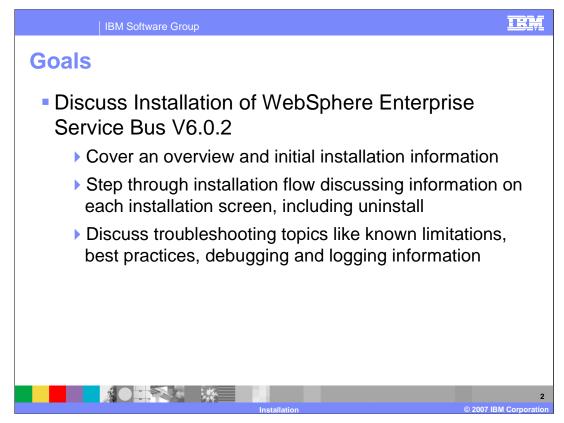
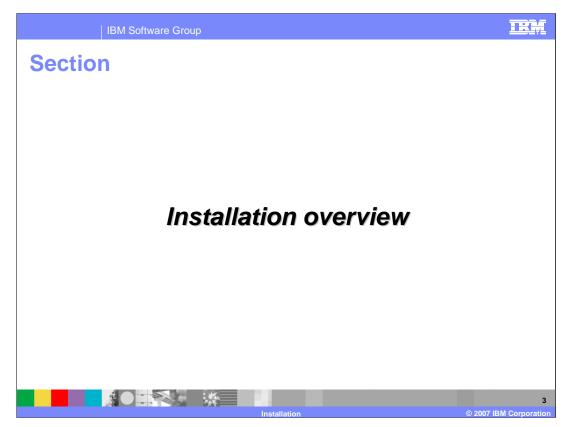


This presentation will cover installation of WebSphere Enterprise Service Bus V6.0.2



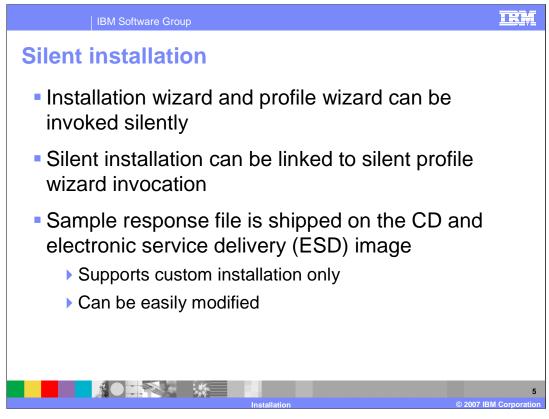
The goal is to provide an overview of initial installation information, then step through the installation flow discussing each installation screen, including uninstalling. Troubleshooting topics such as known limitations, best practices, and debugging and logging information will also be discussed.



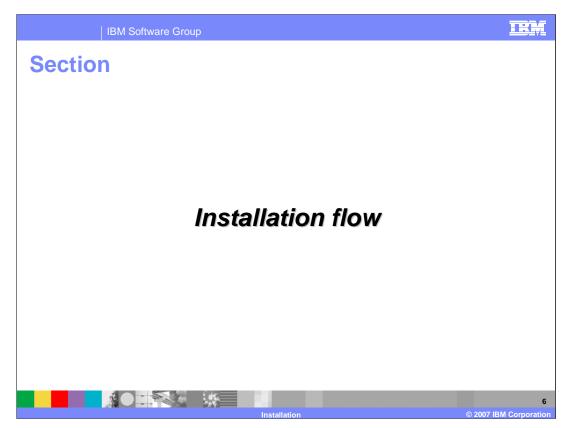
The next section will provide an overview of the installation process.



