



IBM Software Group

IBM WebSphere® Process Server V6.0.1

Profile Creation Wizard



@business on demand.

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This presentation will cover the Profile Creation Wizard feature of WebSphere Process Server V6.0.1

Goals

- Discuss Profile creation/augmentation for WebSphere Process Server V6.0.1 profiles
 - ▶ Cover a profile wizard introduction and initial profile information
 - ▶ Step through creation and augmentation of the 3 types of profiles for WebSphere Process Server V6.0.1 (stand-alone, deployment manager, and custom profiles)
 - ▶ Discuss troubleshooting topics like known limitations, best practices, and debugging/logging information

The goal of this presentation is to discuss Profile creation/augmentation for WebSphere Process Server V6.0.1. An introduction to the profile wizard and initial profile information will also be provided. Next, the sequence of steps for creation and augmentation of the three types of profiles for WebSphere Process Server V6.0.1 will be covered followed by troubleshooting topics, known limitations, best practices, and debugging/logging information.

Agenda

- **Profile Creation Wizard Introduction**
- Stand-alone Process Server Profile Creation/Augmentation Flow
- Deployment Manager Profile Creation/Augmentation Flow
- Custom Profile Creation/Augmentation Flow
- Troubleshooting
- Summary

This section will provide an introduction to the Profile Creation Wizard for WebSphere Process Server V6.0.1.

Profile Creation Wizard Overview

- Separate Install Shield Multi-Platform (ISMP) based GUI Wizard
- Supports creation of new profiles and augmentation of existing profiles
- Supports three profile types
 - ▶ Stand-alone process server profile
 - ▶ Deployment manager profile
 - ▶ Custom node profile
- Provided as a separate tool to support creation of multiple profiles for a single binary install
- Option to run Wizard at end of Custom Install for WebSphere Process Server V6.0.1 install



The Profile Creation Wizard is a separate Install Shield Multiplatform (ISMP) based GUI Wizard that supports creation of new profiles and augmentation of existing profiles. It also supports the three profile types: Stand-alone process server profile, Deployment manager profile, and Custom node profile. The Profile Creation Wizard is provided as a separate tool to support creation of multiple profiles for a single binary install. The option to launch the profile creation wizard is presented at end of a Custom Install for WebSphere Process Server V6.0.1.

Profile Creation Wizard Flow

- Welcome screen
- Existing profile detection screen
- Profile type selection screen
- Profile augmentation selection screen
- Profile type specific configuration screens
- Pre-profile creation/augmentation summary screen
- Post-profile creation/augmentation summary and First Steps page



The first screen displayed is the welcome screen, followed by the existing profile detection screen. Next, you must select which profile type to create on the profile type selection screen. If you choose to augment a profile, the profile augmentation selection screen follows along with profile type specific configuration screens. In this presentation, the pre-profile creation/augmentation summary screen and post-profile creation/augmentation summary will be displayed. The profile will then be created. The last screen displayed will provide you the opportunity to launch the First Steps page.

Existing Profile Detection

- Existing Profile Detection screen will be displayed if there are existing Application Server profiles that have
 - ▶ not been fully augmented by WebSphere Process Server
 - ▶ not been federated to a deployment manager
 - Custom Profiles may be unfederated first so that they can be augmented and then refederated
- Given a choice to either
 - ▶ Create a new profile
 - ▶ Augment an existing profile
- If “Augment an existing profile” is selected
 - ▶ Only those profile types that have valid profiles for augmentation will be displayed on the Profile type selection screen
 - ▶ A list of available profiles of that type will be given on the Profile augmentation selection screen

The profile creation wizard can detect existing WebSphere Application Server profiles. The existing profile detection screen will be displayed if there are existing WebSphere Application Server profiles that have not been fully augmented by the Process Server or have not been federated to a deployment manager. Custom Profiles can be unfederated first so that they can be augmented and then refederated to a WebSphere Process Server deployment manager profile. On this screen, you are given a choice to either create a new profile or augment an existing profile. If you choose to “Augment an existing profile”, only those profile types that have valid profiles for augmentation will be displayed on the profile type selection screen. A list of available profiles of that type will be given on the profile augmentation selection screen.

Profile Types

- Stand-alone Process Server Profile
 - ▶ Profile that will NOT be federated to a deployment manager cell
 - ▶ Federation of stand-alone process server profiles is NOT supported in WebSphere Process Server V6.0.1
- Deployment Manager Profile
 - ▶ Used to manage a cell
 - ▶ Custom profiles get federated to a deployment manager
- Custom Profile
 - ▶ Empty node with no server defined
 - ▶ Meant to be federated to a deployment manager
 - ▶ Can be federated at profile creation time or using the addNode command
 - ▶ Once federated, user would have option of creating a default WebSphere Application Server, WebSphere Enterprise Service Bus server or an WebSphere Process Server in the custom node.
 - Remember that you cannot create a WebSphere Enterprise Service Bus profile but can create an WebSphere Enterprise Service Bus server in the federated custom node.
- **Note:** User must have root privileges on Linux® or UNIX® systems, or be a member of the Administrator group on Windows™ systems when running the profile creation wizard.

There are three types of profile. The stand-alone process server profile is a profile that will not be federated to a deployment manager cell because federation of stand-alone process server profiles is not supported in WebSphere Process Server V6.0.1. The second type of profile is a deployment manager profile, which is used to manage a cell and allows custom profiles to be federated to a deployment manager. The third type of profile is the custom profile, which is an empty node with no server defined. Its purpose is to be federated to a deployment manager, either at profile creation time or using the addNode command. Once federated, you have the option of creating a default WebSphere Application Server, WebSphere Enterprise Service Bus server or a WebSphere Process Server in the custom node. The profile creation wizard must be run by a user with root authority on Linux or UNIX platforms or a member of the Administrator group on Windows platforms.

