



IBM Software Group

# IBM WebSphere® Enterprise Service Bus V6.1 IBM WebSphere Process Server V6.1

*Update installer and product upgrade*



@business on demand.

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This presentation will cover update installation and upgrading of WebSphere Process Server and WebSphere Enterprise Service Bus for V6.1.

## Goals

- Update Installer
- Product upgrade
  
- Installation process
  - ▶ WebSphere Enterprise Service Bus
  - ▶ WebSphere Process Server V6.1

The goal is to provide the usage of the update installer to apply iFixes and the product upgrade process. From this point forward, all slides represent the installation and upgrade for both the WebSphere Enterprise Service Bus and the WebSphere Process Server. Only the very few differences are pointed out.

## Update installer flow

- Back up configuration files
- Stop all Java™ processes
- Get update package
  - ▶ Download and extract the package directly into the *<install\_root>* directory.
  - ▶ Or select IBM Update Installer on the launchpad
- Install the Update Installer
- Extract update package in maintenance dir
- Run Update Installer
  - ▶ Select the product to update
  - ▶ Select the updates to add

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Installation and upgrade

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Before you start the upgrade process, use the “backupconfig” command to backup the existing profiles configuration data. Profiles are modified during the upgrade process, and the backed up profile will need to be restored if the service is later uninstalled.

Stop all the Java processes related to WebSphere Enterprise Service Bus or WebSphere Process Server products. The update installer can be downloaded or is available from the launchpad. The updated installer must be installed and all maintenance packages must be extracted into the maintenance directory of the update installer. Run the update installer and select the product to update. The next panel will present a list of updates that were extracted into the maintenance directory. Select the recommended updates and proceed by clicking next. The update installer can be left installed to be used for other updates when needed. The next few slides will explain how to perform updates in each of the different types of server environments.

## Upgrade WebSphere Process Server V6.1 with stand-alone profiles

### Main flow

- Stop the application server.
- Install the version 6.1 Refresh Pack on the stand-alone installation.
  - ▶ Follow the steps described in Update Installer Flow
- Restart the application server.
- Repeat the above process for each installation that contains only stand-alone profiles

To update stand-alone profiles for version 6.1:

Stop all of the application servers.

Install the version 6.1 Refresh Pack on the installation that contains the stand-alone profiles, following the steps described for the update installer flow.

Restart all of the application servers.

## Network Deployment environment - no clusters

### Main flow

- Stop all the servers on the deployment manager server installation
- Install the version 6.1 Refresh Pack on the deployment manager's installation
- Start the deployment manager server
- For each federated node that is not based off the same installation as the deployment manager, follow these steps:
  - ▶ Stop all servers (application servers and node agents)
  - ▶ Install the version 6.1 Refresh Pack on the node's installation
  - ▶ If the message "INSTCONFPARTIALSUCCESS" is returned
    - Check the <install\_root>/logs/wbi/WbiProfileUpgrade.log file for errors and fix the cause
    - On the federated node (not on the deployment manager), change directories to <install\_root>/util
    - For each profile with an error in WbiProfileUpgrade.log, run this command  
**wsadmin -profileName <profileName> -f WbiProfileUpgrade.jacl**  
(WbiProfileUpgrade.jacl is in <install\_root>/util )
    - Restart all servers of the node

For updating your WebSphere Process Server Network Deployment environment with no clusters, you need to update the deployment manager first. This will update all the managed nodes and stand-alone profiles based on the same installation of deployment manager to V6.1. Start the deployment manager server.

Update all the installations for the federated nodes not based on the same installation of deployment manager. If you get the INSTCONFPARTIALSUCCESS message while upgrading an installation, check the WbiProfileUpgrade.log file for each profile in the installation, fix the errors, and run the script shown here.

## Network Deployment environment with clusters

### Main flow

- Stop the deployment manager server
- Install the version 6.1 Refresh Pack on the deployment manager's installation
- Start the deployment manager server
- For each cluster,
  - ▶ Stop all cluster members
  - ▶ Install the version 6.1 Refresh Pack on all installations that host cluster members
  - ▶ If the message "INSTCONFPARTIALSUCCESS" is returned
    - Check the <install\_root>/logs/wbi/WbiProfileUpgrade.log file for errors and fix the cause
    - On the cluster member installation, change directories to <install\_root>/util
    - For each profile with an error in WbiProfileUpgrade.log, run:  
**wsadmin -profileName <profileName> -f WbiProfileUpgrade.jacl**
    - On the deployment manager, run:  
**wsadmin -profileName <profileName> -cluster <clusterName> -f WbiProfileUpgrade.jacl**
    - Restart all cluster members

This slide shows the steps for updating your WebSphere Process Server V6.1 Network Deployment environment with clusters defined.

Update the deployment manager first, then start the deployment manager server.

