

IBM Tivoli Composite Application Manager for WebSphere V6.1

Readme for the update installer V6.1.0

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1 Abstract

The Update Installer for IBM Tivoli Composite Application Manager for WebSphere V6.1 provides the following functionality:

- A silent command-line update installer.
- Installation and removal of individual or multiple updates (Fix Packs and interim fixes).
- Logging, tracking and prerequisites handling.

This readme describes how to use the update installer.

2 Change History

6.1.0 January 11, 2007

- First release.

3 Installing Updates

This section describes how to install Fix Packs and interim fixes.

Note: For 6.1 FP4, the Update Installer is packaged with the MS and DC package, so the Update Installer package (ITCAM_V61_UpdateInstaller.tar) is no longer used.

3.1 Unpacking Update

The Fix Packs and interim fixes are distributed as tar files. Create a temporary directory, put the update package there and un-tar.

After un-taring the update package you should get the updates directory that contains the file with the *.update extension. For example:

```
tar xvf 6.1.0-TIV-ITCAMfWAS_MP-FP0004.tar
    silentUpdate.sh
updates/
    6.1.0-TIV-ITCAMfWAS_MP-FP0004.README
    ITCAM_V61_UpdateInstaller.htm
    ITCAM_V61_UpdateInstaller.pdf
    Notices_Supp1_05052008
    configUtil.jar
    silentUpdate.bat
    silentUpdate.properties
    update.jar
updates/6.1.0-TIV-ITCAMfWAS_MP-FP0004.update
```

IBM i5/OS: use /qopensys/usr/bin/tar

3.2 Preparing Environment

Before running the update installer you should login as root (Administrator) or owner of the product directory. Then update the environment as below.

The update installer requires the Java Runtime Environment version 1.4 or higher. Define the JAVA_HOME environment variable to point to the Java Runtime Environment provided with the Data Collector (or Managing Server) installation.

For example, on UNIX or Linux, run:

```
JAVA_HOME=<DC_HOME>/_jvm/jre
export JAVA_HOME
```

These are the defaults for <DC_HOME>/_jvm/jre:

- UNIX and Linux: /opt/IBM/itcam/WebSphere/DC/_jvm/jre
- Windows: C:\Program Files\IBM\itcam\WebSphere\DC_jvm\jre

Note: JAVA_HOME for IBM Tivoli Composite Application Manager for J2EE V6.1:
<DC_HOME>/installer/_uninst/java/jre

IBM i5/OS: use standard JDK 1.4:

```
export JAVA_HOME= /qibm/proddata/java400/jdk14
```

3.3 Updating the Response File

The update installer is a non-interactive silent installer that works based on the response file. The default name of the response file is silentUpdate.properties and it is supplied with the update installer. Update the response file as follows:

- Set the **product.location** property with the correct product location directory
 - Optionally, if the *.update files are not in default ./updates directory, then set the **updates.location** property with the directory that contains the *.update files.
 - If the Visualization Engine was not installed to the Managing Server runtime to be updated then set the **updateVe** property to false. Otherwise uncomment and set the **updateVe.wasHome** property with WAS_PROFILE_HOME of the Visualization Engine application server.
 - If the Visualization Engine is installed on a WebSphere Network Deployment, use SOAP connection to install the update. For that uncomment and set the following properties in the silentUpdate.properties file:
 - updateVe.was.soap.host=<HOST>
 - updateVe.was.soap.port=<PORT>
- If WebSphere Security is enabled, uncomment and set the following properties:
- updateVe.was.user=<WAS USER>
 - updateVe.was.password=<WAS PASSWORD>

Note: WebSphere Deployment Manager and Node Agent should be in running state.

- If the Data Collector is configured on a WebSphere Network Deployment and WebSphere Security is enabled the following properties must be specified:
 - connection.user=<WAS USER>
 - connection.password=<WAS PASSWORD>

Note: WebSphere Deployment Manager and Node Agent should be in running state.
- Using user and password information specified in the *.client.props file
To retrieve user name and password from *.client.props file set the following property in the silentUpdate.properties file:
 - connection.useClientProps=true

If SOAP connection is used, the user name and password will be retrieved from the soap.client.props file.
If RMI connection is used (for Data Collector only), the user name and password will be retrieved from the sas.client.props file.

Note: Do not set connection.useClientProps=true if user name and password are not specified in the *.client.props file, it may lead to hang of UpdateInstaller.
If you specify user and password information in the silentUpdate.properties file and set connection.useClientProps=true, the silentUpdate.properties file information overrides the information in the *.client.props file.

Note: the response file is Java Properties file. Any backward-slashes should be doubled, for example:

```
product.location= C:\\Program Files\\IBM\\itcam\\WebSphere\\DC
```

3.4 Creating dcInputs.txt - for IBM i5/OS only

Update installer uses the dcInputs.txt file created for the installation of the Data Collector on IBM i5/OS.