Section

- Profile Creation Wizard Introduction
- **Stand-alone Process Server Profile Creation/Augmentation Flow**
- Deployment Manager Profile Creation/Augmentation Flow
- Custom Profile Creation/Augmentation Flow
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This section will cover wizard flow for the stand-alone profile.

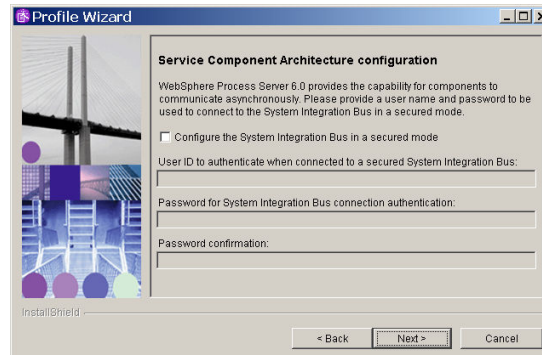
Stand-alone Process Server Profile Creation/Augmentation Flow

- Same flow as the WebSphere Application Server Profile Creation Wizard plus additional Process Server specific screens
- Following screens are in common with WebSphere Application Server:
 - ▶ Profile Name
 - ▶ Profile Directory
 - ▶ Node and host names
 - ▶ Port value assignment
 - ▶ Windows service definition (Windows only)



The stand-alone profile for the WebSphere Process Server follows the same flow as the WebSphere Application Server Profile Creation Wizard with some additional Process Server specific screens. Screens such as profile name, profile directory, node/host names, and port value assignment are the same as the profile wizard for WebSphere Application Server.

Service Component Architecture Configuration

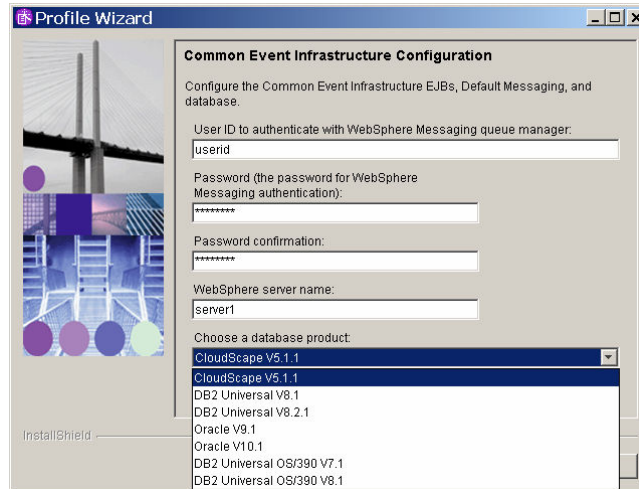


- User ID& Password are required when the check box is checked
- This can also be configured from the Administrative Console after profile creation

The core technology that allows a process server application to run is Service Component Architecture (SCA), which configured first in the profile creation wizard. A userid and password are required when the check box is checked to configure the SI Bus for running in a secured mode or you can configure security from the Administrative Console after profile creation.

Common Event Infrastructure (CEI) Configuration

- User ID and Password for Messaging are required
- No additional configuration needed if the default database, CloudScape, is used
- DB2® and Oracle require additional configuration
- If DB2 Universal OS/390 V7.1 or DB2 Universal OS/390® V8.1 is selected, data source and database must be created and configured outside of the Profile Wizard.



Common Event Infrastructure or CEI technology uses open-standard Common Base Events (CBE) to communicate events, errors, and faults. A user ID and password are required for the messaging engine and no additional configuration is needed if default CloudScape database is used. DB2 and Oracle are supported with additional configuration required.

If DB2 Universal OS/390 V7.1 or DB2 Universal OS/390 V8.1 is selected, the data source and database must be created and configured outside of the Profile Wizard.

Review the following topic in the information center: **Installing > Configuring the product after installation > Configuring the Common Event Infrastructure > Post-installation configuration > Configuring the event database > Configuring a DB2 database on a z/OS system**

CEI Additional DB2 Configuration

- Use the “generate scripts” option to be able to review and run the scripts later, or if the database already exists
- User ID and Password are required and must already exist
- Default database name is event but can be changed
- Database name should be 8 characters or less

The screenshot shows a window titled "Profile Wizard" with a sub-dialog titled "Additional Database Configuration Information for Common Event Infrastructure". The dialog contains the following fields and options:

- A message: "Due to the database product that you installed, additional information is required."
- Two radio buttons:
 - Create new database objects on an existing instance (oci)
 - Generate scripts to create new database
- Text input field: "Database instance name (sid):"
- Text input field: "User ID to create in the database:"
- Text input field: "Password (the password for the created user id):"
- Text input field: "Password confirmation:"
- Buttons: "< Back", "Next >", and "Cancel"

If setting up CEI with a DB2 database instead of the default Cloudscape database, use the “generate scripts” option to review and run the scripts later, or if the database already exists. The user ID and password are required and must already exist, meaning the database will have to be already be created in the database utility. The default database name is event, but it is recommended that you change it to match the database name already set up or a more meaningful database name of 8 characters or less for CEI.