For each cluster, stop the cluster members. Update all of the installations that host the federated nodes and have at least one server that is part of the cluster.

If you get the INSTCONFPARTIALSUCCESS message while upgrading an installation, check the WbiProfileUpgrade.log file for each of the profiles in the installation, fix the errors, then follow the instructions listed here.

## Network Deployment environment with clusters, minimum downtime

### Main flow

- Stop the deployment manager server
- Install the version 6.1 Refresh Pack on the deployment manager's installation
- Start the deployment manager server
- For each cluster,
  - ▶ Stop the first half cluster members
  - ▶ Install the version 6.1 Refresh Pack on all installations that host these cluster members
  - ▶ Do not restart the cluster members yet
  - ▶ If the message "INSTCONFPARTIALSUCCESS" is returned
    - Check the <install\_root>/logs/wbi/WbiProfileUpgrade.log file for errors and fix the cause
    - On the cluster member installation, change directories to <install\_root>/util
    - For each profile with an error in WbiProfileUpgrade.log, run this command  
**wsadmin -profileName <profileName> -f WbiProfileUpgrade.jacl**
    - Stop the second half of cluster members. There is a short downtime which cannot be avoided
    - On the deployment manager, change directories to <install\_root>/util , run the command  
**wsadmin -profileName <profileName> -cluster <clusterName> -f WbiProfileUpgrade.jacl**
    - Restart the cluster members of those nodes where version 6.1 Refresh Pack has been installed
    - Install the version 6.1 Refresh Pack on the installations of the remaining cluster members and restart each one after the installation

To update with minimum downtime, update the deployment manager first, then start the deployment manager server.

These instructions assume that the deployment manager is on a system of its own, the cluster includes a minimum of two servers, each on its own system, and automatic node synchronization is enabled.

For each cluster:

Stop the first half of the cluster members and update all the installations that host the federated nodes and have at least one stopped server that is part of the cluster.

If you get partial success messages, follow the steps shown in the slide.

Stop the second half of cluster members. There is a short downtime which cannot be avoided.

Restart the first half of cluster members that you stopped previously.

Install the version 6.1 Refresh Pack on the installations of the second half of the cluster members and restart each one after the installation.

## Uninstalling

- For WebSphere Process Server stand-alone installations (that were not installed on any existing WebSphere Application Server or WebSphere Application Server Network Deployment):
  - ▶ Provides option to uninstall the underlying WebSphere Application Server or WebSphere Application Server Network Deployment
  - ▶ By default, it will uninstall the underlying WebSphere Application Server or WebSphere Application Server Network Deployment
  - ▶ If the option is to keep the underlying install of WebSphere Application Server or WebSphere Application Server Network Deployment, any profiles that have been augmented by WebSphere Process Server are unaugmented, as long as WebSphere Process Server is the last augments
  - ▶ If the option is to uninstall the underlying WebSphere Application Server or WebSphere Application Server Network Deployment, all profiles are first unaugmented and then deleted
- Uninstall can be run silently

The uninstaller allows you to uninstall the underlying WebSphere Application Server or WebSphere Application Server Network Deployment. The underlying WebSphere Application Server Network Deployment are selected for uninstallation by default if WebSphere Process Server was an umbrella installation. If you choose not to uninstall the underlying WebSphere Application Server, any profiles that have been augmented by WebSphere Process Server are unaugmented as long as WebSphere Process Server is the last augments. If you choose to uninstall the underlying WebSphere Application Server, all profiles are first unaugmented and then deleted. The uninstall process can also be run silently.



## Product upgrade for existing V6.1 installation

- Profile Creation and Augmentation using extensions to the Profile Management Tool
- Trade up installations
  - ▶ SOA Core -> BPC
  - ▶ SOA Core -> WebSphere Enterprise Service Bus
  - ▶ SOA Core -> WebSphere Process Server
  - ▶ BPC -> WebSphere Process Server
  - ▶ WebSphere Enterprise Service Bus -> WebSphere Process Server
  - ▶ No BPC -> WebSphere Enterprise Service Bus or WebSphere Enterprise Service Bus -> BPC since these are not subsets or supersets of each other

This slide will now move onto the product upgrade for a existing V6.1 installation. Since each of the components are installed on a common install engine, and some components are subsets of others, then a base install of SOA Core, BPC or WebSphere Enterprise Service Bus can be upgraded to a superset product. The most common scenario might be an installed WebSphere Enterprise Service Bus being upgraded to support the WebSphere Process Server as the need for applications becomes a requirement beyond messaging.

## Section

# *Summary*

This section will provide a summary of topics discussed in this presentation.

## Summary

- Update Installer
- Product upgrade

This presentation covered the WebSphere Enterprise Service Bus and the WebSphere Process Server V6.1 update installer and how to upgrade a product for an existing installation.

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