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Costpoint DB Wizard Utility

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26 March 2026

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Costpoint DB Wizard Utility

Overview

The Costpoint DB Wizard Utility is a tool for Costpoint administrators. It allows administrators to apply configuration changes to the installed Costpoint software.

This guide walks the Administrator through the tasks that can be performed using the DB Wizard.

Prepare to Use the Costpoint DB Wizard Utility

The Costpoint DB Wizard requires the following file:

- **CPWebDBWizard.cmd**: This is the command file for starting the Costpoint DB Wizard utility.

Navigation

This tool has a typical wizard interface, in which you use several screens in a standard order.

- Click the **Previous** and **Next** buttons to navigate between the screens.
- Click the **Cancel** button to return to the main screen.
- Click the **Run** button to start the process.

Start the Utility

Launch the Utility

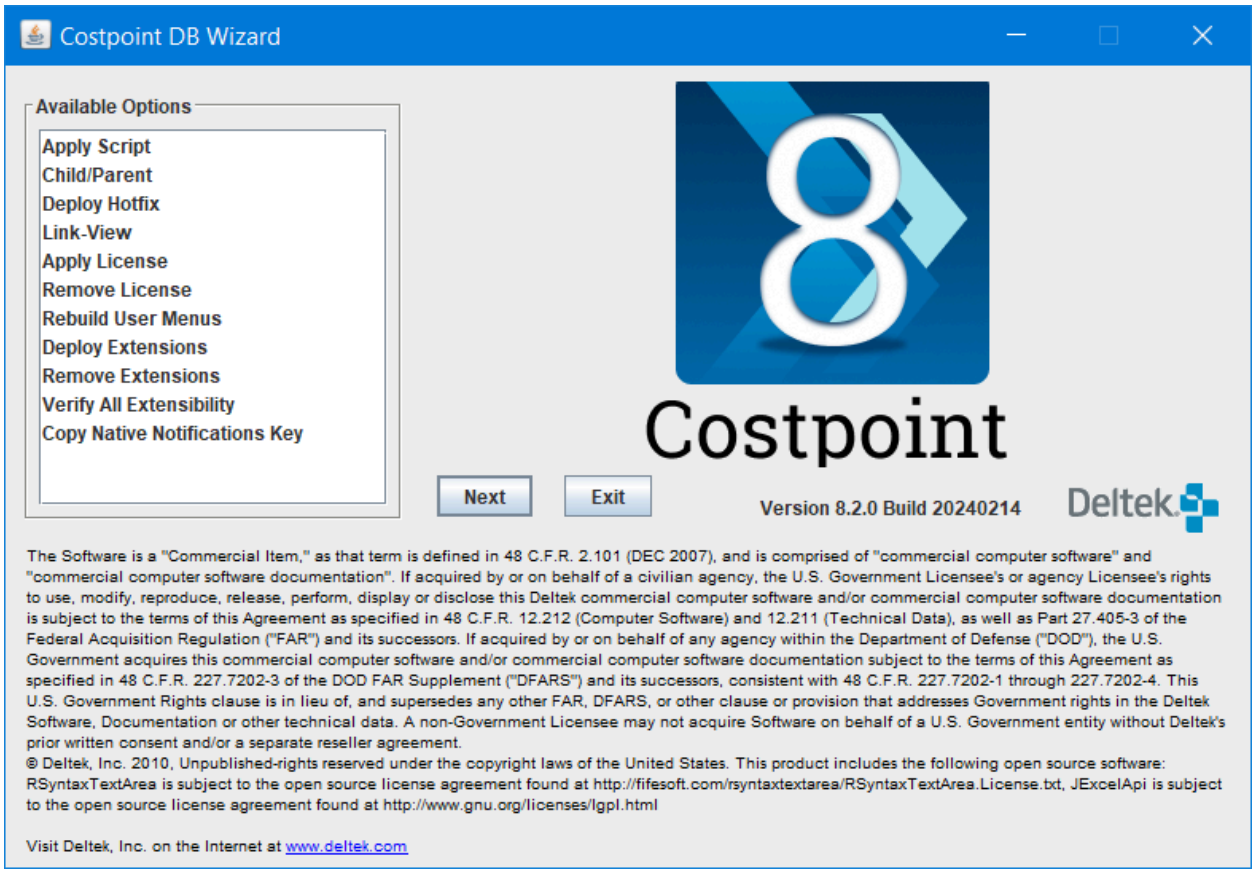
To start the DB Wizard utility:

1. Take one of the following actions:

   - Run the **CPWebDBWizard.cmd** batch file. It should be located with all other Costpoint command files in the \deltek\costpoint\82\bin folder.
   - Click **Start » Deltek » Costpoint » 82 » Start Costpoint 8.2.0 DB Wizard**.

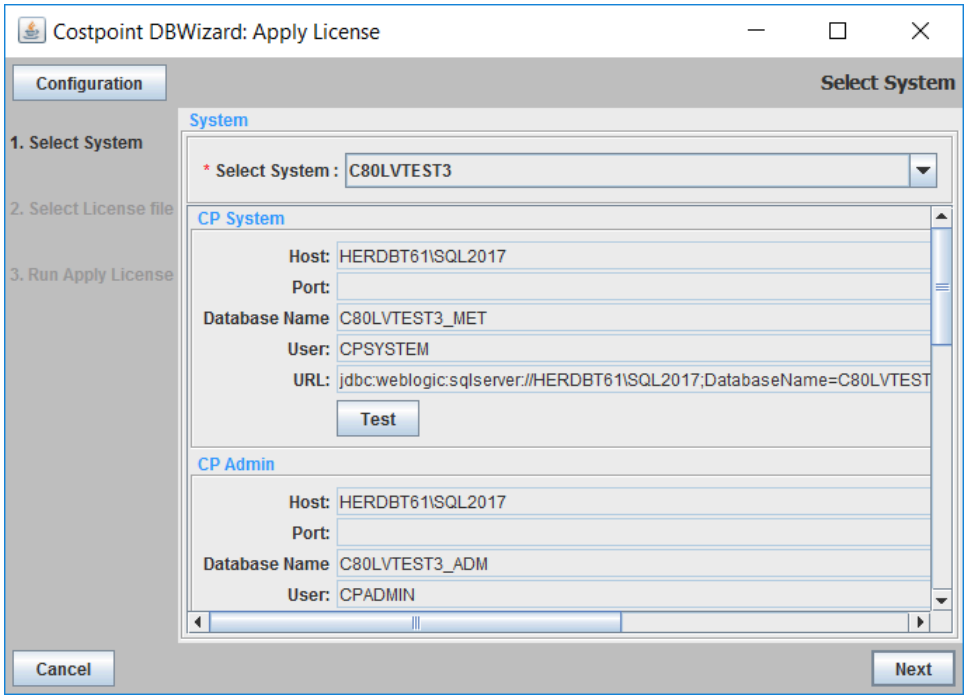
   The DB Wizard main screen displays.

2. Make a selection from the **Available options** list, and click **Next**.



Select a System

Any task you perform using this utility will start with the Select System screen. This screen allows you to select the particular system for the process you are about to perform and test your connection to the system.



The **Select System** field lets you choose from a list of available systems, and it is the only field on this screen that you can change.

When you select a system, the rest of the fields on the screen populate with data about the system. You cannot edit this data from within the DB Wizard. If you need to edit the data, use the Configuration Utility.

Attention: For information about the Configuration Utility, see the *Deltek Costpoint 8.0 Configuration Utility* guide.

Review Connection Data

Before you perform any DB Wizard tasks, check that the correct connection information displays for each of the three Costpoint databases (Meta, Admin, and Data) that are part of the system.

Test the Connection

Before you perform any DB Wizard tasks, click the **Test** button to test your connection to the each of the three databases (Meta, Admin, and Data) that are part of the system.

Apply Script Utility

You use the Apply Script utility to apply database scripts to a particular system's schema.