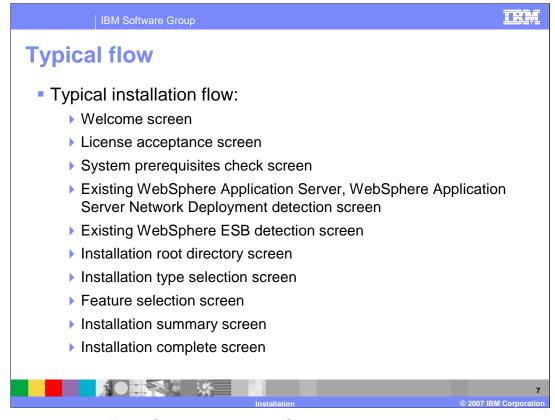
The WebSphere Enterprise Service Bus V6.0.2 installer is an InstallShield MultiPlatformbased installer that supports interactive and silent installation. There are two different types of installations available for WebSphere Enterprise Service Bus V6.0.2; complete installation, which is covered in detail by this presentation, and custom installation. Custom installation is also discussed in this presentation, but profile creation is discussed in a separate presentation. The second installation type describes the process for updating the existing versions of WebSphere Enterprise Service Bus V6.0 to V6.0.2 using the refresh pack.



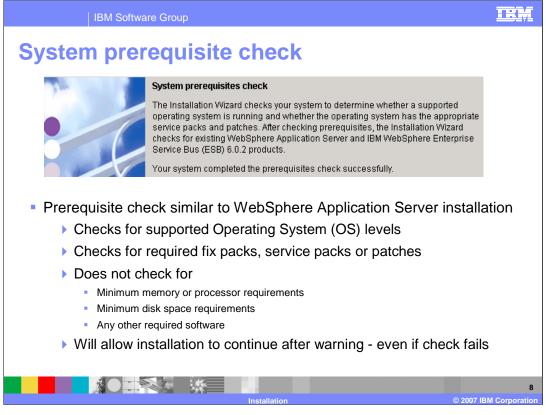
WebSphere Enterprise Service Bus V6.0.2 does provides support for silent installation. A sample response file is shipped on the CD and Electronic Service Delivery (or ESD) image, allowing you to create custom silent installation scripts. It supports custom installation only and can be easily modified to suit your needs.



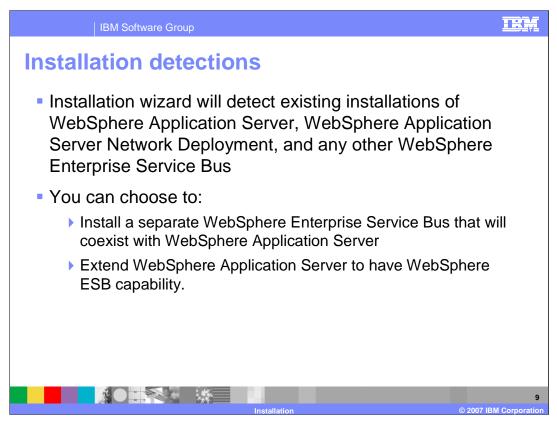
This section will describe the typical flow of installation screens.



A typical sequence of WebSphere Enterprise Service Bus V6.0.2 installation screens is shown here. The first panel is the welcome screen, followed by the license acceptance screen. Next, the installer will do a system prerequisites check similar to a WebSphere Application Server installation. Then the installer will check for existing WebSphere Application Server, WebSphere Application Server Network Deployment and WebSphere ESB installations. After that, you will be prompted for the WebSphere Enterprise Service Bus V6.0.2 installation root directory and asked to choose between two installation types, Complete and Custom, in the installation type selection screen. The custom installation provides a feature selection screen. Both installation types will show a summary screen before installing the server. The last screen displayed is the Installation Complete screen, where you will be prompted to open the first steps or profile creation wizard.



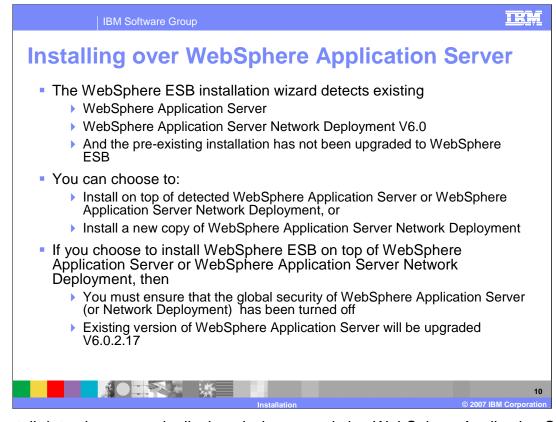
The welcome and license acceptance screens are self explanatory. On the System Prerequisite check screen, the installer does a prerequisite check, looking for supported OS levels, required fix packs, service packs or patches. It does not check for minimum memory or processor requirements, minimum disk space requirements, or any other required software. Even if the prerequisite check fails, installation is allowed to continue.