Check that this file exists in the <DC_HOME>/config_dc directory.

If the file does not exist, create and customize it as described in the **WebSphere Distributed Data Collector Installation and Customization Guide: Chapter 19. Silent Installation and configuration for the Data Collector on IBM i5/OS** and save it to the <DC_HOME>/config_dc directory.

3.5 Preparing Installation

To reduce the application server or Managing Server down-time the update installer allows to prepare installation while the product is running. This steps is optional but is recommended.

In order to prepare installation change to the directory where the update installer scripts are stored and run the following command:

Windows:

```
silentUpdate.bat -prepareInstall
```

UNIX, Linux and i5/OS:

```
./silentUpdate.sh -prepareInstall
```

If your response file is named differently then the default silentUpdate.properties then specify it as a parameter:

Windows:

```
silentUpdate.bat -prepareInstall my.properties
```

UNIX, Linux and i5/OS:

```
./silentUpdate.sh -prepareInstall my.properties
```

A typical output of the -prepareInstall command is:

```
>./silentUpdate.sh -prepareInstall
Update installer version 6.1.0
Logging details into C:\Program
Files\IBM\itcam\WebSphere\DC\logs\update\update_20050916213723.log
Action: prepare install
Finished successfully
```

3.6 *Cleaning Prepared Installation*

If you decide to not install the update after you already run -prepareInstall then you can clean results of the '-prepareInstall' command. In order to do that change to the directory where the update installer scripts are stored and run the following command:

Windows:

```
silentUpdate.bat -cleanPrepared
```

UNIX, Linux and i5/OS:

```
./silentUpdate.sh -cleanPrepared
```

If your response file is named differently then the default silentUpdate.properties then specify it as a parameter:

Windows:

```
silentUpdate.bat -cleanPrepared my.properties
```

UNIX, Linux and i5/OS:

```
./silentUpdate.sh -cleanPrepared my.properties
```

A typical output of the `-cleanPrepared` command is:

```
>./silentUpdate.sh -cleanPrepared
Update installer version 6.1.0
Logging details into C:\Program
Files\IBM\itcam\WebSphere\DC\logs\update\update_20050916213723.log
Action: clean prepared
Finished successfully
```

3.7 Installing

It is recommended that you run the `-prepareInstall` command before installing the update, see the previous section for details.

Before installing the update you should stop the product that you will update, i.e. the application server being monitored or the Managing Server components.

After you stopped the product change to the directory where the update installer scripts are stored and run the following command.

Windows:

```
silentUpdate.bat -install
```

UNIX, Linux and i5/OS:

```
./silentUpdate.sh -install
```

If your response file is named differently than the default `silentUpdate.properties` then specify it as a parameter:

Windows:

```
silentUpdate.bat -install my.properties
```

UNIX, Linux and i5/OS:

```
./silentUpdate.sh -install my.properties
```

A typical output of the `-install` command is:

```
>./silentUpdate.sh -install
Update installer version 6.1.0
Logging details into C:\Program
Files\IBM\itcam\WebSphere\DC\logs\update\update_20050916213723.log
Action: install
Finished successfully
```

3.8 Rolling Back Failed Installation

If the `-install` command fails and the automatic rollback fails also then the runtime will be locked for the updates until the rollback is completed successfully. In order to complete the rollback successfully do the following:

- Review the update installer log and resolve the cause of the rollback failure.
- Change to the directory where the update installer scripts are stored and run the following command:

Windows:

```
silentUpdate.bat -rollback
```

UNIX, Linux and i5/OS:

```
./silentUpdate.sh -rollback
```

If your response file is named differently then the default `silentUpdate.properties` then specify it as a parameter:

Windows:

```
silentUpdate.bat -rollback my.properties
```

UNIX, Linux and i5/OS:

```
./silentUpdate.sh -rollback my.properties
```

A typical output of the `-rollback` command is:

```
>./silentUpdate.sh -rollback
Update installer version 6.1.0
Logging details into C:\Program
Files\IBM\itcam\WebSphere\DC\logs\update\update_20050916213723.log
Action: rollback
Finished successfully
```

4 Uninstalling Updates

This section describes how to uninstall Fix Packs and interim fixes. See Unpacking Update in section 3.1 for information on unpacking the Update Installer.

4.1 Preparing Environment

Before running the update installer you should login as root (Administrator) or owner of the product directory. Then update the environment as below.

The update installer requires the Java Runtime Environment version 1.4 or higher. Define the JAVA_HOME environment variable to point to the Java Runtime Environment provided with the Data Collector (or Managing Server) installation.

