host.domain.com is the computer where Interact is installed and port is the port number on which the Interact application server is listening.

b. Click Interact Initialization Status.

If the Interact server is running correctly, Interact responds with the following message:

System initialized with no errors!

If the initialization fails, review the installation procedure and confirm that you followed all the instructions.

Chapter 5. Uninstalling Interact

Run the Interact uninstaller to uninstall Interact. When you run the Interact uninstaller, the files that were created during the installation process are removed. For example, files such as configuration files, installer registry information, and user data are removed from the computer.

When you install IBM EMM products, an uninstaller is included in the Uninstall_Product directory, where Product is the name of your IBM product. On Windows, an entry is also added to the **Add or Remove Programs** list in the Control Panel.

If you manually remove the files in your installation directory instead of running the uninstaller, the result might be an incomplete installation if you later reinstall an IBM product in the same location. After uninstalling a product, its database is not removed. The uninstaller only removes default files that are created during installation. Any file that is created or generated after installation is not removed.

In addition to the general instructions for uninstalling IBM EMM products, follow the guidelines when you uninstall Interact:

- If you have multiple Interact runtime installations using the same Marketing Platform installation, you must remove network connectivity for the Interact runtime workstation before you run the uninstaller. Failure to do so uninstalls the configuration data for all the other Interact runtime installations from Marketing Platform.
- You can safely ignore any warnings about failure to unregister with Marketing Platform.
- You can export a copy of your configuration as a precaution before uninstalling Interact.
- If you uninstall the Interact design time environment, after you run the uninstaller, you may need to manually unregister Interact. Use the **configtool** utility to unregister <code>full_path_to_Interact_DT_installation_directory\</code> interactDT\conf\interact_navigation.xml.

Note: On UNIX, the same user account that installed Interact must run the uninstaller.

Complete the following tasks to uninstall Interact:

- 1. If you have deployed the Interact web application, undeploy the web application from WebSphere or WebLogic.
- 2. Shut down WebSphere or WebLogic.
- 3. Stop the processes that are related to Interact.
- 4. If the ddl directory exists in the product installation directory, run the scripts that are provided in the ddl directory to drop tables from the system table database.
- 5. Complete one of the following steps to uninstall Interact:
 - Double-click the Interact uninstaller that exists in the Uninstall_*Product* directory. The uninstaller runs in the mode in which you installed Interact.

• In a command-line window, navigate to the directory where the uninstaller exists, and run the following command to uninstall Interact by using the console mode:

Uninstall_Product -i console

• In a command-line window, navigate to the directory where the uninstaller exists, and run the following command to uninstall Interact by using the silent mode:

Uninstall_Product -i silent

When you uninstall Interact by using the silent mode, the uninstallation process does not present any dialogs for user interaction.

Note: If you do not specify an option for uninstalling Interact, the Interact uninstaller runs in the mode in which Interact is installed.

Chapter 6. The configTool utility

The properties and values on the Configuration page are stored in the system tables. You can use the configTool utility to import and export configuration settings to and from the system tables.

When to use configTool

You might want to use configTool for the following reasons.

- To import partition and data source templates that are supplied with Campaign, which you can then modify and duplicate by using the Configuration page.
- To register (import configuration properties for) IBM EMM 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 EMM.
- 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 by 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 contains the configuration properties and their values. For best results, either create backup copies of these tables, or export your existing configurations by using configTool and back up the resulting file so you have a way to restore your configuration if you make an error when you use configTool to import.

Syntax

```
configTool -d -p "elementPath" [-o]
configTool -i -p "parent ElementPath" -f importFile [-o]
configTool -x -p "elementPath" -f exportFile
configTool -vp -p "elementPath" -f importFile [-d]
configTool -r productName -f registrationFile [-o] configTool -u
productName
```

Commands

```
-d -p "elementPath" [o]
```

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. You can obtain them by going to the Configuration page, selecting the wanted category or property, and looking at the path that is displayed in parentheses in the right pane. Delimit a path in the configuration property hierarchy by using the | character, and surround the path with double quotation marks.

Note the following.

- Only categories and properties within an application can be deleted by 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.

When you use -d with the -vp command, the configTool deletes any child nodes in the path you specify if those nodes are not included in the XML file you specify.

-i -p "parentElementPath" -f importFile [o]

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. You can obtain them by going to the Configuration page, selecting the required category or property, and looking at the path that is displayed in parentheses in the right pane. Delimit a path in the configuration property hierarchy by using the character, and surround the path with double quotation marks.

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 that is displayed in parentheses in the right pane. Delimit a path in the configuration property hierarchy by using the character, and surround the path with double quotation marks.

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.

-vp -p "elementPath" -f importFile [-d]

This command is used mainly in manual upgrades, to import configuration properties. If you applied a fix pack that contains a new configuration property, and you then upgrade, importing a configuration file as part of a manual upgrade process can override values that were set when the fix pack was applied. The -vp command ensures that the import does not override previously set configuration values.

Important: After you use the configTool utility with the -vp option, you must restart the web application server on which Marketing Platform is deployed so the changes are applied.

When you use -d with the -vp command, the configTool deletes any child nodes in the path you specify if those nodes are not included in the XML file you specify.

-r productName -f registrationFile

Register the application. The registration file location can be relative to the tools/bin directory or can 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 names that are listed above.

Note the following.

- When you use the -r command, the registration file must have <application> as the first tag in the XML.
 - Other files can be provided with your product that you can use to insert configuration properties into the Marketing Platform database. For these files, use the -i command. Only the file that has the <application> tag as the first tag can be used with the -r command.
- 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 Marketing Platform Installation Guide.
- After the initial installation, to re-register products other than the Marketing Platform, use configTool with the -r command and -o to overwrite the existing properties.

The configTool utility uses product names as parameters with the commands that register and unregister products. With the 8.5.0 release of IBM EMM, many product names changed. However, the names that are 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.

Table 17. Product names for configTool registration and unregistration

Product name	Name used in configTool	
Marketing Platform	Manager	
Campaign	Campaign	
Distributed Marketing	Collaborate	
eMessage	emessage	
Interact	interact	
Contact Optimization	Optimize	
Marketing Operations	Plan	

Table 17. Product names for configTool registration and unregistration (continued)

Product name	Name used in configTool	
CustomerInsight	Insight	
Digital Analytics for On Premises	NetInsight	
Opportunity Detection	Detect	
Leads	Leads	
Interaction History	InteractionHistory	
Attribution Modeler	AttributionModeler	
IBM SPSS® Modeler Advantage Enterprise Marketing Management Edition	SPSS	
Digital Analytics	Coremetrics	

-u productName

Unregister an application that is specified by *productName*. You do not have to include a path to the product category; the product name is sufficient, and it is required. The process removes all properties and configuration settings for the product.

Options

-0

When used with -i or -r, it overwrites an existing category or product registration (node).

When used with -d, you can 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 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 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, by using a file named app_config.xml 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

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- Detailed error messages that you see when the issue occurs.
- Detailed steps to reproduce the issue.
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System information

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