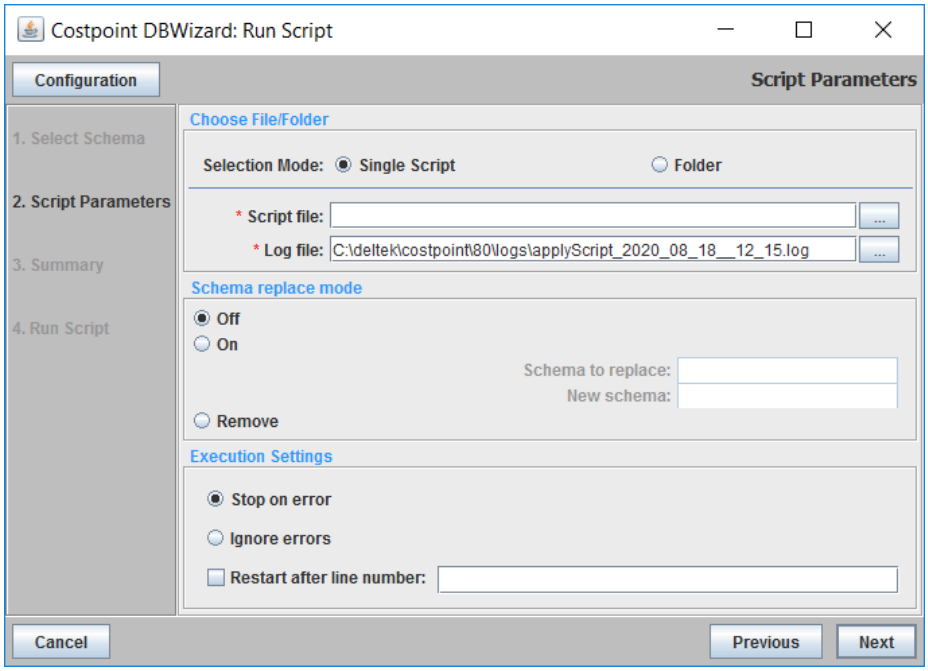
To run the Apply Script utility:

1. Start the Costpoint DB Wizard using the batch CPWebDBWizard.cmd file.

2. From the list of **Available options**, select **Apply Script**, and click **Next**.

3. Select the system and schema to use, and click **Next**.

   The Script Parameters page displays.



4. In the **Choose File/Folder** section, complete the following:

   - **Selection Mode**: Select either **Single script** or **Folder**.
   - **Script file**: Enter, or click the browse button to select, the path to the script file or folder where the script is located.
   - **Log file**: If necessary, change the log filename and/or path.

5. In the **Schema replace mode** section, complete the following:

   - **Off**: Select this option to turn off the schema replace mode. This is the default mode.
   - **On**: Select this option to turn on the schema replace mode, and enter the following information:

- **Schema to replace**: Enter the schema name to replace in the script.
- **New schema**: Enter the new schema name that will replace the name entered in the field above.

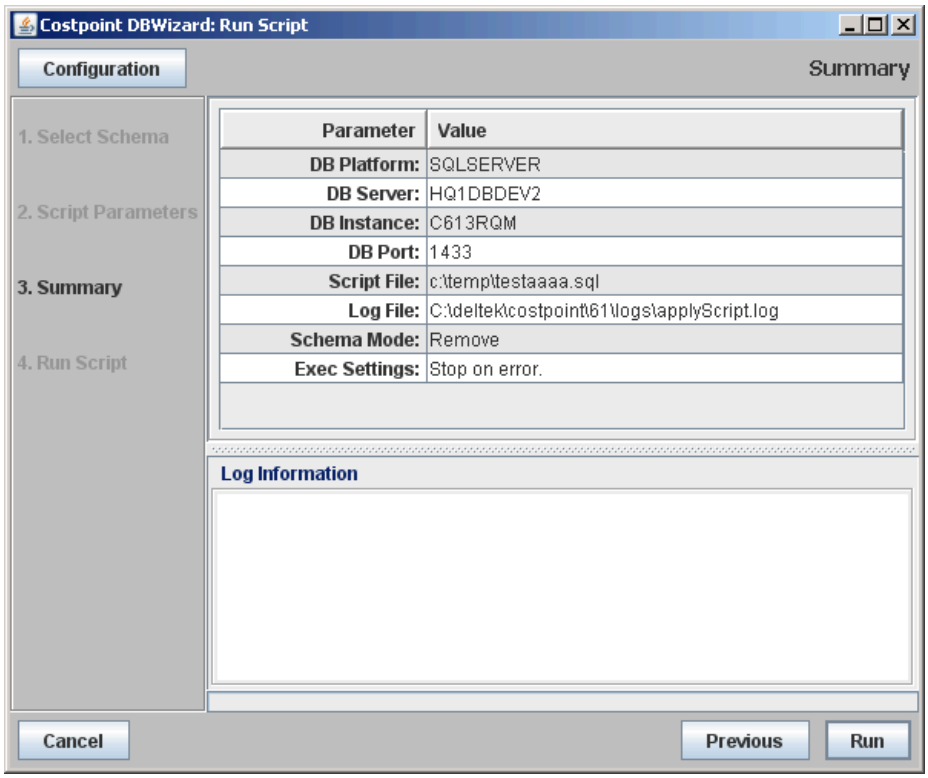
- **Remove**: Select this option to ignore any schema references and apply the script to the default database schema.

6. In the **Execution Settings** section, select how the utility handles errors when they occur:

   - **Stop on error**: Select this option to stop the process.
   - **Ignore errors**: Select this option to ignore errors and continue running the process until it reaches the end of the script.
   - **Restart after line number**: Select this check box and enter the line number from which to restart the script.
     Note: This check box is available only in **Single script** selection mode.

7. Click **Next**.

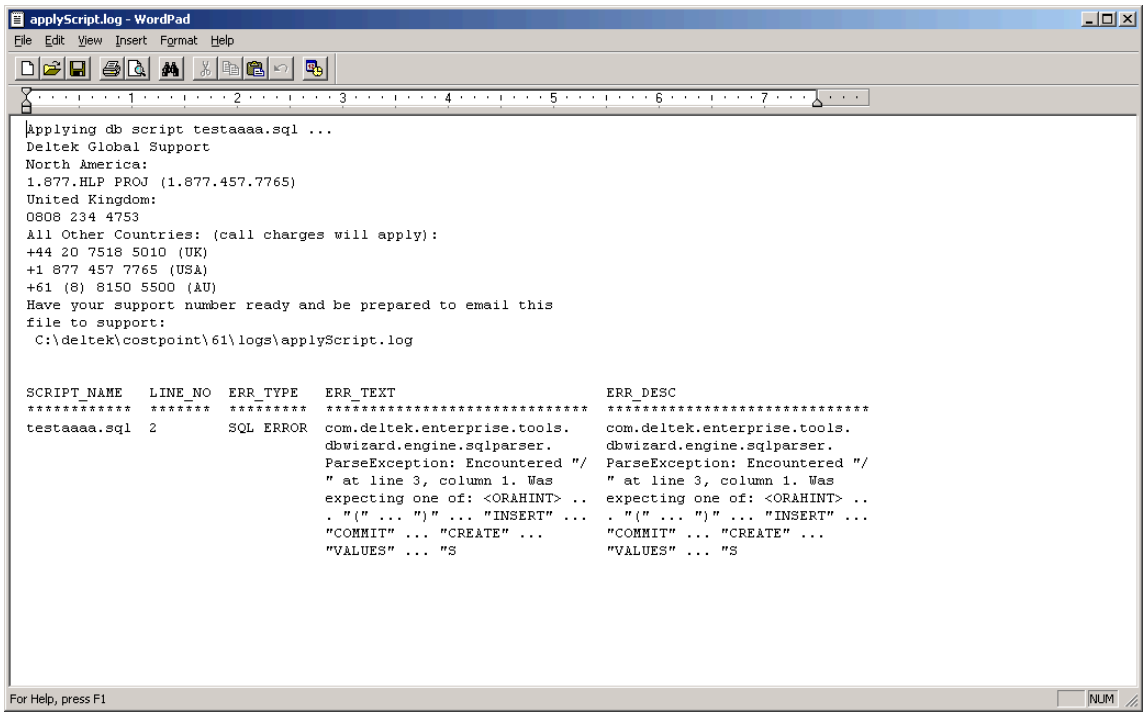
   The Summary page displays.



8. Verify that the system, script, logs, and modes information is correct, and click **Run** to start the process.

Error File

If the process fails for any reason, an error log similar to the following displays:



Child/Parent Utility

The Child/Parent utility reads each row in the Child table and checks the child/parent relationships. The utility then reports if there are orphaned rows in the Child table.

Note: This utility is helpful because, if there are child orphans, the foreign keys will fail to apply, causing problems in your system.