CEI Additional DB2 Configuration (continued)

- DB2 Universal drivers are shipped with the Process Server and their location is used for the default value
- This is great for connecting to a remote DB2 server
- Looks for the db2jcc.jar file in that directory
- Database server name and Server port are only used for JDBC™ Driver Type 4
- Database node name is only used for connecting to a remote DB2 server

The screenshot shows a window titled "Profile Wizard" with a sub-header "Additional Database Configuration Information for Common Event Infrastructure". Below the sub-header, it states "Due to the database product that you installed, additional information is required." The form contains the following fields and controls:

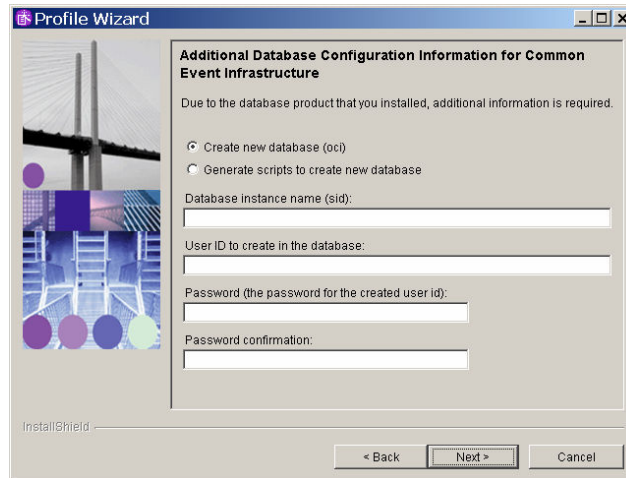
- Location (directory) of JDBC driver classpath files: A text box containing "E:\WPSUniversalDriver_wbi\lib" and a "Browse..." button.
- JDBC Driver Type: Two radio buttons, "2" and "4". The "4" radio button is selected.
- Database server name: A text box containing "localhost".
- Server port: A text box containing "50000".
- Database node name, if DB2 server remote: An empty text box.

At the bottom of the dialog, there are three buttons: "< Back", "Next >", and "Cancel". The "Next >" button is highlighted. The text "InstallShield" is visible in the bottom left corner of the dialog.

DB2 Universal drivers are shipped with the Process Server and their location is used for the default value. These can be used to connect to a remote DB2 server. The profile creation tool looks for the db2jcc.jar file in that default directory. The database node name is only used for connecting to a remote DB2 server and the database server name and server port are only used for JDBC Driver Type 4.

CEI Additional Oracle Configuration

- Use the “generate scripts” option to be able to review and run the scripts later, or if the database already exists
- A database instance name or Oracle SID is required
- User ID & Password are created for the database and don't have to already exist

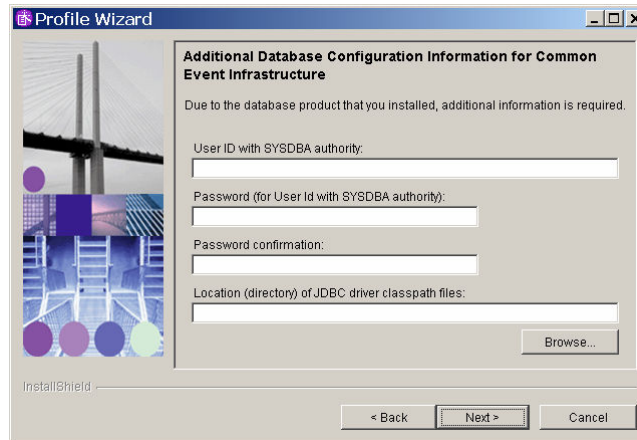


The screenshot shows a window titled "Profile Wizard" with a sub-header "Additional Database Configuration Information for Common Event Infrastructure". Below the sub-header, it states: "Due to the database product that you installed, additional information is required." There are two radio button options: "Create new database (oci)" (which is selected) and "Generate scripts to create new database". Below these are four text input fields: "Database instance name (sid):", "User ID to create in the database:", "Password (the password for the created user id):", and "Password confirmation:". At the bottom of the dialog are three buttons: "< Back", "Next >", and "Cancel".

If Oracle will be used to handle the messaging database for CEI, again use the “generate scripts” option to review and run the scripts later, or if the database already exists . A database instance name or Oracle SID is required and the user ID and password are created for the database and do not have to already exist.

CEI Additional Oracle Configuration (continued)

- Specify a User ID and Password with SYSDBA authority in order to create the database
- Looks for the “classes12.zip” file in the directory specified for the JDBC driver classpath files



The screenshot shows a window titled "Profile Wizard" with a sub-header "Additional Database Configuration Information for Common Event Infrastructure". Below the sub-header, it states "Due to the database product that you installed, additional information is required." The form contains three input fields: "User ID with SYSDBA authority:", "Password (for User Id with SYSDBA authority):", and "Password confirmation:". Below these is a field for "Location (directory) of JDBC driver classpath files:" with a "Browse..." button. At the bottom of the window are buttons for "< Back", "Next >", and "Cancel".

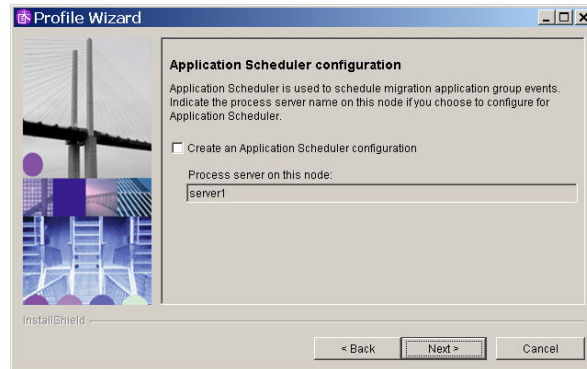
For Oracle, specify a User ID and Password with SYSDBA authority in order to create the database. The profile creation wizard looks for the “classes12.zip” file in the directory specified for the JDBC driver classpath files.

