MCA Services Build Process Guide

Version 2005

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1 What's New in This Release

What's New in MCA Services Build Process Guide, Version 2005

Table 1 lists changes in this version of the documentation to support release 2005 of the software.

Table 1. What's New in MCA Services Build Process Guide, Version 2005

Table 1. Table Title Here

Topic	Description
Configuring ANT_HOME	Removed the section on configuring ANT_HOME. This property does not need to be configured by the user because it is auto-configured.
Build Process Platform, page 9	Added reference to the *Siebel Foundation Services System Requirements and Supported Platforms* document.
MCA Services Directory Structure, page 9	Updated the description of the resource files supplied in the <installation directory>\FoundationServices\Common directory
Prerequisites for the WebLogic Build Process, page 11	Added configuration of the JAVA_HOME variable in ant.bat. Added configuration of the weblogic.home variable in ant.bat.
Running the Automated WebLogic Build Process, page 11	The build process command ant has been replaced with build weblogic. The build script build.xml has been replaced with build.cmd.
Running the Automated WebSphere Build Process, page 13	Updated the build process to support WebSphere 5.1.1. The build process command ant has been replaced with build [websphere-db2 | websphere-orcl]. The build script build.xml has been replaced with build.cmd.

2 About the Build Process

This build guide covers the build process for MCA Services on supported platforms. The terms MCA Services and Foundation Services are interchangeable in this documentation. MCA Services encompasses the Financial Process Integrator engine and the Statemachine. This guide is divided into the following chapters:

- Build Process Prerequisites
- WebLogic 8.1 Build Process
- WebSphere 5.1.1 Build Process

The build scripts for each environment will create an Enterprise Application and deployment descriptors for that environment.

3 Build Process Prerequisites

Build Process Platform

The build scripts are supported on the Windows platform and require a J2SE Development Kit (JDK) version 1.4 or higher.

NOTE: For all supported platform version information, including the supported database, application server and third-party software versions, refer to the *Siebel Foundation Services System Requirements and Supported Platforms* document. The SRSP document is available on Siebel SupportWeb (http://supportweb.siebel.com) or from your Siebel representative.

Extracting the Build Files

The MCA Services installation pack for the appropriate target application server and database needs to be extracted before running the build process.

MCA Services Directory Structure

The files contained in the installation packs will be extracted to <installation directory>\FoundationServices\ with the following directory structure:

Table 2. MCA Services Directory Structure

Directory	Description
3rdParty\	Contains third-party libraries required for supporting MCA Services
Build\	Contains the command shell, ANT scripts, and other required resources for generating a deployable EAR file. The build.properties file in the <installation directory>\FoundationServices\Common directory is used to specify the target environment as well as the build folder (<installation directory>\FoundationServices\build_tmp by default) location. For each supported target environment, the properties files are preset with the appropriate values.
build_tmp\	Contains the deployable EAR file built using the provided build scripts. This directory is also used for temporary files produced during execution of the build script. The deployable EAR file is output to: <installation directory>\FoundationServices\build_tmp\build_releas

Directory	Description
	e\siebel.ear
Common\	Contains common MCA Services library JAR files such as bfa-utils, mca.jar, and statemachine-ext. Also contains the property files including BankframeResource.properties and BankframeMessages.properties
deploy\	Contains the pre-built and deployable MCA Services EAR file
deploy\database\	Contains the SQL scripts for the target database

MCA Services Signed JAR Files

The MCA Services installation pack contains several important class jar files contained in the <installation directory>\Foundation Services\Common\lib folder.

The following jar files contain compiled classes only - no source code. These jar files have been signed with a digital certificate using the Jar Signer tool. This is intended to aid the verification of jar versions. Signing a jar file prevents any changes being made to it. This means that Siebel Systems can be sure that the version of a jar file being used on a customer site corresponds exactly to the version originally supplied.

Table 3. MCA Services Signed JAR Files

Signed JAR File	Description
mca.jar	This is the jar of MCA Services classes.
bfa-utils.jar	This jar file contains utility classes.
statemachine-ext.jar	This jar file contains extension classes for the StateSoft Statemachine framework supporting the Siebel Screen Orchestrator tool.