In the installation detections screen, the installation wizard will detect existing installations of WebSphere Application Server, WebSphere Application Server Network Deployment and WebSphere ESB. You can choose to Install a new copy of WebSphere ESB under *install_root* /logs/wbi/instconfig.log 6.0.2 or add new features to an existing installation

Important: The installer will also detect unregistered instances of WebSphere Application Server Network Deployment, Version 6.0.1, if they have entries in the .WASRegistry file. Using an unregistered installation with your WebSphere ESB installation is not supported.

If you already have WebSphere ESB installed, you can install another WebSphere ESB to coexist with it.

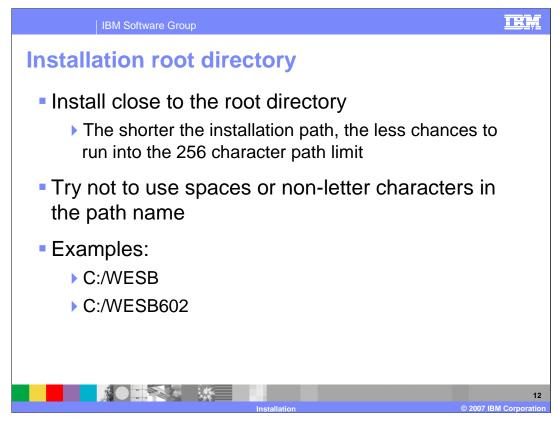


The install detection screen is displayed when an existing WebSphere Application Server Base or Network Deployment V6.0 or later is detected and there is not already a copy of WebSphere ESB installed over it. You can choose to install on top of the detected WebSphere Application Server or install a new copy of WebSphere Application Server Network Deployment. Any existing version of WebSphere Application Server will be upgraded to the proper service level - that is, V6.0.2.17 - as part of the installation.

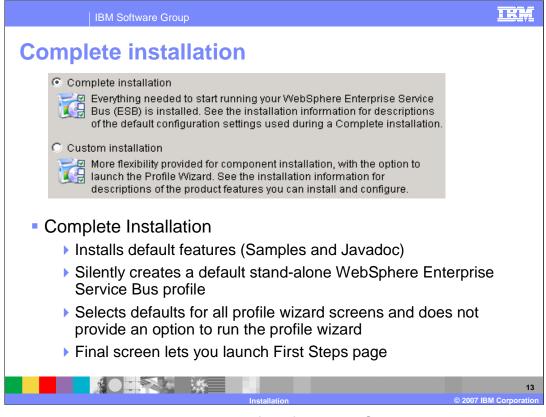
If WebSphere Enterprise Service Bus is being installed over an existing installation of a secured WebSphere Application Server or WebSphere Application Server Network Deployment, turn off global security before installing WebSphere Enterprise Service Bus.



WebSphere Enterprise Service Bus V6.0.2ships with a full copy of WebSphere Application Server Network Deployment V6.0.2.17, which will be silently installed. WebSphere ESB and WebSphere Application Server Network Deployment are both installed into the same location. The install summary screen displays disk space requirements for both WebSphere ESB and WebSphere Application Server Network Deployment. If the WebSphere ESB samples feature is selected, the WebSphere Application Server samples are also installed.



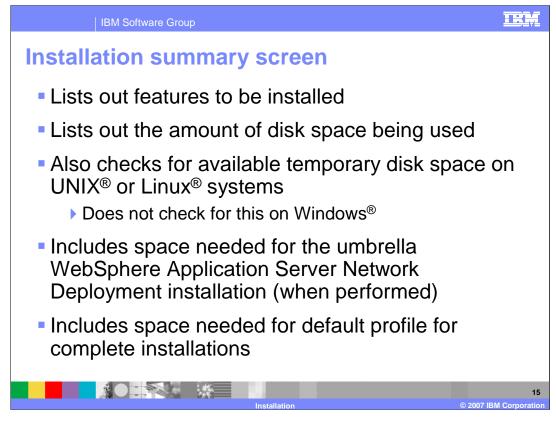
At the Installation Root directory screen, you will be asked where to install the WebSphere Enterprise Service Bus. It is highly recommended to install as close to the system root directory as possible. The shorter the initial path length, the less likely you are to run into the 256 character path limit during installation or at runtime. Avoid using spaces or non-alpha characters in the path name. Examples are shown here.