Business Process Choreographer Configuration

- Do NOT create a sample for BPC if planning on doing a production level BPC configuration for this profile
- Production level BPC configuration is done using Administrative Console Wizards
- Removal of the Sample BPC configuration is a painful process
- Configuration with any database other than CloudScape requires the use of the Administrative Console Wizard

When configuring the business process choreographer, do not create a sample for BPC if you plan on doing a production level BPC configuration for this profile. Production level BPC configuration is done using the Administrative Console Wizards and can be done after the Process Server is fully installed with a profile to run from. Removal of the Sample BPC configuration is a difficult process that can be avoided by not installing them. Configuration with a database other than CloudScape requires the use of the Administrative Console Wizard.

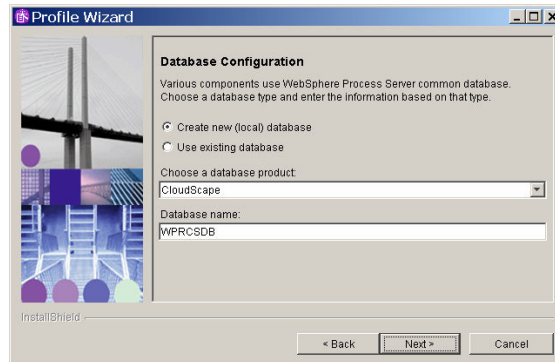
Application Scheduler Configuration



- By default, the server that is created on all Stand-alone Process Server profiles is called “server1”
- Should only need to change this on an augmentation where the server has been renamed or additional servers have been added

The Profile Creation Wizard also allows you to configure the application scheduler, which can be used to start and stop applications at certain times according to a schedule that you define. By default, the server that is created on all Stand-alone Process Server profiles is called “server1”. You should only need to change this on an augmentation where the server has been renamed or additional servers have been added.

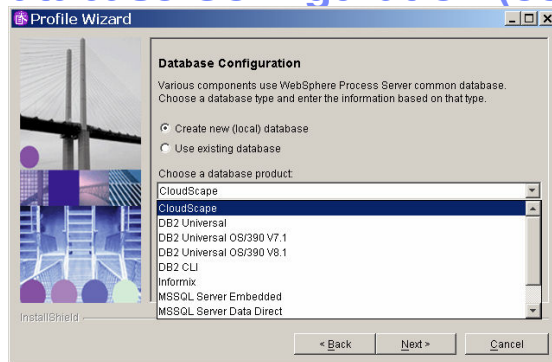
Database Configuration



- Creation of a new database is only supported if the database is local, must already have a database created to connect to if remote
- Database name default of WPRCSDB was changed from WPSDB which conflicts with the WebSphere Portal Server database

The Process Server uses a central database to run applications and correlate data. The name of this database is the WPRCSDB, not the WPSDB, which conflicts with the WebSphere Portal Server database. Creation of a new database is only supported if the database is local, so if you are connecting to a remote database, that database must already exist.

Database Configuration (continued)



- Cannot create a new database if using DB2 Universal OS/390 V7.1, DB2 Universal OS/390 V8.1, Oracle OCI, or Oracle Thin as database product
 - ▶ The database should be already created
- Cloudscape is not supported in an ND environment
 - ▶ only supported on Stand-Alone Process Server profiles
- The business rule group and selector components support only DB2 Universal, DB2 Universal OS/390 V7.1, DB2 Universal OS/390 V8.1, DB2 CLI, Oracle OCI (Oracle OCI client) and Oracle Thin (Oracle Thin) for their repository.
 - ▶ If selected database is different from the ones supported, all components, except the business rule group and selector components, will be configured to use the database specified; the business rule group and selector components will be configured to use Cloudscape.

DB2 Universal OS/390, Oracle OCI and Oracle Thin client (below the scroll bar on this screen) configuration require that the WPRCSDB database is already created. Cloudscape is not supported in an ND environment (only supported on Stand-Alone Process Server profiles).

The business rule group and selector components support only DB2 Universal, DB2 Universal OS/390 V7.1, DB2 Universal OS/390 V8.1, DB2 CLI, Oracle OCI (Oracle OCI client) and Oracle Thin client for their repository. If the selected database is different from the ones supported, all components except the business rule group and selector components will be configured to use the database specified and the business rule group and selector components will be configured to use Cloudscape.

Database Configuration – DB2 Universal

- First parameter only displayed for “Create new (local) database”
 - This is the physical install location of DB2
- Default DB2 drivers provided same as CEI
- Many variations on this screen depending on the database product and create or use existing database

The screenshot shows the 'Profile Wizard' dialog box with the following fields and options:

- Additional Database Configuration Information**: Due to the database product that you selected, additional information is required.
- Directory of database server installation:** A text input field with a 'Browse...' button.
- User ID to authenticate with the database:** A text input field.
- Password (the password for database authentication):** A text input field.
- Password confirmation:** A text input field.
- Location (directory) of JDBC driver classpath files:** A text input field containing the path 'E:\WPS\universalDriver_wbi\lib' and a 'Browse...' button.
- Server port:** A text input field containing the value '50000'.

At the bottom of the dialog are buttons for '< Back', 'Next >', and 'Cancel'. The 'InstallShield' logo is visible in the bottom left corner of the dialog.

With the WPRCSDB, the first parameter is only displayed for “Create new (local) database” and is the physical install location of DB2. Default DB2 drivers provided are the same as with CEI. There are many variations on this screen depending on the database product and whether you select create or use existing database.