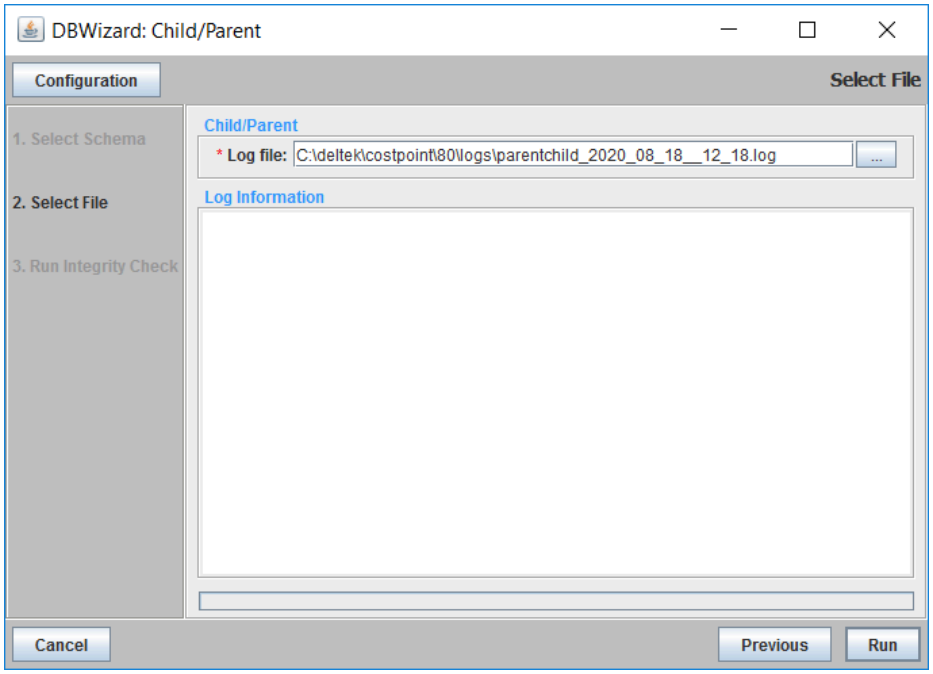
To run the Child/Parent utility:

1. Start the Costpoint DB Wizard using the batch CPWebDBWizard.cmd file.

2. From the list of **Available options**, select **Child/Parent**, and click **Next**.

3. Select the system and schema to use, and click **Next**.

   The Select File page displays.



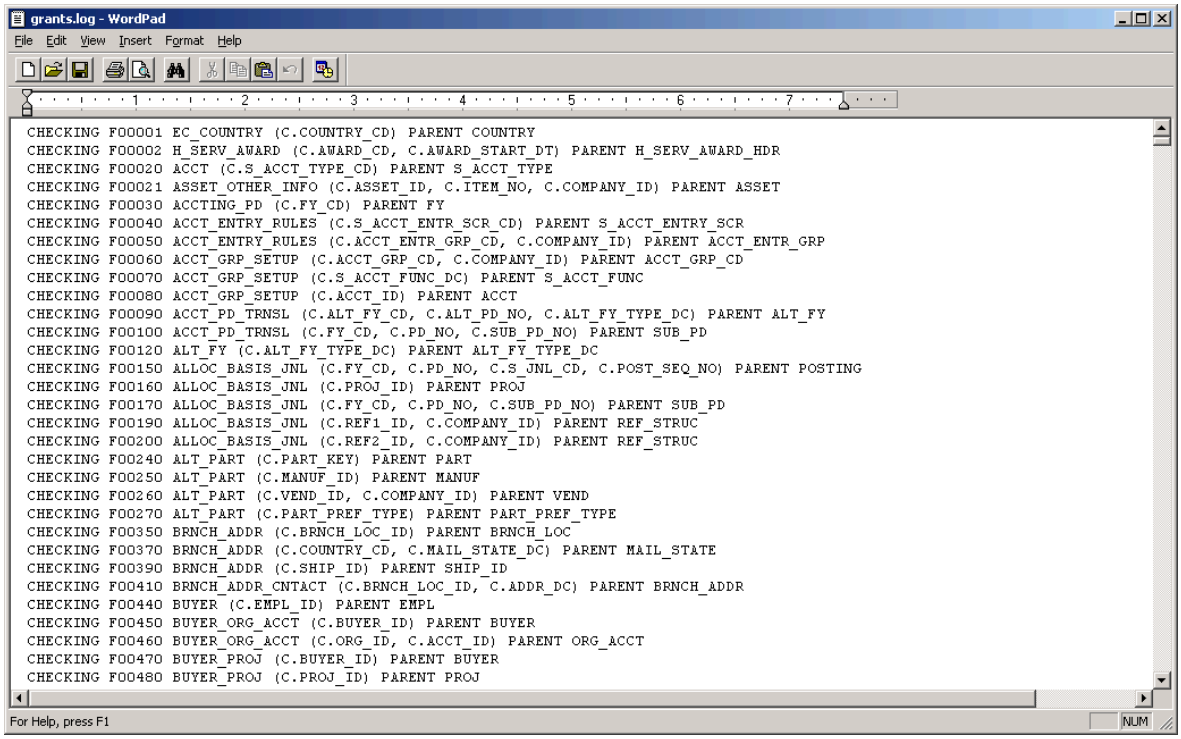
4. In the **Child/Parent** section, change the **Log file** filename and/or path, if necessary.

5. Click **Run** to run the integrity check.

   You can monitor the progress of the process in the **Log Information** field.

Error Log

If the process fails for any reason or errors are encountered, an error log similar to the following displays:



Deploy Hotfix Utility

You use the Deploy Hotfix Utility to deploy individual application hotfixes, DB patches, and common code libraries to your product installation. Deltek highly recommends that you perform the deployment of hotfixes only during maintenance outages of the product when ALL WebLogic nodes are down.

Note: This utility should not be used to deploy MRs as MRs are self-installed exe files.

To run the Deploy Hotfix Utility:

1. Start the Costpoint DB Wizard using the batch CPWebDBWizard.cmd file.

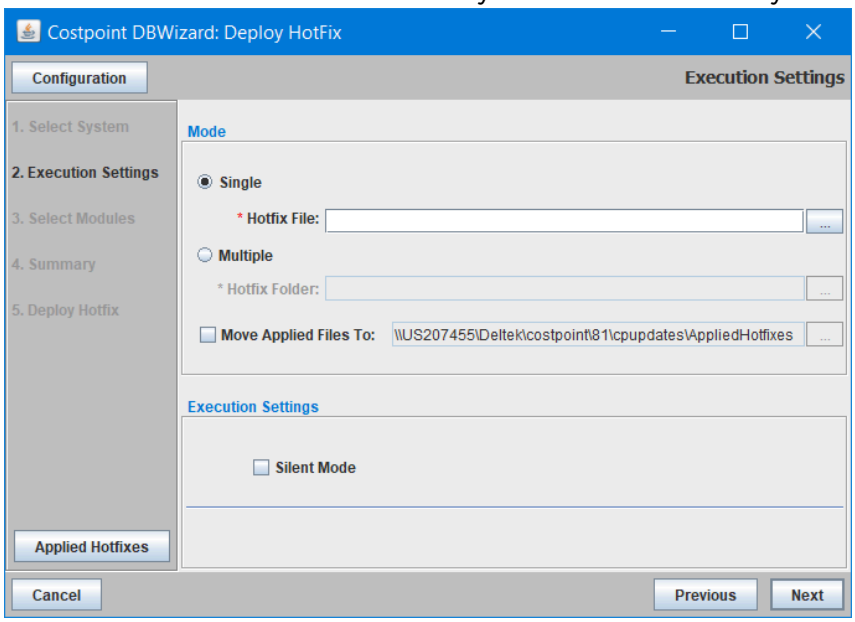
2. From the list of **Available options**, select **Deploy Hotfix**, and click **Next**.

3. Select the system to use or select **Apply To All**, and click **Next**.

   Note: Deltek highly recommends that you deploy hotfixes to all systems in the current product deployment. Deploying a hotfix to just one of several systems may leave other systems in an incomplete state when newer Java or JS classes are deployed, but not latest metadata or latest DB Stored procedures.

