

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.

### 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 6.1.0.1-TIV-ITCAMfWAS_MP-IF0002.tar  
  
6.1.0.1-TIV-ITCAMfWAS_MP-IF0002.README  
updates/  
updates/6.1.0.1-TIV-ITCAMfWAS_MP-IF0002.update
```

### 3.2 Unpacking the Update Installer

Copy the update installer tar to the same directory were you un-tared the update package. This directory will typically contain the **updates** subdirectory. Un-tar the update installer package using the tar command, for example:

```
>tar xvf ITCAM_V61_UpdateInstaller.tar  
  
silentUpdate.bat  
silentUpdate.properties  
silentUpdate.sh  
update.jar
```

The resulting directory structure will contain both, the update installer and the update file. For example:

```
silentUpdate.bat
silentUpdate.properties
silentUpdate.sh
update.jar
6.1.0.1-TIV-ITCAMfWAS_MP-IF0002.README
updates/6.1.0.1-TIV-ITCAMfWAS_MP-IF0002.update
```

### **3.3 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 1.3.1 or higher. Either include the java command into PATH or define the JAVA\_HOME environment variable to point to the Java Runtime Environment home directory.

For example, on UNIX or Linux, run:

```
JAVA_HOME=/opt/WebSphere/AppServer/java
export JAVA_HOME
```

NOTE: If the JRE that comes with your application is version 1.3.1, do not use this JRE as the Java home. Instead, point to the JRE provided with the Data Collector installation. Run the following commands:

```
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

### **3.4 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\_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>

Note: WebSphere Deployment Manager should be in running state.

**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
```

### **3.5 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 or Linux:

```
./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 or Linux:

```
./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 or Linux:

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

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

Windows:

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

UNIX or Linux:

```
./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 or Linux:

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

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

Windows:

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

UNIX or Linux:

```
./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 or Linux:

```
./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 or Linux:

```
./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.

### 4.1 *Unpacking the Update Installer*

The all necessary uninstall information is stored to the product directory under the **update** sub-directory. You don't need the original update package in order to uninstall it. So download the latest update installer and un-tar it:

```
>tar xvf ITCAM_V61_UpdateInstaller.tar
```

```
silentUpdate.bat
silentUpdate.properties
silentUpdate.sh
update.jar
```

### 4.2 *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 1.3.1 or higher. Either include the java command into PATH or define the JAVA\_HOME environment variable to point to the Java Runtime Environment home directory.

For example, on UNIX or Linux, run:

```
JAVA_HOME=/opt/WebSphere/AppServer/java
export JAVA_HOME
```

NOTE: If the JRE that comes with your application is version 1.3.1, do not use this JRE as the Java home. Instead, point to the JRE provided with the Data Collector installation. Run the following commands:

```
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

### 4.3 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>Note: WebSphere Deployment Manager should be in running state.
- 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
```

### 4.4 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 or Linux:

```
./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 or Linux:

```
./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
```

## ***4.5 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 or Linux:

```
./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 or Linux:

```
./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
```

## **4.6 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 or Linux:

```
./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 or Linux:

```
./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
```

#### **4.7 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 or Linux:

```
./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 or Linux:

```
./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.

### 5.1 Unpacking the Update Installer

Download the latest update installer and un-tar it:

```
>tar xvf ITCAM_V61_UpdateInstaller.tar  
  
silentUpdate.bat  
silentUpdate.properties  
silentUpdate.sh  
update.jar
```

### 5.2 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 1.3.1 or higher. Either include the java command into PATH or define the JAVA\_HOME environment variable to point to the Java Runtime Environment home directory.

For example, on UNIX or Linux, run:

```
JAVA_HOME=/opt/WebSphere/AppServer/java  
export JAVA_HOME
```

### 5.3 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
```

### 5.4 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 or Linux:

```
./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 or Linux:

```
./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
```