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- Profile Creation Wizard Introduction
- Stand-alone Process Server Profile Creation/Augmentation Flow
- **Deployment Manager Profile Creation/Augmentation Flow**
- Custom Profile Creation/Augmentation Flow
- Troubleshooting
- Summary

This section will cover the Deployment Manager Profile Creation/Augmentation Flow.

Deployment Manager Profile Creation Flow

- Same flow as the Application Server Profile Creation Wizard plus additional Process Server specific screens
- Following screens are in common with Application Server:
 - ▶ Profile Name
 - ▶ Profile Directory
 - ▶ Node, host, and cell names
 - ▶ Port value assignment (different than stand-alone ports)
 - ▶ Windows service definition (Windows only)
- Additional screens that follow are the same for profile augmentation



The deployment manager profile creation has the same flow as the Application Server Profile Creation Wizard with a few additional Process Server specific screens. Again the profile name, profile directory, node, host, cell names, port value assignment, and Windows service definition screens (Windows only) are the same as with the Application Server. However, the deployment manager uses different ports than the stand-alone profile. Additional screens that follow are the same for profile augmentation.

Deployment Manager Profile Augmentation Flow

- Service Component Architecture configuration
 - ▶ Same as Stand-alone Process Server profile
- Database Configuration
 - ▶ Same as Stand-alone Process Server profile
 - ▶ Except that CloudScape is not supported and default database is DB2 Universal
- The business rule group and selector components support only DB2 Universal, DB2 Universal OS/390 V7.1, DB2 Universal OS/390 V8.1, DB2 CLI, Oracle OCI (Oracle OCI client) and Oracle Thin (Oracle Thin) for their repository.
 - ▶ If selected database is different from the ones supported, the repository database needs to be configured manually for the business rule group and selector components
 - ▶ For information on configuring the repository database for the business rule group and selector components manually, see the following topic in this information center: **Administering WebSphere Process Server > Administering applications and application services > Business rules > Installing the business rules dynamic repository for network deployment.**

The Service Component Architecture (or SCA) configuration is the same as a Stand-alone Process Server profile. However, the database configuration is different in that CloudScape is not supported and the default database is DB2 Universal. The business rule group and selector components support only DB2 Universal, DB2 Universal OS/390 V7.1, DB2 Universal OS/390 V8.1, DB2 CLI, Oracle OCI (Oracle OCI client) and Oracle Thin client for their repository.

If the selected database is different from the ones supported, the repository database must be configured manually for the business rule group and selector components.

For more details see the following topic in the information center: **Administering WebSphere Process Server > Administering applications and application services > Business rules > Installing the business rules dynamic repository for network deployment.**

Section

- Profile Creation Wizard Introduction
- Stand-alone Process Server Profile Creation/Augmentation Flow
- Deployment Manager Profile Creation/Augmentation Flow
- **Custom Profile Creation/Augmentation Flow**
- Troubleshooting
- Summary

This section will cover the Custom Profile Creation and Augmentation Flow.

Custom Profile Creation Flow

- Same flow as the Application Server Profile Creation Wizard plus additional Process Server specific screens
- Following screens are in common with the Application Server:
 - ▶ Federation
 - ▶ Profile Name
 - ▶ Profile Directory
 - ▶ Node and Host Names
- Additional screens are same as for profile augmentation

Custom profile creation has the same flow as the Application Server Profile Creation Wizard with some additional Process Server specific screens, such as Federation, Profile Name, Profile Directory, Node, and Host Names. Additional screens are the same as for profile augmentation.

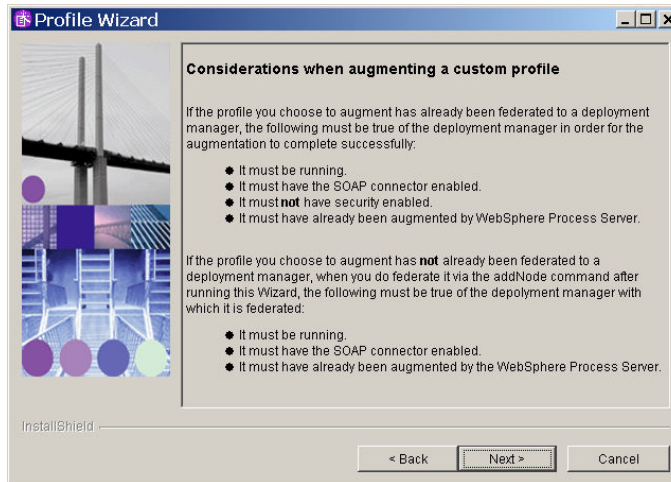
Custom Profile Augmentation Flow

- Considerations when augmenting a custom profile
 - ▶ warning window will be displayed
- Database Configuration
 - ▶ Different than other profile types

There are several considerations when augmenting a custom profile. For instance, the augmentation warnings will be displayed on the “considerations” window in the profile augmentation process and the database configuration is different than with other profile types.