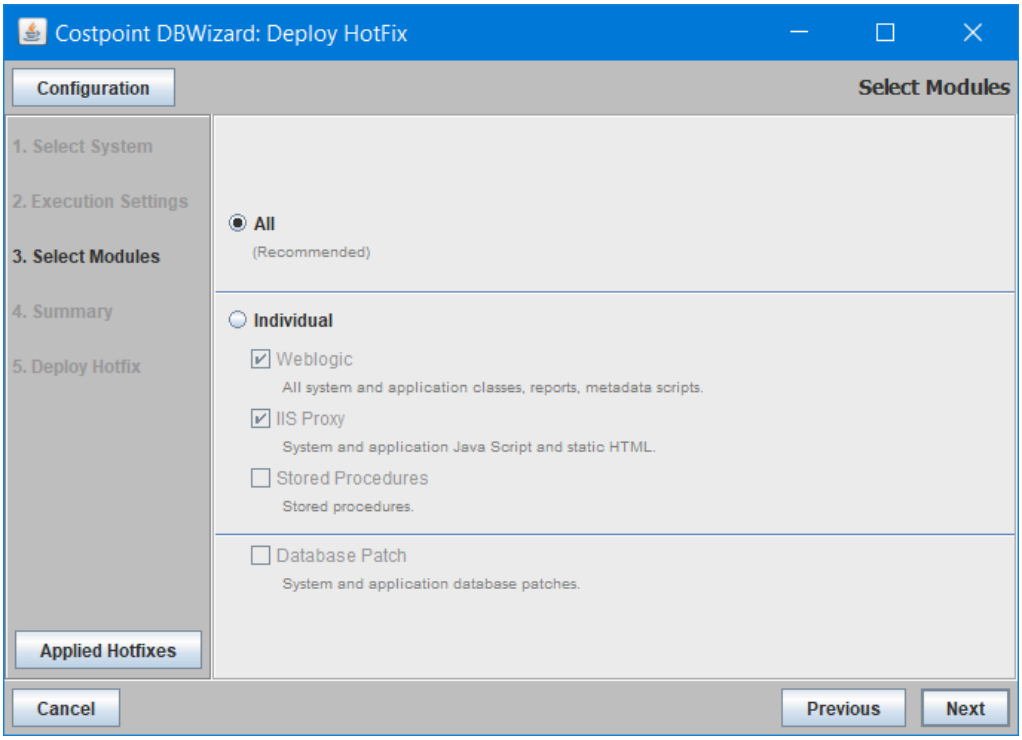
4. On Execution Settings page, take the following actions, and click **Next**:

- **Single/Multiple**: Select **Single** if you want to deploy a single hotfix or select **Multiple** if you want to deploy a folder of hotfixes.
- **Move Applied Files To**: Select this checkbox if you want to move the applied hotfixes to a specified location.
- **Silent Mode**: Select this check box if you want to run the utility in the Silent Mode.



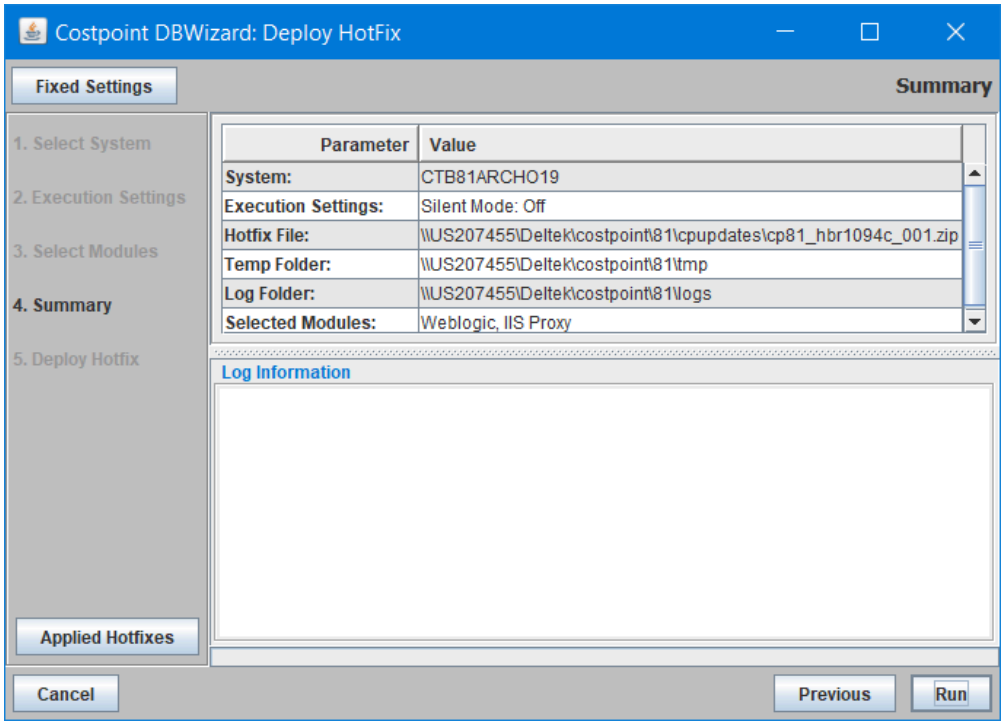
5. On the Select Modules page, select appropriate options for what you want to deploy:

   - **All**: Select this option to deploy all of the options.
   - **Individual**: Select this option and then select the checkbox for parts of the hotfix you want to deploy:
     - Weblogic
     - IIS Proxy
     - Store Procedures
     - Database Patch



6. Click **Next**.

7. On the Summary page, review your selections screen, and click **Run** to execute the process of deploying selected Hotfixes.



8. After the process is complete, you are presented with the overall message about the deployment process and if any warnings or errors were encountered.

   You should review generated deployment log file(s) under the main product log folder: deltek\costpoint\82\logs\ This folder contains the following log files:

   - **hotfixlog_summary_XXXX.log**: This log file contains the summary details of the process
   - **hotfixlog_SystemName_XXXX.log**: Each system where the hotfix(es) were deployed has its own separate log file.

   Deltek highly recommends that you review all the log files to make sure there were no errors or warnings.

Link View Utility

The Link View utility generates database link views between the Admin, Meta, Data, TE (optional), and BP (optional) database schemas.

Note: To run this utility, you must provide the DBA username(s) and password(s).

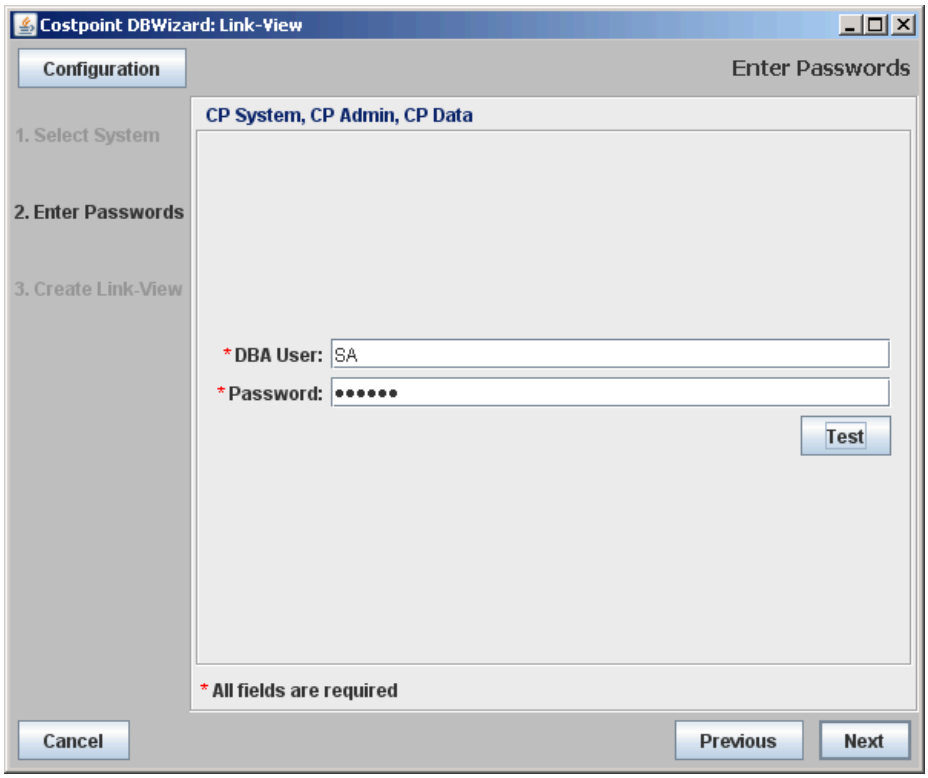
To run the Link View utility:

1. Start the Costpoint DB Wizard using the batch CPWebDBWizard.cmd file.

2. From the list of **Available options**, select **Link-View**, and click **Next**.

3. Select the system to use, and click **Next**.

   The Enter Passwords page displays.