For the complete installation option, the default features - Samples and Javadoc - are installed. This also silently creates a default stand-alone WebSphere Enterprise Service Bus profile that selects all the defaults for the profile wizard screens and does not provide an option to run the profile wizard. The finish screen (last screen) allows you to launch the First Steps page. A complete installation will take over an hour depending on system specifications.



The custom installation allows you to select the samples and JavaDoc features, which are installed by default by the Complete Installation option. Selecting the WebSphere ESB samples will also cause WebSphere Network Deployment samples to be installed. You should select custom installation for most situations. This installation option does not create a default profile, but launches the profile creation wizard on the final screen. The WebSphere Enterprise Service Bus profile requires more details than the WebSphere profile, which is the reason for suggesting a custom installation. Profile setup is discussed in the profile creation wizard education module. Custom installation will take less time since a default profile is not created. However, you must create a profile before you can start the server.



The installation summary screen lists the features to be installed and checks for available temporary disk space on UNIX and Linux systems. This check is not performed on Windows systems. The check includes the space needed for the umbrella WebSphere Application Server Network Deployment installation (when performed) and the default profile for Complete installations.

Review the summary information and click Next to install the products, Back to change your options or Cancel to quit the installation wizard. When you click Next the installation wizard shows a progress panel to indicate that components are being installed. The installation takes place in stages, and for each stage the progress bar runs from zero to 100%. At the end of the installation, the Installation Complete panel is displayed.

If errors are detected during installation, other panels might be displayed in place of the Installation Complete panel.

The "Installation is complete with errors" panel indicates that installation completed, but errors were generated.

the "Installation failed" panel indicates that installation failed completely.

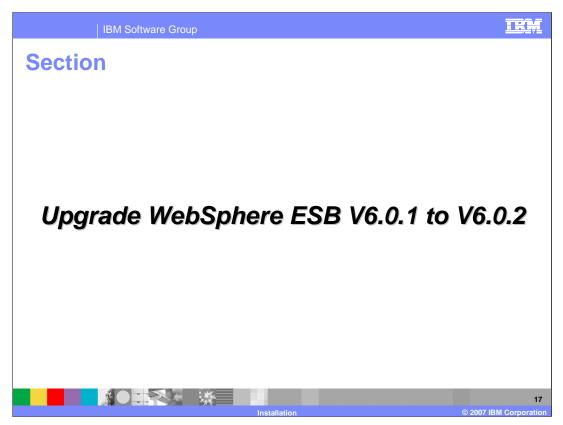
Each of these panels points you to the log file, which contains more details to help you to resolve the errors.



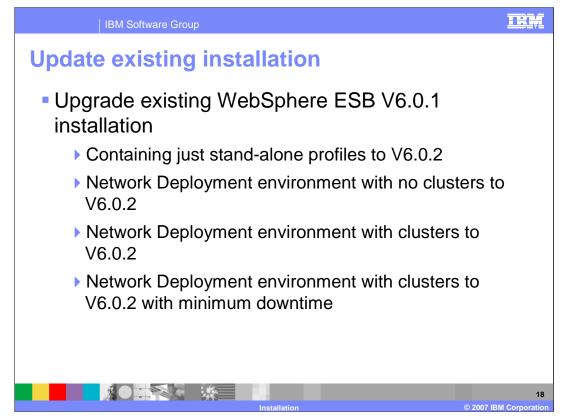
If the Installation Complete panel is displayed at the end of product installation, WebSphere ESB and WebSphere Application Server Network Deployment V6.0.2 were installed successfully. Click **Finish** to close the installation wizard.

After a complete installation, you can launch the first steps console by selecting the check box next to "Launch First Steps". From here you can start the server and run the installation verification test.

After a custom installation, you can launch the profile creation wizard by selecting the check box next to "Launch Profile Wizard"; the first steps console is launched when the profile creation wizard has finished.