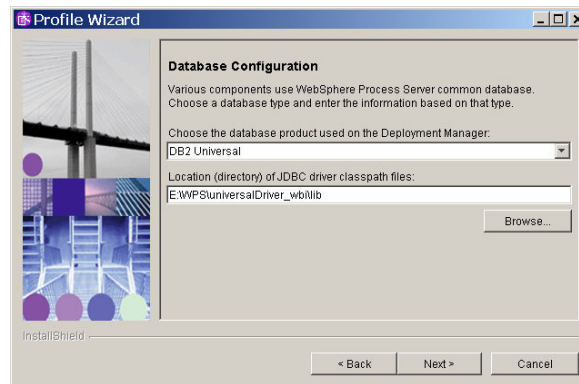
Considerations when augmenting a custom profile

- Augmentation of an already federated profile is NOT supported in 6.0.1
- All federation will be done afterwards using the addNode command



For example, the considerations warning shown here will appear. The main warning is that augmentation of an already federated profile is NOT supported in V6.0.1. Node federation must be done afterwards using the addNode command.

Database Configuration – Custom Profile



- Assumes a remote connection to an existing database that was defined by the Deployment Manager profile
- The business rule group and selector components support only DB2 Universal, DB2 Universal OS/390 V7.1, DB2 Universal OS/390 V8.1, DB2 CLI, Oracle OCI (Oracle OCI client) and Oracle Thin (Oracle Thin) for their repository.
 - ▶ If selected database is different from the ones supported, the repository database needs to be configured manually for the business rule group and selector components
- Default JDBC drivers for DB2 are provided

The database configuration for a custom profile assumes a remote connection to an existing database was defined by the Deployment Manager profile. Again, the default JDBC drivers for DB2 are provided in the Process Server directory.

The business rule group and selector components support only DB2 Universal, DB2 Universal OS/390 V7.1, DB2 Universal OS/390 V8.1, DB2 CLI, Oracle OCI (Oracle OCI client) and Oracle Thin client for the repository.

If the selected database is different from the ones supported, the repository database must be configured manually for the business rule group and selector components.

For information on configuring the repository database for the business rule group and selector components manually, see the following topic in this information center:

Administering WebSphere Process Server > Administering applications and application services > Business rules > Installing the business rules dynamic repository for network deployment.

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- Profile Creation Wizard Introduction
- Stand-alone Process Server Profile Creation/Augmentation Flow
- Deployment Manager Profile Creation/Augmentation Flow
- Custom Profile Creation/Augmentation Flow
- **Troubleshooting**
- Summary

This section will cover troubleshooting profile creation or augmentation.

Common Problems/Mistakes/Pitfalls

- Profile Creation and Augmentation problems on Windows
 - ▶ Problems caused by path length limit of 256 characters on Windows
 - ▶ Limit the size of the following to help
 - Process Server Install Path
 - Heavily recommend not to use the default install location
 - Host name
 - keep machine names short
 - Node Name
 - Keep node name short and meaningful
 - Profile Name
 - Again, keep it short and meaningful



The most common pitfall with profile creation and augmentation on Windows is related to the Windows limitation of 256 characters in a path length. Therefore, you should create the profile as close to the root drive as possible (for example C:/ProcServer/profile1/). You should limit the length of the Process Server install path and it is highly recommend that you not use the default install location, host name, node name, and profile name. All names and paths should be kept short and meaningful.

Known Limitations

- Cannot augment an already federated custom profile
 - ▶ There is a technote on how to unfederate a node
- There are a number of accessibility problems with the Install and Profile Wizard GUIs
 - ▶ There are a number of technotes written on these problems

There are a few limitations to discuss for the Process Server. For example, augmentation of an already federated custom profile is not supported. Instructions for how to unfederate a node can be found in the Information Center and product support site. There are a number of accessibility problems with the Install and Profile Wizard GUIs and again there are technotes covering these problems, which can be found at the Process Server support page from www.ibm.com.

What to gather to debug an install problem

- Use collector.bat (send to IBM Support)
- The full set of files to immediately gather are:
 - ▶ <profilePath>/logs/* (zip recursively)
 - ▶ <profilePath>/properties/*
 - ▶ <WPS_HOME>/logs/wasprofile/*<profileName>*
 - ▶ <WPS_HOME>/logs/wbi/*
 - ▶ <WPS_HOME>/properties/profileRegistry.xml
 - ▶ <WPS_HOME>/properties/wasprofile.properties



In order to help debug a problem or find out what to send to IBM support, use the collector.bat. The collector.bat will combine the following files that help debug a problem if they are gathered immediately after a problem or failure.

```
<profilePath>/logs/* (zip recursively)
<profilePath>/properties/*
<WPS_HOME>/logs/wasprofile/*<profileName>*
<WPS_HOME>/logs/wbi/*
<WPS_HOME>/properties/profileRegistry.xml
<WPS_HOME>/properties/wasprofile.properties
```


Profile Logging

- `pcatLog<timestamp>.txt`
 - ▶ On Linux and UNIX platforms: `profile_root/logs/pcatLog<timestamp>.txt`
 - ▶ On Windows platforms: `profile_root\logs\pcatLog<timestamp>.txt`
 - ▶ If this file does not exist in this directory on the system, profile creation failed early in the process
 - In this case, review the `pcatLog.txt` file in the `user_home` directory
 - ▶ Logs all events that occur when a default profile is created during a Complete installation or when the Profile Wizard is run
 - ▶ Three different results
 - **INSTCONFFAILED**
 - Total profile creation failure
 - **INSTCONFPARTIALSUCCESS**
 - Profile creation errors occurred but the profile is still functional
 - Check additional information in process server log files to identify the errors
 - **INSTCONFSUCCESS**
 - Successful profile creation

The profile log file is the `pcatLog`, which appears as `pcatLog<timestamp>.txt` in the `profile_root/logs` directory. If this file does not exist in this directory on the system, then profile creation failed early in the process. In this case, review the `pcatLog.txt` file in the `user_home` directory. The `pcatLog` contains all events that occur when a default profile is created during a complete installation or when the Profile Wizard is run. There are three possible results when looking at the `pcatLog`. **INSTCONFFAILED** means that profile creation failed. **INSTCONFPARTIALSUCCESS** means profile creation errors occurred but the profile is still functional. Check additional information in process server log files to identify specific errors. **INSTCONFSUCCESS** means that profile creation was successful.