4. Complete the following information:

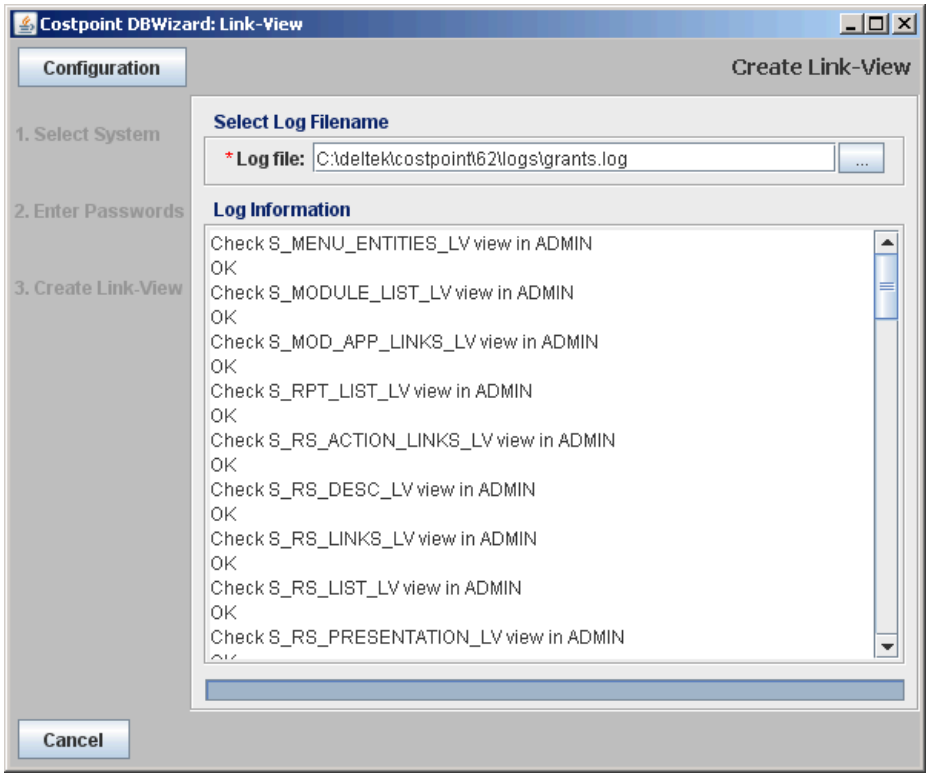
   - **DBA User**: Enter the database administrator's username.
   - **Password**: Enter the database administrator's password.

5. Click **Test** to validate the database connection for the entered DBA username and password.

   Note: If your system uses more than one database instance, then you have to enter the DBA information for each database instance.

6. Click **Next**.

   The Create Link-View page displays.



7. If necessary, change the log filename and/or path.

8. Click **Run** to start the process.

You can monitor the progress of process in the **Log Information** field.

Error Messages

If the process fails for any reason or errors are encountered, the utility will display a detailed error message.

Apply License Utility

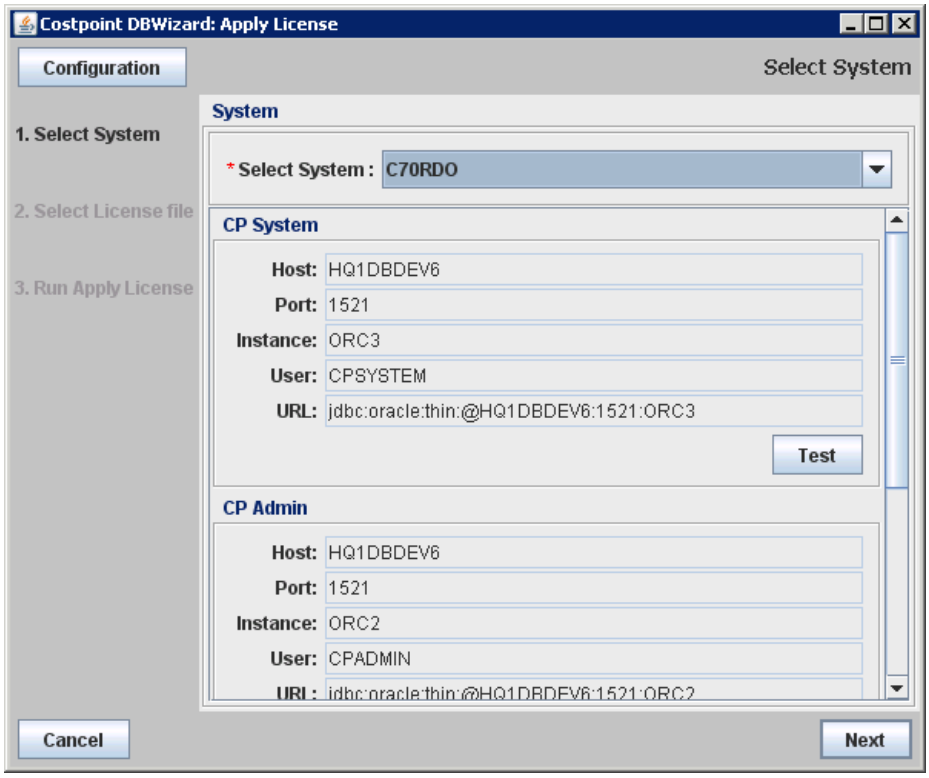
The Apply License Utility utility allows you apply the License file to a database.

To run the Apply License utility:

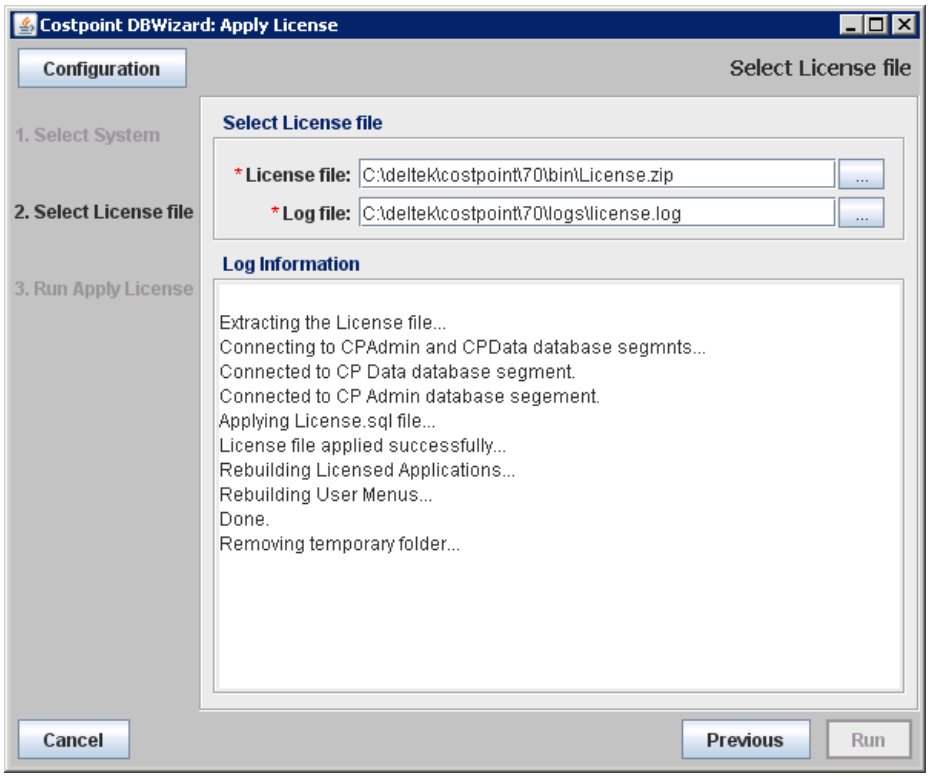
1. Start the Costpoint DB Wizard using the batch CPWebDBWizard.cmd file.

2. From the list of **Available options**, select **Apply License**, and click **Next**.

3. Select the system to apply the license file to, and click **Next**.



4. Select the License file, and then click **Run** to start the process.



You can monitor the progress of the process in the **Log Information** field.

After the license has been applied with the DBWizard, please either restart the Costpoint 8 Window's service (Weblogic) or run the Rebuild Global Settings Application Process in Costpoint.

Error Log

If the process fails for any reason or errors are encountered, an error log displays.

Remove License Utility

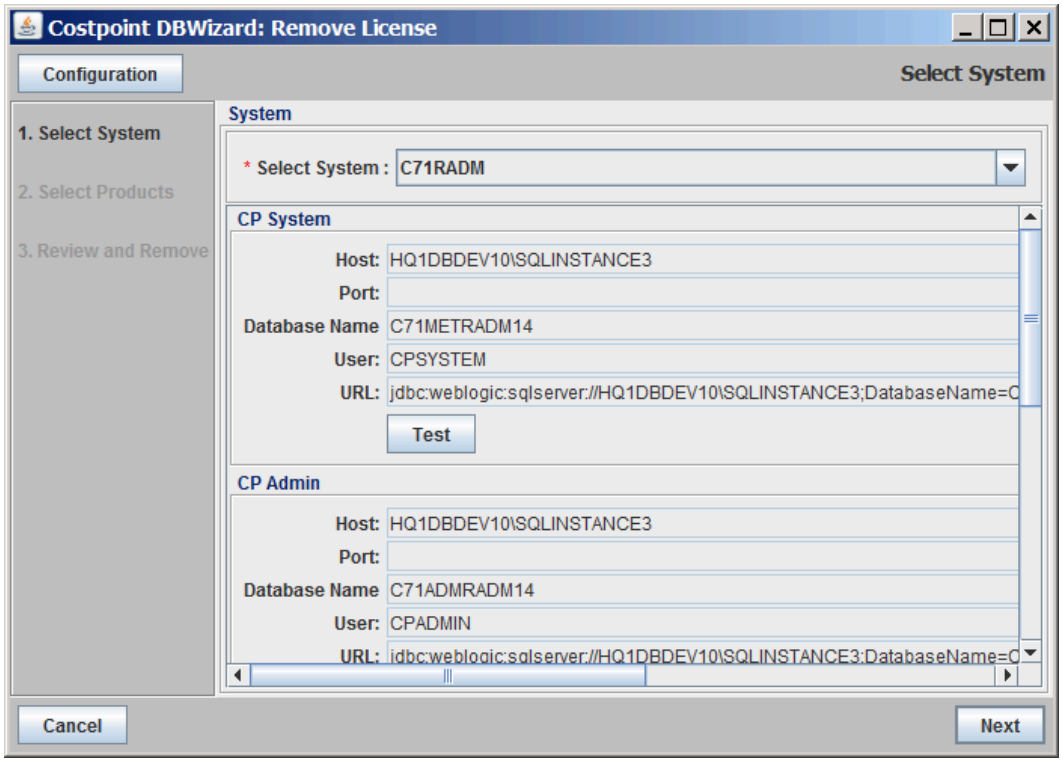
The Remove License Utility allows you to remove the licenses for a selected products from a database.