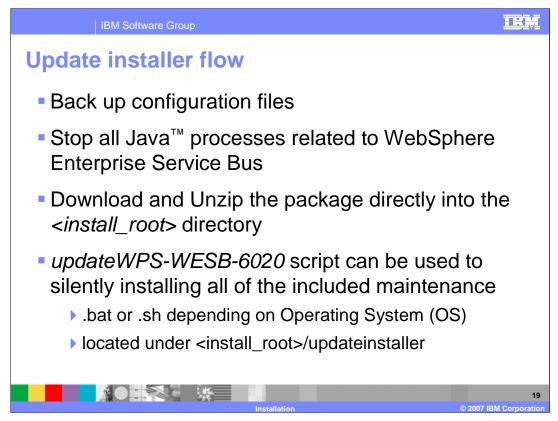


This section will provide an overview of upgrading your existing installation of WebSphere ESB V6.0.1 to V6.0.2



To upgrade your existing WebSphere ESB V6.0.1 version to V6.0.2, you can make use of the refresh pack to upgrade your setup.

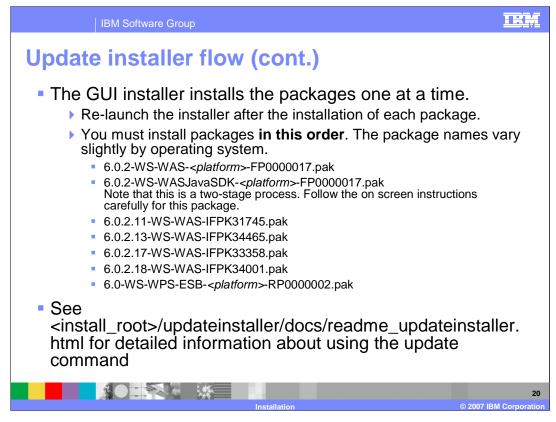
The scenarios for the upgrade are listed on this slide.



This slide and the next one show the steps involved in using the update installer to update your existing WebSphere Enterprise Service Bus V6.0.1 environment to V6.0.2.

Note that you can upgrade from any version of V6.0.1.0 through V6.0.1.4 to V6.0.2. Upgrading from V6.0.0 requires first upgrading to V6.0.1.

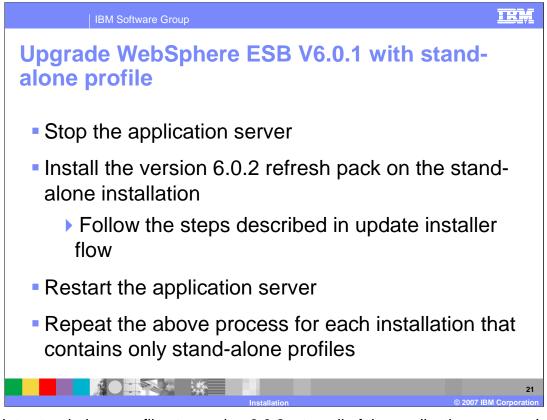
Before you start the upgrade process, use the "backupconfig" command to backup the existing profiles configuration data. Profiles will be modified during the upgrade process, and the backed up profile will need to be restored if the service is later uninstalled. Stop all the Java processes related to the WebSphere Enterprise Service Bus product. Run the script to upgrade silently, or use the installer to upgrade interactively.



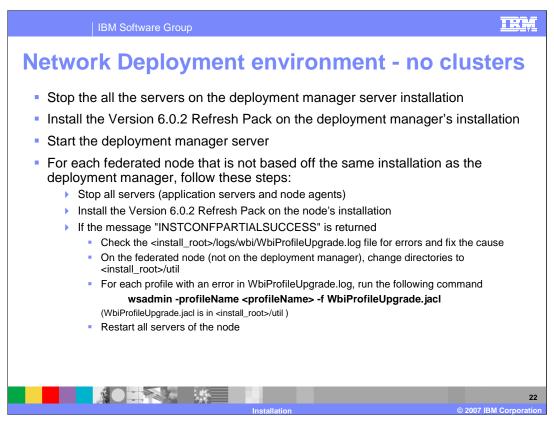
The installer installs the packages one at a time. When you are asked to enter the file name of the maintenance package, you must browse to find each package name, in the order shown here. The package names vary slightly by operating system. Relaunch the installer after the installation of each package.