4 WebLogic 8.1 Build Process

Prerequisites for the WebLogic Build Process

- WebLogic 8.1.0 must be installed on the build machine.
- The JAVA_HOME variable in <installation directory>\FoundationServices\Build\java\ant\bin\ant.bat must be configured to point to the WebLogic JDK.
- The JAVA_HOME variable in <installation directory>\Foundation Services\Build\java\javaenv.bat must be configured to point to the WebLogic JDK.
- The weblogic.home variable in <installation directory>\Foundation Services\Common\build.properties must be uncommented (remove the # symbol) and set to the appropriate WebLogic root directory, as shown in the example configuration below.

  ```
  weblogic.home=/bea/weblogic81/server
  ```

- The weblogic.home variable in <installation directory>\Foundation Services\Build\java\ant\bin\ant.bat must be set to the appropriate WebLogic root directory.
- Comment out the lines in the build scripts that do not refer to the target application server and database.

Running the Automated WebLogic Build Process

The <installation directory>\Foundation Services\Build folder contains the following build files:

Table 4. Build Files

Build File	Description
JavaPrompt.vbs	A Windows script that sets the classpath and path variables for the build process and opens a command shell.
build.cmd	This build script creates the EAR file and outputs it to <installation directory>\Foundation Services\build_tmp\build_release.

The build process creates the EAR file including the appropriate Application Server specific deployment descriptors.

The pre-built MCA Services EAR file at `<installation directory>\Foundation Services\deploy\` is not overwritten by the provided build process.

To run the automated WebLogic build process

1. Navigate to the `<installation directory>\Foundation Services\Build\` directory.
2. Double-click on the `JavaPrompt.vbs` file. This opens a command prompt.
3. Type the following commands at the command prompt:

   ```
   cd Build

   build weblogic
   ```

   The EAR file is output to `<installation directory>\Foundation Services\build_tmp\build_release\siebel.ear`.

Deploying the EAR File on WebLogic

After the EAR file has been rebuilt it can be redeployed on the application server. Refer to the *Installing MCA Services on WebLogic 8.1* guide for deployment instructions.

5 WebSphere 5.1.1 Build Process

This section contains information about how to build the MCA Services Enterprise Application for WebSphere 5.1.1 using the automated mechanism provided by WebSphere in `{WebSphereHome}\bin\ejbdeploy.bat`.

There is an installation pack provided each for WebSphere and DB2 and WebSphere and Oracle.

Prerequisites for the WebSphere Build Process

- WebSphere 5.1.1 must be installed on the build machine.
- The `JAVA_HOME` variable in `<installation directory>\FoundationServices\Build\java\ant\bin\ant.bat` must be configured to point to the WebSphere JDK.
- The `JAVA_HOME` variable in `<installation directory>\FoundationServices\Build\java\ant\bin\javaenv.bat` must be configured to point to the WebSphere JDK.
- The `websphere.home` variable in `<installation directory>\Foundation Services\Common\build.properties` must be uncommented (remove the `#` symbol) and set to the appropriate WebSphere root directory, for example:

  ```
  websphere.home=C:/Progra~1/WebSphere/AppServer
  ```

- The `websphere.home` variable in `<installation directory>\Foundation Services\Build\java\ant\bin\ant.bat` must be set to the appropriate WebSphere root directory.
- Comment out the lines in the build scripts that do not refer to the target application server and database.

Running the Automated WebSphere Build Process

The `<installation directory>\Foundation Services\Build` folder contains the following build files:

Table 5. Build Files

Build File	Description
JavaPrompt.vbs	A Windows script that sets the classpath and path variables for the build process and opens a command shell.
build.cmd	This build script creates the EAR file and outputs it to <installation directory>\Foundation Services\build_tmp\build_release.

The build process creates the EAR file including the appropriate Application Server specific deployment descriptors.

The pre-built MCA Services EAR file at <installation directory>\Foundation Services\deploy\ is not overwritten by the provided build process.

In the instructions below supply the correct argument for the appropriate target platform, that is, websphere-db2 or websphere-orcl.

To run the automated WebSphere build process

1. Navigate to the <installation directory>\Foundation Services\Build\ directory.
2. Double-click on the JavaPrompt.vbs file. This opens a command prompt.
3. Type the following commands at the command prompt:

   ```
   cd Build

   build [websphere-db2 | websphere-orcl]
   ```

The EAR file is output to <installation directory>\Foundation Services\build_tmp\build_release\siebel.ear.

Deploying the EAR File on WebSphere

After the EAR file has been rebuilt it can be redeployed on the application server. Refer to the *Installing MCA Services on WebSphere 5.1.1* guide for deployment instructions.