To remove the license for a product:

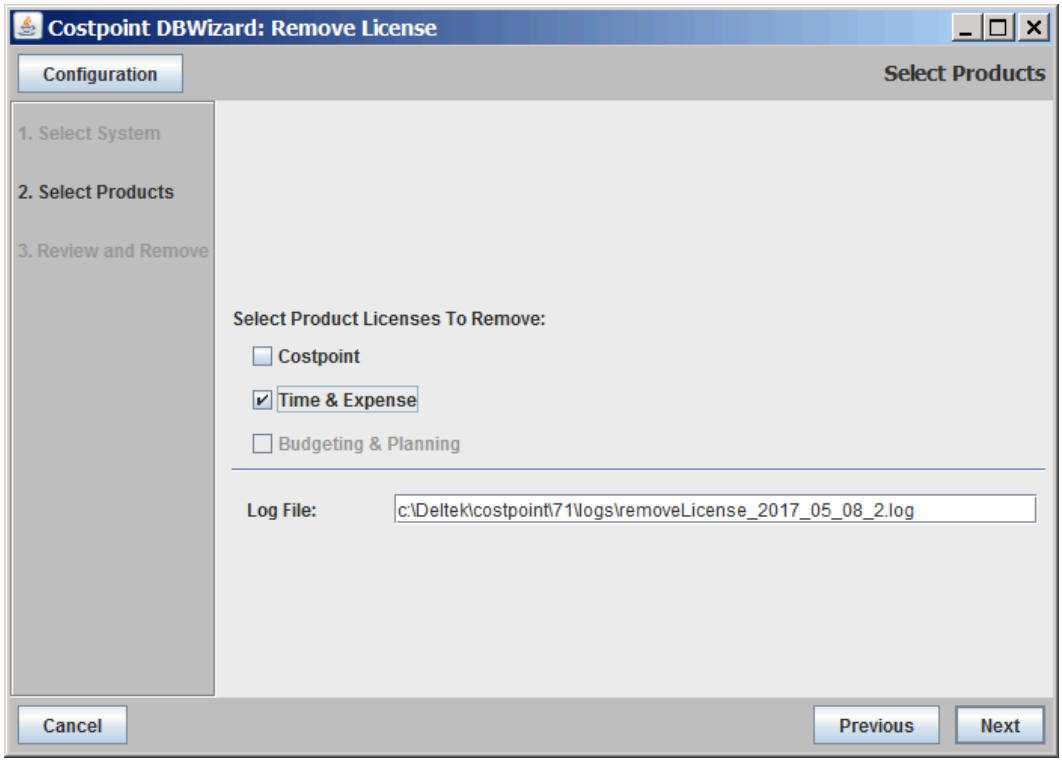
1. Start the Costpoint DB Wizard using the batch CPWebDBWizard.cmd file.

2. From the list of **Available options**, select **Remove License**, and click **Next**.

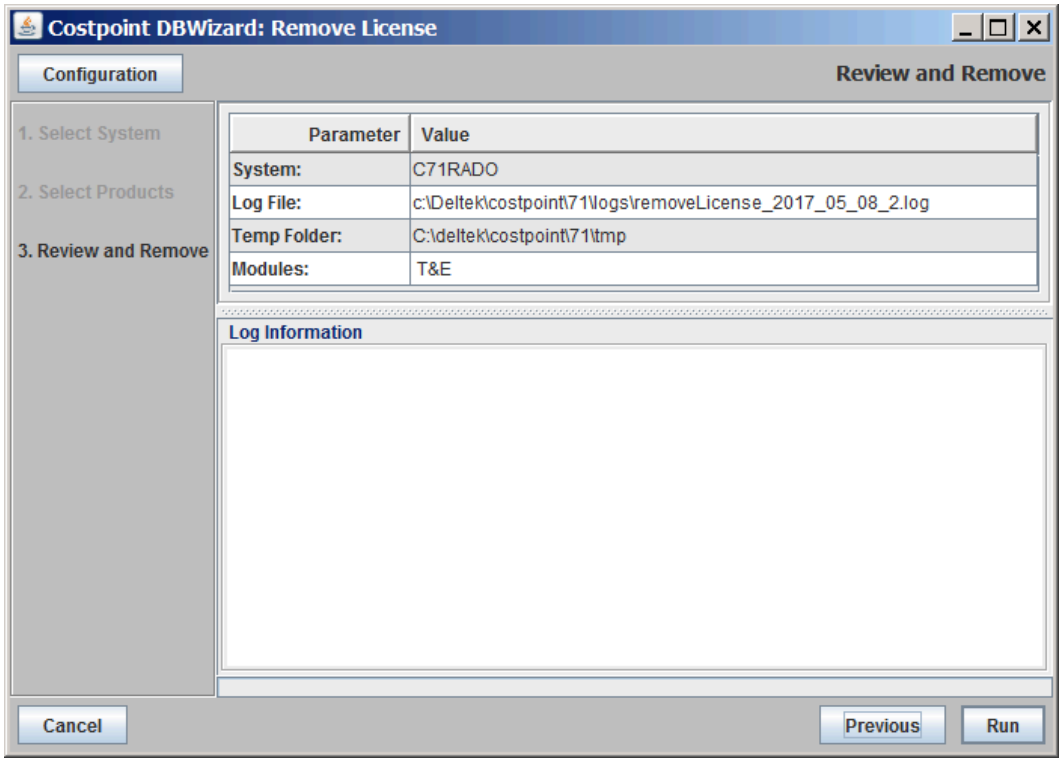
3. On the Select System page of the wizard, select the system to apply the license file to, and click **Next**.



4. On the Select Products page, select the check box next to the product(s) for which you want to remove the license, and click **Next**.



5. On the Review and Remove page, click **Run** to start the process.



You can monitor the progress of the process in the **Log Information** field.

After the license has been removed with the DBWizard, either restart the Costpoint 8 Window's service (Weblogic) or run the Rebuild Global Settings Application Process in Costpoint.

Error Log

If the process fails for any reason or errors are encountered, an error log displays.

Rebuild User Menus Utility

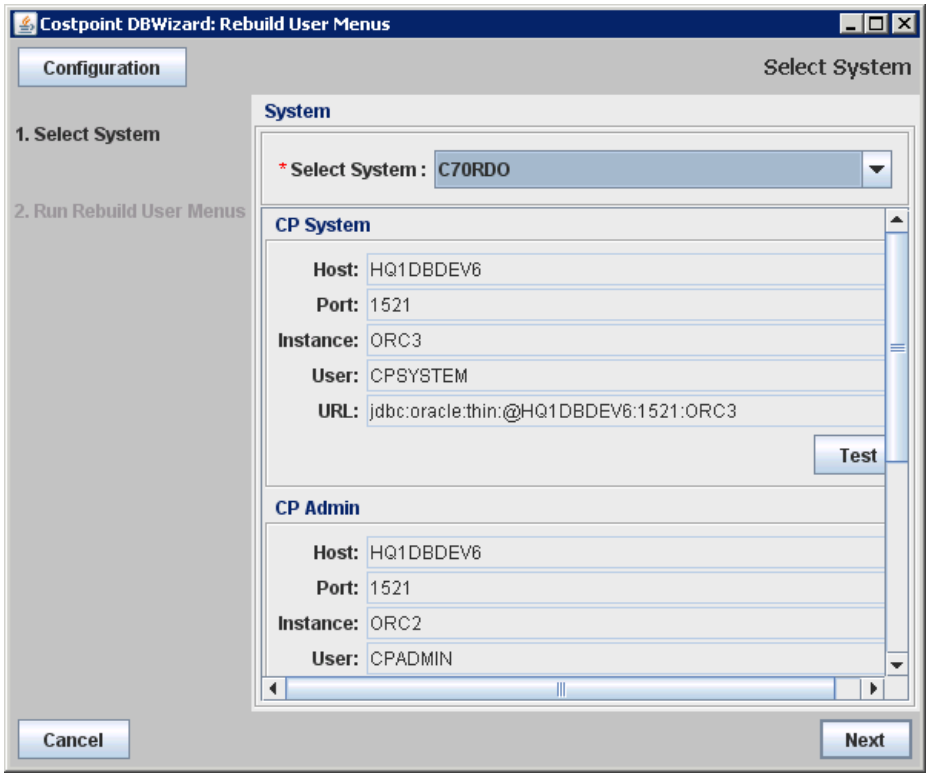
The Rebuild User Menus utility allows you to rebuild user menus in a selected system.