Note that for any maintenance package that includes service to the Software Development Kit (SDK), the Update Installer copies the SDK and stops. Click Relaunch to start the Update Installer again. The Update Installer can then install the maintenance package.

Successful upgrade process will update the underlying Java SDK, WebSphere Application Server to 6.0.2.17, apply any ifixes and update WebSphere ESB V6.0.1 environment to V6.0.2

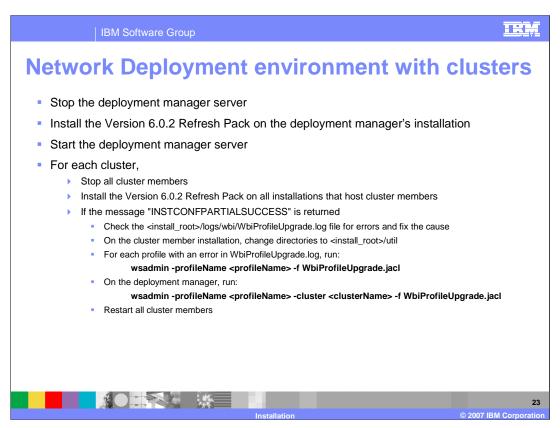


To update stand-alone profiles to version 6.0.2, stop all of the application servers. Install the Version 6.0.2 Refresh Pack on the installation that contains the stand-alone profiles, following the steps described for the update installer flow. Then restart all of the application servers.



For updating your WebSphere ESB Server V6.0.1 Network Deployment environment with no clusters to V6.0.2, 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 V6.0.2. 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.

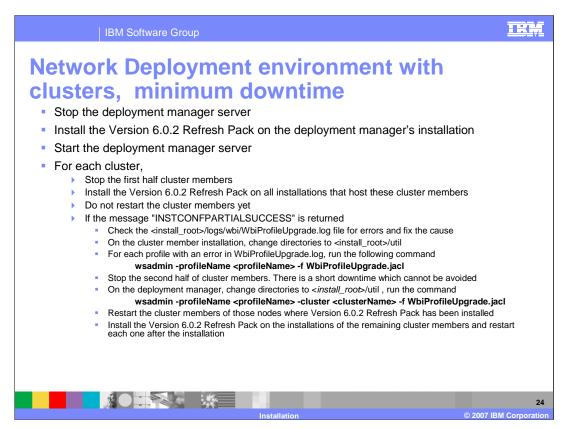


This slide shows the steps for updating your WebSphere ESB V6.0.1 Network Deployment environment with clusters defined.

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.



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:

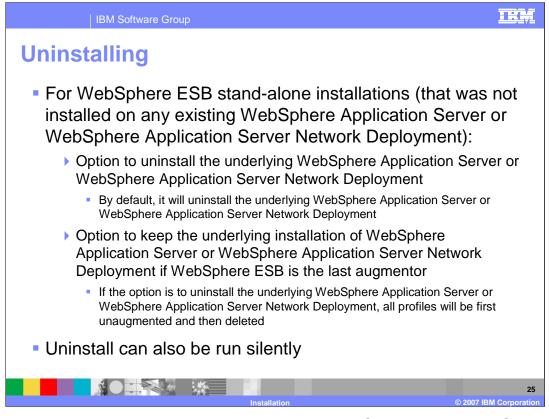
Stop the first half of the cluster members and update all the installations that host the federated nodes and have at least one stopped server that is part of the cluster.

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

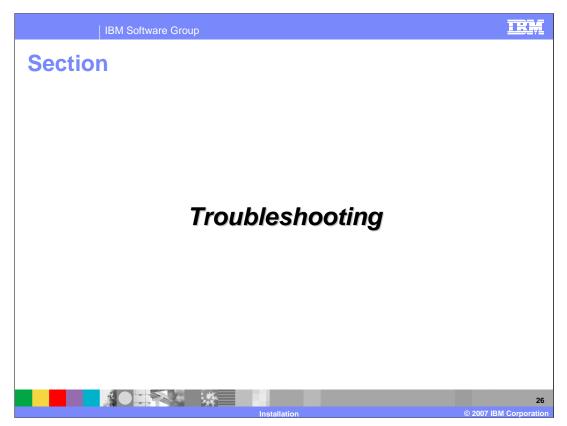
Stop the second half of cluster members. There is a short downtime which cannot be avoided.