For example, on UNIX or Linux, run:

```
JAVA_HOME=<DC_HOME>/_jvm/jre
export JAVA_HOME
```

These are the defaults for <DC_HOME>/_jvm/jre:

- UNIX and Linux: /opt/IBM/itcam/WebSphere/DC/_jvm/jre
- Windows: C:\Program Files\IBM\itcam\WebSphere\DC_jvm\jre

Note: JAVA_HOME for IBM Tivoli Composite Application Manager for J2EE V6.1:
<DC_HOME>/installer/_uninst/java/jre

IBM i5/OS: use standard JDK 1.4:

```
export JAVA_HOME= /qibm/proddata/java400/jdk14
```

4.2 Updating the Response File

The update installer is non-interactive silent installer that works based on the response file. The default name of the response file is silentUpdate.properties and it is supplied with the update installer. Update the response file as follows:

- Set the **product.location** property with the correct product location directory.
- Optionally, if the *.update files are not in default ./updates directory, then set the **updates.loction** property with the directory that contains the *.update files.
- If the Visualization Engine was not installed to the Managing Server runtime to be updated then set the **updateVe** property to false. Otherwise uncomment and set the **updateVe.wasHome** property with WAS_HOME of the Visualization Engine application server.
- If the Visualization Engine is installed on a WebSphere Network Deployment, use SOAP connection to install the update. For that uncomment and set the following properties in the silentUpdate.properties file:
 - updateVe.was.soap.host=<HOST>
 - updateVe.was.soap.port=<PORT>

If WebSphere Security is enabled, uncomment and set the following properties:

- updateVe.was.user=<WAS USER>
- updateVe.was.password=<WAS PASSWORD>

Note: WebSphere Deployment Manager and Node Agent should be in running state.

- If the Data Collector is configured on a WebSphere Network Deployment and WebSphere Security is enabled the following properties must be specified:
 - connection.user=<WAS USER>
 - connection.password=<WAS PASSWORD>

Note: WebSphere Deployment Manager and Node Agent should be in running state.
- Using user and password information specified in the *.client.props file
To retrieve user name and password from *.client.props file set the following property in the silentUpdate.properties file:
 - connection.useClientProps=true

If SOAP connection is used, the user name and password will be retrieved from the soap.client.props file.
If RMI connection is used (for Data Collector only), the user name and password will be retrieved from the sas.client.props file.

Note: Do not set connection.useClientProps=true if user name and password are not specified in the *.client.props file, it may lead to hang of UpdateInstaller.
If you specify user and password information in the silentUpdate.properties file and set connection.useClientProps=true, the silentUpdate.properties file information overrides the information in the *.client.props file.
- Set the **uninstall.updates** property with the one of possible values:
 - **all** – uninstall all updates
 - **last** – uninstall the updates installed by the last -install command
 - **<comma separated list of updates>** -- uninstall the specified updates. The updates are specified by their identifiers as displayed by the –listInstalledUpdates command. (f.e. 6.1.0.1, 6.1.0.1.1)

Note: the response file is Java Properties file. Any backward-slashes should be doubled, for example:

```
product.location=C:\\Program Files\\IBM\\itcam\\WebSphere\\DC
```

4.3 Preparing Uninstallation

To reduce the application server or Managing Server down-time the update installer allows to prepare uninstallation while the product is running. This steps is optional but is recommended.

In order to prepare uninstallation change to the directory where the update installer scripts are stored and run the following command:

Windows:

```
silentUpdate.bat –prepareUninstall
```

UNIX, Linux and i5/OS:

```
./silentUpdate.sh -prepareUninstall
```

If your response file is named differently then the default silentUpdate.properties then specify it as a parameter:

Windows:

```
silentUpdate.bat -prepareUninstall my.properties
```

UNIX, Linux and i5/OS:

```
./silentUpdate.sh -prepareUninstall my.properties
```

A typical output of the -prepareUninstall command is:

```
>./silentUpdate.sh -prepareUninstall
Update installer version 6.1.0
Logging details into C:\Program
Files\IBM\itcam\WebSphere\DC\logs\update\update_20050916213723.log
Action: prepare uninstall
Finished successfully
```

4.4 Cleaning Prepared Uninstallation

If you decide to not uninstall after you already run -prepareUninstall then you can clean results of the '-prepareUninstall' command. In order to do that change to the directory where the update installer scripts are stored and run the following command:

Windows:

```
silentUpdate.bat -cleanPrepared
```

UNIX, Linux and i5/OS:

```
./silentUpdate.sh -cleanPrepared
```

If your response file is named differently then the default silentUpdate.properties then specify it as a parameter:

Windows:

```
silentUpdate.bat -cleanPrepared my.properties
```

UNIX, Linux and i5/OS:

```
./silentUpdate.sh -cleanPrepared my.properties
```

A typical output of the -cleanPrepared command is:

```
>./silentUpdate.sh -cleanPrepared
```

Update installer version 6.1.0
Logging details into C:\Program
Files\IBM\itcam\WebSphere\DC\logs\update\update_20050916213723.log
Action: clean prepared
Finished successfully

4.5 Uninstalling

It is recommended that you run the `-prepareUninstall` command before uninstalling the update, see the previous section for details.