Profile Creation Logging

- `wasprofile_create_profile_name.log`
 - ▶ On Linux and UNIX platforms:
`install_root/logs/wasprofile_create_profile_name.log`
 - ▶ On Windows platforms:
`install_root\logs\wasprofile_create_profile_name.log`
 - ▶ Traces all events that occur during the creation of the named profile
 - ▶ Created during a Complete Installation or when using the Profile Wizard
 - ▶ Three different results
 - **INSTCONFFAILED**
 - Total profile creation failure
 - **INSTCONFPARTIALSUCCESS**
 - Profile creation errors occurred but the profile is still functional
 - Check additional information in process server log files to identify the errors
 - **INSTCONFSUCCESS**
 - Successful profile creation



Another log file to check when creating a profile is `wasprofile_create_profile_name.log` located in the `install_root/logs` directory. This log traces all events that occur during the creation of the named profile and again is created during a complete Installation or when using the profile wizard. Like the `pcatLog`, there are three different results when looking at the `wasprofile_creat_profile_name.log` after a profile has been created (complete install); **INSTCONFFAILED**, **INSTCONFPARTIALSUCCESS**, and **INSTCONFSUCCESS**.

Profile Augmentation Logging

- `wasprofile_augment_profile_name.log`
 - ▶ On Linux and UNIX platforms:
`install_root/logs/wasprofile_augment_profile_name.log`
 - ▶ On Windows platforms:
`install_root\logs\wasprofile_augment_profile_name.log`
 - ▶ Traces all events that occur during the augmentation of the named profile
 - ▶ Three different results
 - **INSTCONFFAILED**
 - Total profile creation failure
 - **INSTCONFPARTIALSUCCESS**
 - Profile creation errors occurred but the profile is still functional
 - Check additional information in process server log files to identify the errors
 - **INSTCONFSUCCESS**
 - Successful profile creation

As with the `wasprofile_create_profile_name.log`, there is a separate log for augmenting a profile. The `wasprofile_augment_profile_name.log` is located in the `install_root/logs/` directory. This log traces all events that occur during the augmentation of the named profile and again there are three possible results; **INSTCONFFAILED**, **INSTCONFPARTIALSUCCESS**, **INSTCONFSUCCESS**.

Profile Template Logging

- Individual profile template action log files
 - ▶ In the directory *profile_root*/logs on Linux and UNIX systems and *profile_root*/logs on Windows systems
 - ▶ Typically it is the name of the .ant script that failed followed by ".log"
 - ▶ For example, if the following entry is in the wasprofile_augment_*profile_name*.log file:
 - <message>**Result of executing**
E:\o0536.15\profileTemplates\default.wbicore\actions\saveParamsWbiCore.ant was:
false</message>
 - ▶ Look for the corresponding log file for any failing .ant script entries. In this case, the log file created by the saveParamsWbiCore.ant script is saveParamsWbiCore.ant.log
 - ▶ Look at that file to investigate why the failure occurred



Each individual profile template has its own action log files, which can be found in the *profile_root*/logs directory. Typically it is the name of the .ant script that failed followed by ".log". For example, if the following entry is in the wasprofile_augment_*profile_name*.log file: <message>**Result of executing**
E:\o0536.15\profileTemplates\default.wbicore\actions\saveParamsWbiCore.ant was:
false</message>. Look for the corresponding log file for any failing .ant script entries. In this case, the log file created by the saveParamsWbiCore.ant script is saveParamsWbiCore.ant.log. Look at that file to investigate why the failure occurred.

Recovering from profile creation/augment failure

- Each log file must contain the "INSTCONFSUCCESS"
- If a file does not include this entry, a failure was detected
- Following is a list of log files to look at in the order given
 1. Log file created by the Profile Wizard
 - ▶ The name of the file is partially based on a timestamp and is in the form pcatLogNNNNNNNNNNNNNN.txt, where NNNNNNNNNNNNN is the timestamp number
 2. Log file wasprofile_create_profile_name.log
 - ▶ Search for the text "Result of executing" and verify that each occurrence ends with "true."
 3. Log file wasprofile_augment_profile_name.log
 - ▶ Search for the text "Result of executing" and verify that each occurrence ends with "true."
 4. Individual profile template action log files
 - ▶ If discovered "false" values in the log files described in steps 2 and 3 above, review these log files
 - ▶ These log files do not follow a consistent naming convention, but typically, it is the name of the .ant script that failed followed by ".log"

This slide shows a list of log files to look at in the order given. Each log file must contain the entry "INSTCONFSUCCESS." If a file does not include this entry, that means a failure was detected. First, check the log file created by the Profile Wizard. The name of the file is partially based on a timestamp and is in the form pcatLogNNNNNNNNNNNNNN.txt, where NNNNNNNNNNNNN is the timestamp number. This file can be found in the *profile_root/logs* directory.

Next, check the wasprofile_create_profile_name.log, located in the *install_root/logs/wasprofile* directory. Search for the text "Result of executing" and verify that each occurrence ends with "true."

Next, check the wasprofile_augment_profile_name.log, located in the *install_root/logs/wasprofile* directory. Search for the text "Result of executing" and verify that each occurrence ends with "true."