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

Install the Version 6.0.2 Refresh Pack on the installations of the second half of the cluster members and restart each one after the installation.



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



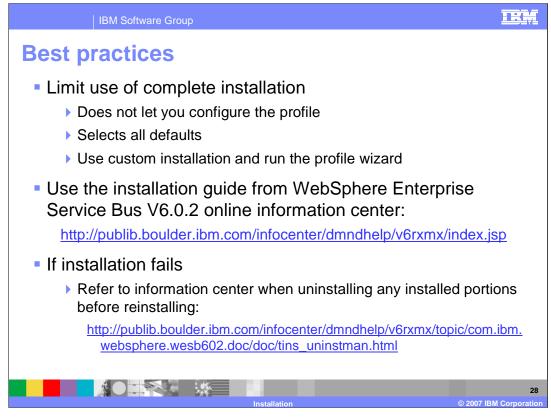
This section covers troubleshooting, including known limitations, best practices, debugging and logging information.



There are several known limitations identified in the WebSphere Enterprise Service Bus Readme and release notes. Some of those limitations are listed here.

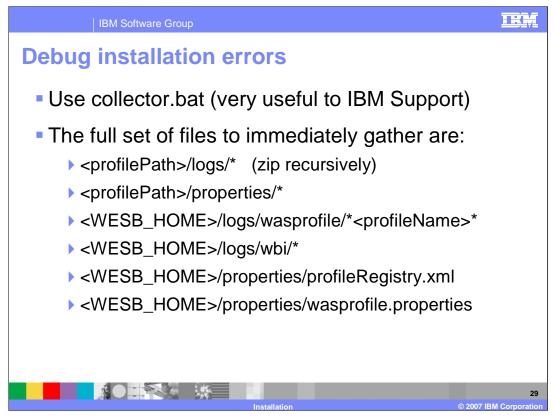
When installing WebSphere ESB on an existing WebSphere Application Server Base or Network Deployment environment where global security is enabled, security must be turned off before installation starts..

A custom WebSphere ESB profile cannot be augmented if the custom node and profile is already federated with a deployment manager.

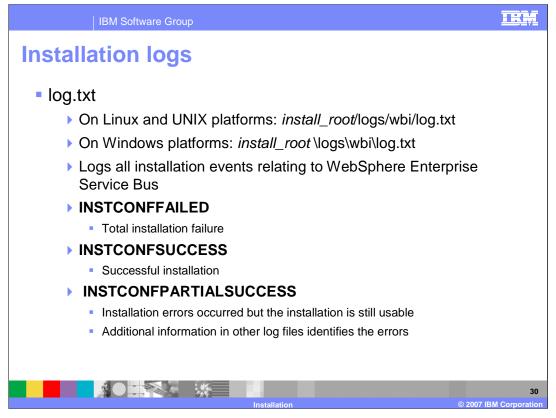


Listed here are a few best practices, in addition to the information in the information center, readme, and release notes. The complete installation does not allow you to configure the profile, and it selects all the defaults for the generated profile. Instead, use "Custom" installation and run the profile wizard. Always refer to the installation guide from the WebSphere Enterprise Service Bus V6.0.2 online information center.

If the installation fails, refer to the information center for instructions on uninstalling any partially installed components before reinstalling.



To debug installation errors, gather the full set of files listed here. When working with IBM support, run collector.bat to collect all the necessary files to send.