Before uninstalling the update you should stop the product that you will update, i.e. the application server being monitored or the Managing Server components.

After you stopped the product change to the directory where the update installer scripts are stored and run the following command:

Windows:

```
silentUpdate.bat -uninstall
```

UNIX, Linux and i5/OS:

```
./silentUpdate.sh -uninstall
```

If your response file is named differently then the default `silentUpdate.properties` then specify it as a parameter:

Windows:

```
silentUpdate.bat -uninstall my.properties
```

UNIX, Linux and i5/OS:

```
./silentUpdate.sh -uninstall my.properties
```

A typical output of the `-uninstall` command is:

```
>./silentUpdate.sh -uninstall  
Update installer version 6.1.0  
Logging details into C:\Program  
Files\IBM\itcam\WebSphere\DC\logs\update\update_20050916213723.log  
Action: uninstall  
Finished successfully
```

4.6 Rolling Back Failed Uninstallation

If the `-uninstall` command fails and the automatic rollback fails also then the runtime will be locked for the updates until the rollback is completed successfully. In order to complete the rollback successfully do the following:

- Review the update installer log and resolve the cause of the rollback failure.
- Change to the directory where the update installer scripts are stored and run the following command:

Windows:

```
silentUpdate.bat -rollback
```

UNIX, Linux and i5/OS:

```
./silentUpdate.sh -rollback
```

If your response file is named differently then the default `silentUpdate.properties` then specify it as a parameter:

Windows:

```
silentUpdate.bat -rollback my.properties
```

UNIX, Linux and i5/OS:

```
./silentUpdate.sh -rollback my.properties
```

A typical output of the `-rollback` command is:

```
>./silentUpdate.sh -rollback
Update installer version 6.1.0
Logging details into C:\Program
Files\IBM\itcam\WebSphere\DC\logs\update\update_20050916213723.log
Action: rollback
Finished successfully
```

5 Displaying Installed Updates

This section describes how to display a list of the installed Fix Packs and interim fixes. See Unpacking Update in section 3.1 for information on unpacking the Update Installer.

5.1 Preparing Environment

Before running the update installer you should login as root (Administrator) or owner of the product directory. Then update the environment as below.

The update installer requires the Java Runtime Environment version 1.4 or higher. Define the JAVA_HOME environment variable to point to the Java Runtime Environment provided with the Data Collector (or Managing Server) installation.

For example, on UNIX or Linux, run:

```
JAVA_HOME=<DC_HOME>/_jvm/jre
export JAVA_HOME
```

These are the defaults for <DC_HOME>/_jvm/jre:

- UNIX and Linux: /opt/IBM/itcam/WebSphere/DC/_jvm/jre
- Windows: C:\Program Files\IBM\itcam\WebSphere\DC_jvm\jre

Note: JAVA_HOME for IBM Tivoli Composite Application Manager for J2EE V6.1:
<DC_HOME>/installer/_uninst/java/jre

IBM i5/OS: use standard JDK 1.4:

```
export JAVA_HOME= /qibm/proddata/java400/jdk14
```

5.2 Updating the Response File

The update installer is non-interactive silent installer that works based on the response file. The default name of the response file is silentUpdate.properties and it is supplied with the update installer. Update the response file as follows:

- Set the **product.location** property with the correct product location directory

Note: the response file is Java Properties file. Any backward-slashes should be doubled, for example:

```
product.location=C:\\Program Files\\IBM\\itcam\\WebSphere\\DC
```

5.3 Displaying Installed Updates

To display a list of the installed Fix Packs and interim fixes change to the directory where the update installer scripts are stored and run the following command:

Windows:

```
silentUpdate.bat -displayInstalledUpdates
```

UNIX, Linux and i5/OS:

```
./silentUpdate.sh -displayInstalledUpdates
```

If your response file is named differently then the default silentUpdate.properties then specify it as a parameter:

Windows:

```
silentUpdate.bat -displayInstalledUpdates my.properties
```

UNIX, Linux and i5/OS:

```
./silentUpdate.sh -displayInstalledUpdates my.properties
```

A typical output of the - displayInstalledUpdates command is:

```
>./silentUpdate.sh - displayInstalledUpdates  
Update installer version 6.1.0  
Logging details into  
C:\Program Files\IBM\itcam\WebSphere\DC\logs\update\update_20060121163339.log  
Action: display installed updates  
Updates installed 21.02.06 16:43  
6.1.0  
Finished successfully
```