To run the Rebuild User Menus utility:

1. Start the Costpoint DB Wizard using the batch CPWebDBWizard.cmd file.

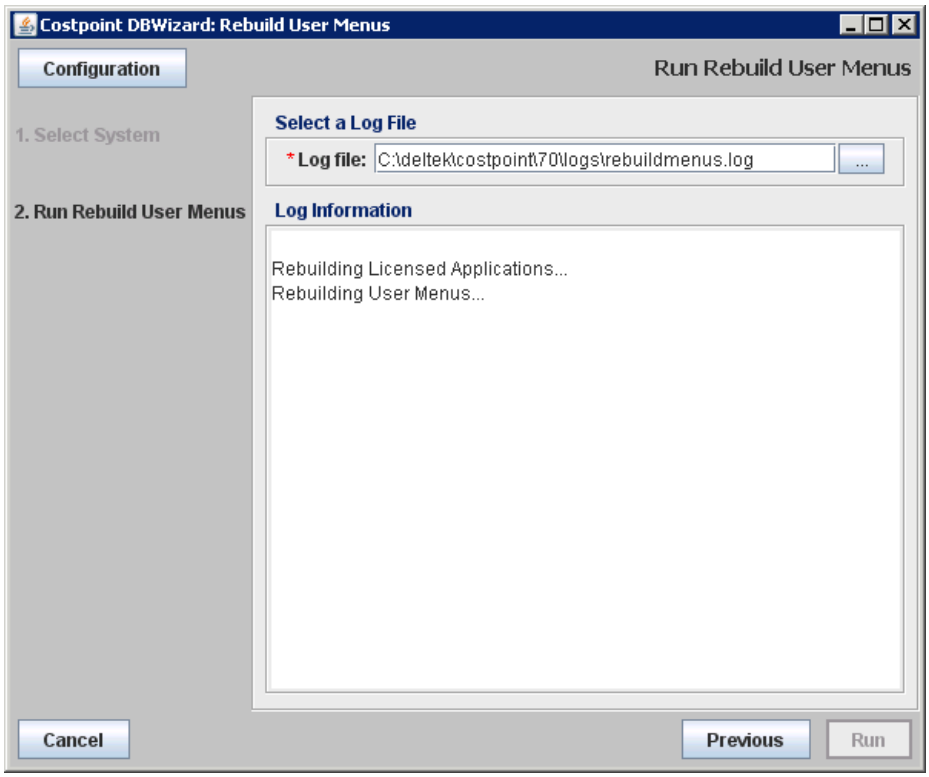
2. From the list of **Available options**, select **Rebuild User Menus**, and click **Next**.

3. Select the system for which to rebuild user menus, and click **Next**.



4. Click **Run** to start the process.

   You can monitor the progress of the process in the **Log Information** field.



Error Log

If the process fails for any reason or errors are encountered, an error log displays.

Deploy Extension Utility

The Deploy Extension utility allows you to apply extension files to a specific system.

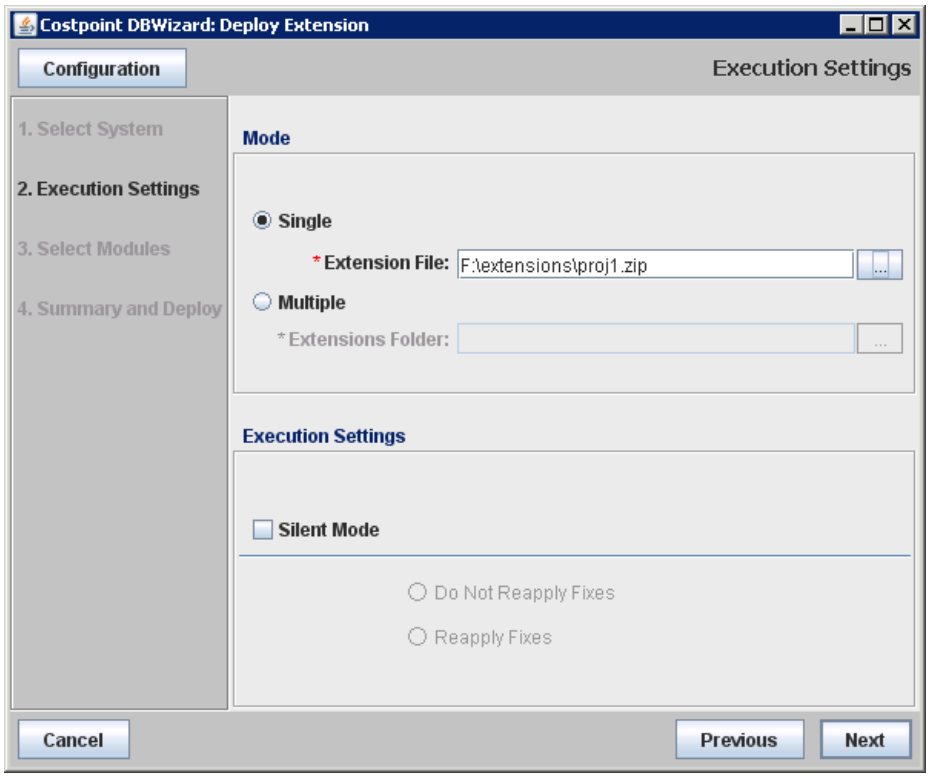
To run the Deploy Extension utility:

1. Start the Costpoint DB Wizard using the batch CPWebDBWizard.cmd file.

2. From the list of **Available options**, select **Deploy Extension**, and click **Next**.

3. Select the system to use, and click **Next**.

   The Execution Settings page displays.

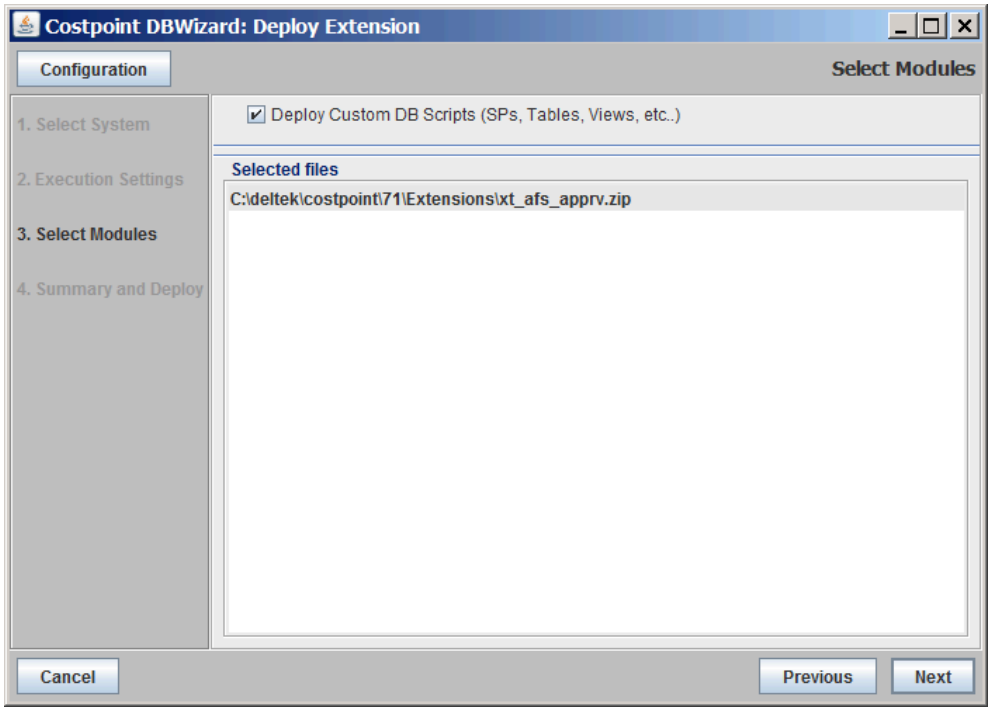


4. In the **Mode** section, select the following:

   - **Single**: Select this option to apply a single hotfix file.
     - **Extension File**: If you select the **Single** option, then enter, or click the browse button to select, the path to the hotfix file.
   - **Multiple**: Select this option to apply multiple extensions from a specified folder.
     - **Extension Folder**: If you select the **Multiple** option, then enter, or click the browse button to select, the path to the folder that contains the extension files.