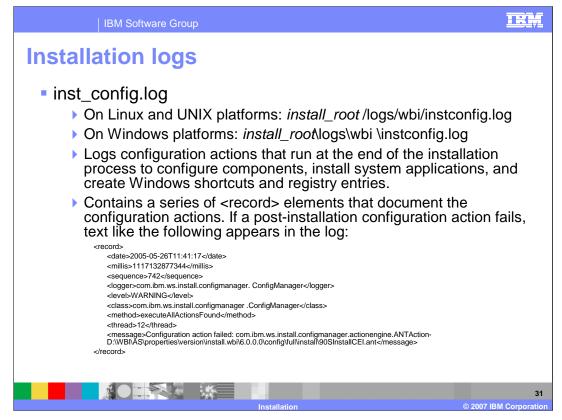


There is an install log named log.txt. On Linux, UNIX, and Windows platforms, this file can be found in <INSTALL_DIR>/logs/wbi/log.txt. The log.txt contains all installation events relating to WebSphere Enterprise Service Bus. There are three possible results in the log.

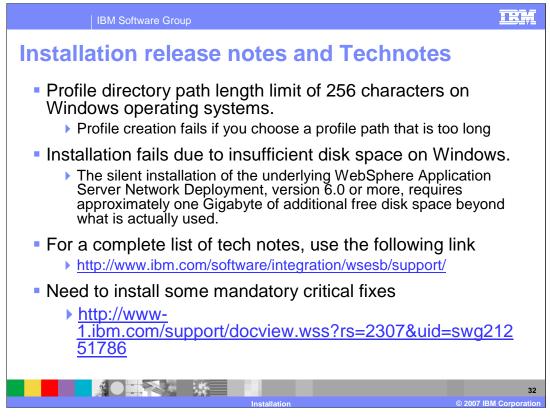
INSTCONFFAILED means the installation failed.

INSTCONFSUCCESS means the installation was successful.

INSTCONFPARTIALSUCCESS means that errors occurred during the installation, but the installation is still usable. Additional information in other log files identifies the errors.

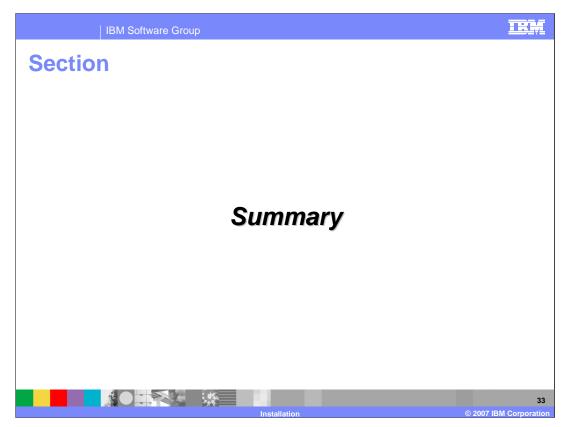


The inst_config.log will log configuration actions that run at the end of the installation process to configure components, install system applications, and create Windows shortcuts and registry entries. This file is found on Linux, UNIX, and Windows platforms as <INSTALL_DIR>/logs/wbi/inst_config.log. It contains a series of <record> elements that document the configuration actions. If a post-installation configuration action fails, text like that shown in this slide appears in the log.



Some important points from the WebSphere Enterprise Service Bus release notes and tech notes are shown here. Installation fails if the profile directory path exceeds 256 characters. Installation can fail with a java.util.ZipException with an unmapped network drive.

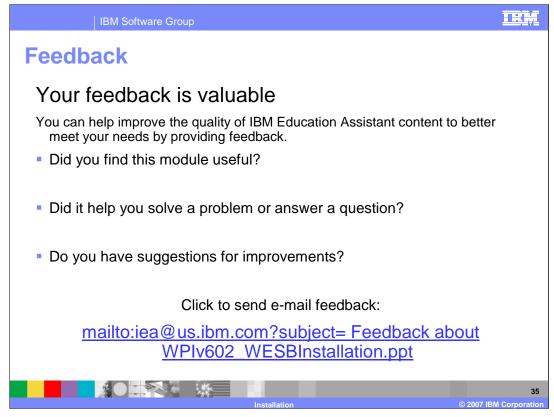
The silent installation of the underlying WebSphere Application Server Network Deployment version 6.0, requires approximately one gigabyte of additional free temp disk space beyond what is actually used.



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



This presentation covered the WebSphere Enterprise Service Bus V6.0.2 installation. It also covered initial install information, and stepped through the installation flow. You saw how to update an existing installation and how to uninstall. Troubleshooting topics like known limitations, best practices, and debugging and logging information were also covered.



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