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Workforce Management Administrator's Guide

Manually Creating and Configuring WFM Application Objects

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Manually Creating and Configuring WFM Application Objects

This topic contains information and procedures that will help you to use Configuration Manager and other tools to manually create Workforce Management (WFM) Application objects and perform other configurations manually. It contains the following sections:

- [Manually Create the Application Objects](#)
- [WFM Daemon Setup](#)
- [Manually Create the WFM Solution Object](#)
- [Manually Change Configuration Server Host and Port](#)
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Manually Create the Application Objects

If you are familiar with Configuration Manager, you might choose to create and configure the component Application objects manually, rather than using the wizards. See [Creating Application Objects Manually](#).

Tip

You might also want to install redundant WFM Servers. If so, see [Connect to Backup WFM Server](#).

WFM Daemon Setup

To successfully run WFM Daemon, you must set the correct SMTP server host and port. Depending on your configuration, you might also need to set the user name and password. For information about how to set these options, see the “SMTP Section” of [WFM Daemon Options](#).

To support automatic report creation, perform these configurations using Configuration Manager:

- In the WFM Web Application, set the Reports section variable ServerURL. See [Installing WFM Web as Report Server](#).
- In the WFM Web Application, set the Reports section variable PathToAutoGeneratedReports to the network path for storing generated reports. See [WFM Web Options](#).
- In the WFM Daemon Application, add a connection to the WFM Web Application that you installed as

the report server in [Installing WFM Web as Report Server](#).

For notifications to work successfully:

- Each agent and supervisor must have the proper e-mail set. As described in the [Workforce Management 8.1 Configuration Utility Help](#), e-mail addresses are initially defined in Configuration Manager as part of the Person object. Once e-mail addresses exist in the Configuration Database, you have the option of importing them into the WFM Database.
- The supplied SMTP server must be configured to accept e-mails for those addresses. Before anything can be sent, you must first configure notifications in the WFM Web for Supervisors, Configuration module, as described in [Workforce Management 8.1 Web for Supervisor Help](#).
- A Supervisor's ability to receive notifications depends on their security settings (see [User Security](#)). Supervisors must be granted rights to receive notifications for each notification type and have access to the agent teams for which they want to receive notifications, as described in [Workforce Management 8.1 Configuration Utility Help](#).

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Manually Create the WFM Solution Object

If you are using Management Layer, you must create the WFM Solution object and add the necessary components. If you have not yet imported the solution template and created the solution Application object, see [Importing the Solution Template](#).

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Manually Change Configuration Server Host and Port

When you run the Configuration Wizards, you enter the Configuration Server host and port information for the WFM servers. However, you might need to change this information after installing WFM.

Important

Editing a startServer.bat file is effective only if the server is started by using the .bat file. If you start the server manually from the control panel, or if it is started automatically as a Windows service, you must unregister the server and then re-register it. If you start the server using the Solution Control Interface (SCI), you must change the settings for the server in the server's Application object, by using Configuration Manager.

To update or change this information manually you can use one of two methods:

- Edit the startServer.bat file for each affected server.

- Unregister the servers and then reregister them, by using the updated host, port, and application name information.

For procedures that describe both methods, see [Editing the startServer.bat files](#) and [Using Server Registration to change the host and port information](#).

The startServer.bat files for each server are located in the same directory as the executable for that server.

Backup Configuration Server Host and Port

WFM Web supports backup Configuration Server during application startup with the addition of two new values in ConfigServer.properties file: BackupHost and BackupPort. These options are specified in the same way as the Host and Port options and have the same meaning, except that they specify how to connect to the backup Configuration Server. If the primary Configuration Server is not available, WFM Web uses this information to connect to the backup Configuration Server.

To configure these options manually, edit the ConfigServer.properties file in the Tomcat directory webapps\wfm\WEB-INF (assuming that WFM Web was deployed as wfm.war, otherwise wfm should be replaced with the specified name). In addition, the application name must be the same on both primary and backup Configuration Server.

For more information about configuring connections to backup Configuration Server, see [Connect to Backup Configuration Server](#).

Important

In 8.1.2, these options are not set automatically during application startup. By default they do not exist. Therefore, you must configure the options manually, as described above.

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Procedures

Click the red arrow to display a list of procedure related to the topics on this page.

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| - | Creating Application objects manually =

Purpose: To create WFM Application objects manually (not using the Configuration Wizards).

Start of Procedure

1. In Configuration Manager, open the Environment > Applications folder.

2. Right-click in the folder and select **New Application** from the shortcut menu that appears.
3. Browse to and select the appropriate application template from those you previously imported. If necessary, see [Import the WFM Templates](#) for instructions.
4. Enter the appropriate information in each tab of the **Application** object. If you need guidance, check the description for that component in [Install and Run the Configuration Wizards](#). The information on most of these tabs is familiar to regular users of Configuration Manager. Ensure the settings are correct on the **Connections** tab of each **Application** object. For the complete set of required connections, see [Table: WFM Component Connections](#).

End of Procedure

Next Steps:

- Manually configure the **Options** tab settings. For a list of options with default settings and descriptions, see [WFM Configuration Options](#).

|-| Creating and configuring a Solution object=

Purpose: To create and configure the WFM Solution object.

Start of Procedure

1. Double-click the **Workforce Management** solution to open its **Properties** dialog box.
 2. On the **Components** tab, add the servers that **Workforce Management** needs to run (see [Table: Definitions Tab Settings for WFM Solution Components](#)), where:
 - The **Components Definition** tab displays the preset component types with which the solution connects. The actual connections are configured on the **Components** tab, but you can use the **Components Definition** tab as a guide to the correct settings.
- **Application** is the name of the application that the **Workforce Management** solution runs.
 - **Optional** is the requirement status. **False** means that the application must run successfully for WFM to run. **True** means that the application is optional for WFM to run.
 - **Startup Priority** is the order in which to start the servers.

Warning

You cannot revise **Startup Priority** after you have configured it.

- Click **OK**.

Table: Definitions Tab Settings for WFM Solution Components

Application	Optional	Startup Priority
Message Server(s)	True	1
WFM Server	False	2

Application	Optional	Startup Priority
WFM Data Aggregator	False	3
WFM Builder	False	3
WFM Daemon	True	3

End of Procedure

|> Editing the startServer.bat files=

Purpose: To edit the WFM startServer . bat files.

Start of Procedure

1. To edit the WFM startServer . bat file, stop the WFM server.
2. Open the startServer.bat file in a text editor, such as WordPad.
3. Change the host and port information.
4. Save the edited file.
5. Restart the server.

End of Procedure

|> Using Server Registration to change the host and port information=

Purpose: To change the host and port for a server.

Summary: You can also change the host and port information for the servers by unregistering them as services and then reregistering them using the new host and port.

Start of Procedure

1. Execute the following command from the command line to unregister the installed service:

```
<server .exe filename> -remove
```

For example, WFMServer.exe -remove

2. Register the service with new host and port information:

```
<server .exe filename> -install -host "<hostname>" -port "<portnumber>" -app  
<applicationname>
```

For example, WFMServer.exe -install -host "Siamese" -port 4000 -app WFMServer_76

End of Procedure

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