Finally, check the Individual profile template action log files. If you discovered "false" values in the log files described in steps 2 and 3 above, review these log files in the *profile_root/logs* directory. These log files do not follow a consistent naming convention, but typically, it is the name of the .ant script that failed followed by ".log".

Recovering from profile creation failure

- After determining why profile creation failed and addressing the cause of the failure, try to create the profile again
- When creating a profile using the WebSphere Process Server Profile Wizard
 - ▶ the wizard first creates a WebSphere Application Server profile
 - ▶ then augments it with WebSphere Process Server profile templates to create a WebSphere Process Server profile
- When encountered with a profile creation failure
 - ▶ a profile can exist that does not have all the needed augmentations (presumably because of the failure)
- To determine if the profile exists, run the command *install root/bin/wasprofile.sh -listProfiles* on Linux and UNIX systems or *install_root\bin\wasprofile.bat -listProfiles* on Windows systems
 - ▶ If the profile name used for creation does not exist, re-create the profile
 - ▶ If the profile name used for creation exists, then the profile was created and has encountered an augmentation failure
 - ▶ For tips on recovering from an augmentation failure, see the next section



After determining why profile creation failed and addressing the cause of the failure, try to create the profile again.

When creating a profile using the WebSphere Process Server Profile Wizard, the wizard first creates a WebSphere Application Server profile and then augments it with WebSphere Process Server profile templates to create a WebSphere Process Server profile. When profile creation fails, a profile can exist that does not have all the necessary augmentations (presumably because of the failure). To determine if the profile exists, run the command *install root/bin/wasprofile.sh -listProfiles*. If the profile name used for creation does not exist, recreate the profile. If the profile name does exist, then the profile was created and has encountered an augmentation failure. The following section will provide tips on recovering from an augmentation failure.

Recovering from profile augmentation failure

- After determining why profile augmentation failed and addressing the cause of the failure, try to augment the existing profile again to successfully create a complete WebSphere Process Server profile
- Start the Profile Wizard
 - ▶ Instead of creating a new profile, choose to augment an existing profile
 - ▶ Choose the profile and enter the correct information for it
- Some of the augmentations may have completed successfully the first time Profile Wizard was run
 - ▶ As a result, not all the panels that were presented the first time will be displayed
 - ▶ This is because the Profile Wizard detects which remaining augmentations must be completed and displays only the necessary panels



After determining why profile augmentation failed and addressing the cause of the failure, try to augment the existing profile again to successfully create a complete WebSphere Process Server profile.

start the Profile Wizard, and instead of creating a new profile, choose to augment an existing profile.

Choose the profile and enter the correct information for it

Some of the augmentations may have completed successfully the first time Profile Wizard was run

As a result, not all the panels that were presented the first time will be displayed

This is because the Profile Wizard detects which remaining augmentations must be completed and displays only the necessary panels

Profile Wizard Release Notes and Technotes

- No support for profile augmentation using wasprofile command-line tool
 - ▶ Do all profile augmentation using the Profile Wizard, which can be run silently
- WebSphere Process Server does not support augmenting a federated profile
 - ▶ Separate technote available on how to unfederate a profile
- Profile directory path length limit of 256 characters on Microsoft Windows Operating Systems
- Remove augmentations before manually deleting a profile using command line utility
 - ▶ Before manually deleting a WebSphere Process Server profile, remove all augmentations that have been made to it.
- Warning messages in Profile Wizard log file - missing profileRegistry.xml file
 - ▶ Ignore the warning messages because this is expected behavior.
- Profile Wizard can lead user to incorrectly delete the default directory when federating a custom profile and deployment manager is not available
 - ▶ Do not follow the deletion directions on this panel
 - ▶ It appears when creating a custom profile, the deployment manager indicated to federate it to was not running or available



Here are a few tips from the Release Notes and Technotes found on the Process Server support page from www.ibm.com. There is no support for profile augmentation using wasprofile command-line tool, so all profile augmentation is done using the Profile Wizard, which can be run silently. WebSphere Process Server does not support augmenting a federated profile. There is a profile directory path length limit of 256 characters on Windows systems.

You should remove augmentations before manually deleting a profile using command line utility

Ignore the missing profileRegistry.xml file messages in profile wizard logs.

The Profile Wizard can incorrectly lead you to delete the default directory when federating a custom profile and when the deployment manager is not available. Do not follow the deletion directions on this panel. These appear when creating a custom profile when the deployment manager indicated to federate to was not running or available.

Section

- Profile Creation Wizard Introduction
- Stand-alone Process Server Profile Creation/Augmentation Flow
- Deployment Manager Profile Creation/Augmentation Flow
- Custom Profile Creation/Augmentation Flow
- Troubleshooting
- **Summary**

This section will provide a summary of this presentation.

Summary

- Discussed Profile creation and augmentation for WebSphere Process Server V6.0.1 profiles
- Covered a profile wizard introduction and initial information on profiles
- Stepped through creation and augmentation of the 3 types of profiles for WebSphere Process Server V6.0.1
 - ▶ stand-alone
 - ▶ deployment manager
 - ▶ custom profiles
- Discussed troubleshooting topics like known limitations, best practices, and debugging/logging information

In this presentation, profile creation and augmentation for WebSphere Process Server V6.0.1 profiles was discussed. A profile wizard introduction and initial information on profiles was covered. Next, profile creation and augmentation of the 3 types of profiles for WebSphere Process Server V6.0.1 (stand-alone, deployment manager, and custom profiles) was covered. Finally, troubleshooting topics such as known limitations, best practices, and debugging/logging information for the Profile Wizard in WebSphere Process Server V6.0.1 was discussed.

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