5. Click **Next**.

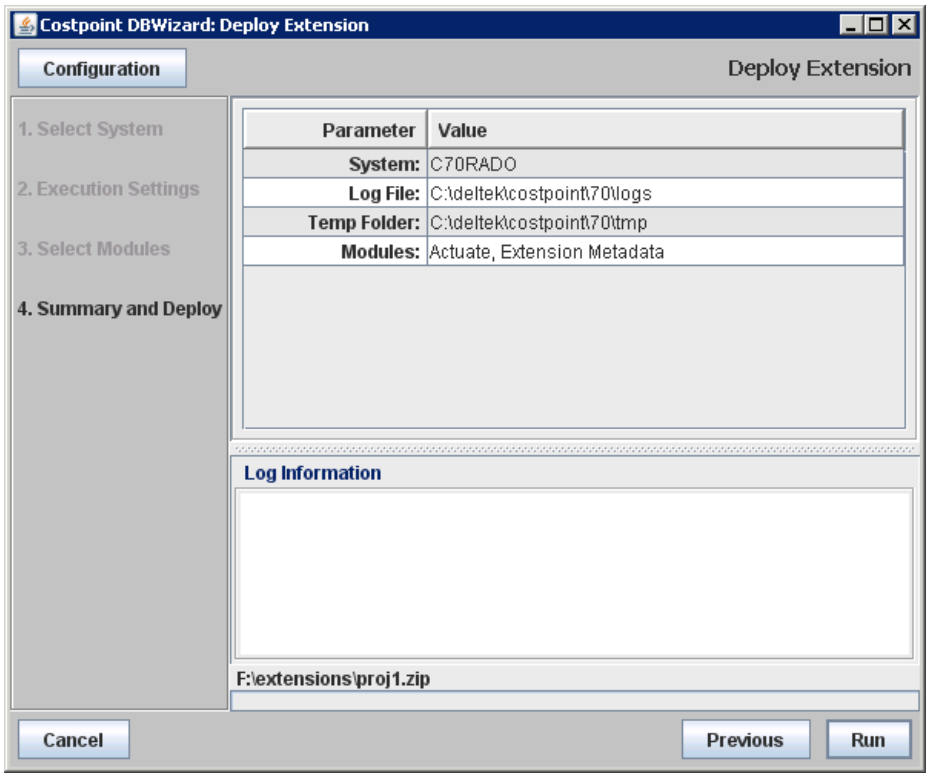
   The Select Modules page displays.



6. Optional. If your package contains a stored procedure, create tables, views, or other database objects SQL scripts to be applied, select the **Deploy Custom DB Scripts** check box.

7. Click **Next**.

   The Summary page displays.



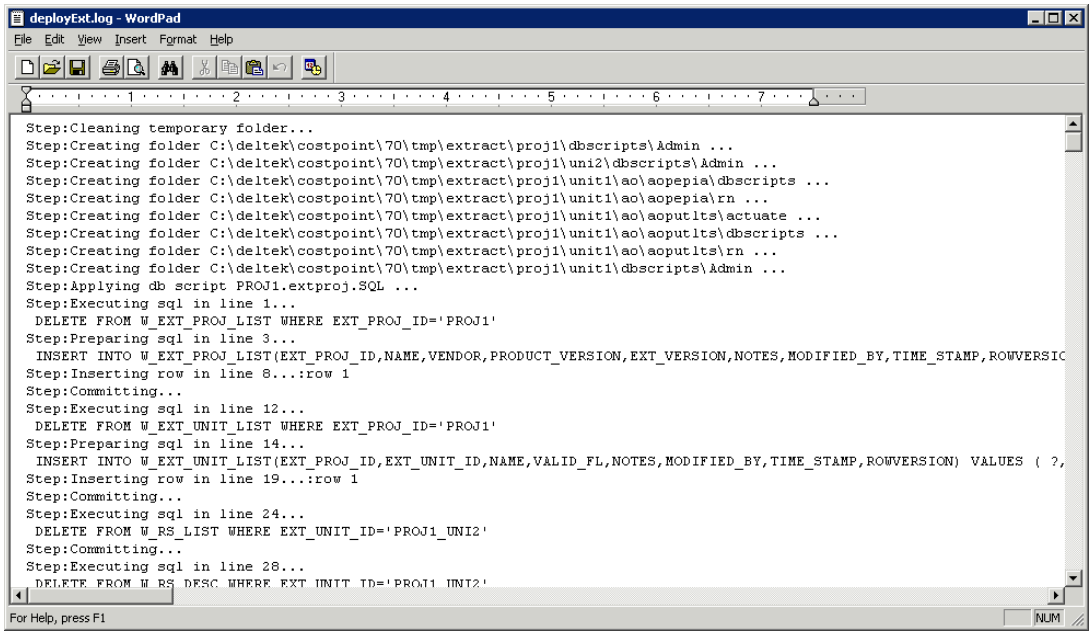
8. Verify that the information is correct and click **Run** to start the process.

   You can monitor the progress of the process in the **Log Information** field. If the Extension contains Java classes, the WebLogic server (or all WebLogic nodes if given deployment has more than 1 server) needs to be restarted to make changes to Java side effective.

   Note: Deltek highly recommends shutting Costpoint down before deploying Extensions with Java classes (through UI or API that is covered later in this document) to avoid issues with locked files and to make custom classes effective.

Error Log

If the process fails for any reason or errors are encountered, an error log similar to the following displays.



Required Deploy Extension Database Tables

The Deploy Extension utility uses the following tables for extension file registration.

Table Name	Description
W_EXT_PROJ_LIST	This table contains list of Extensibility Projects deployed to the system.
W_EXT_UNIT_LIST	This table contains list of Extensibility Units deployed to the system.

Remove Extension Utility

The Remove Extension utility allows you to delete extension files from a specific system.

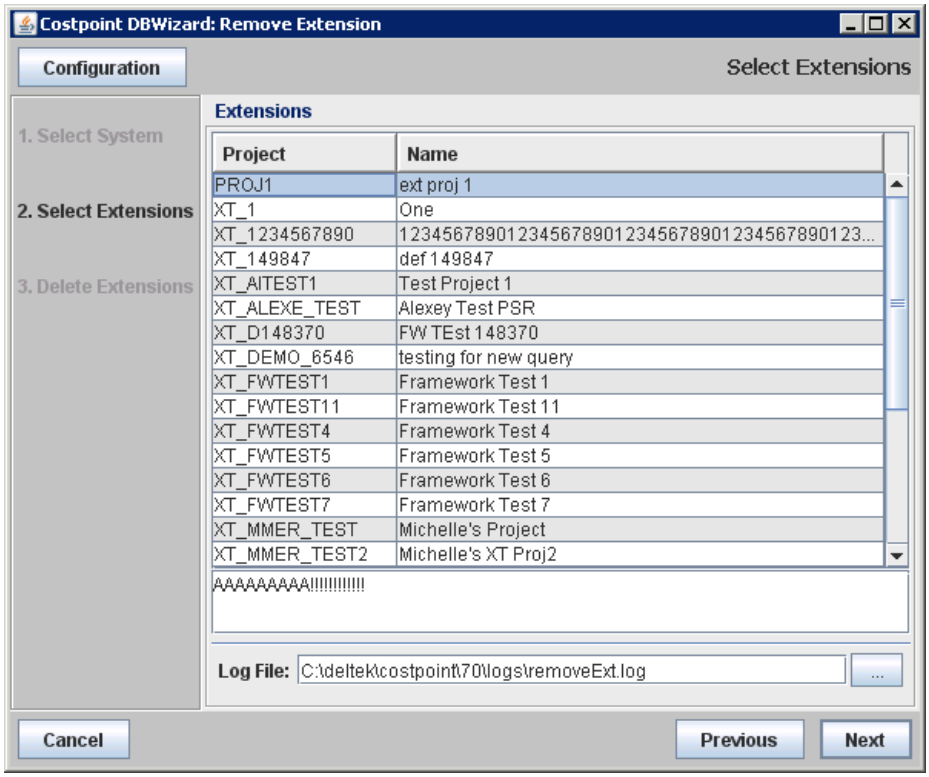
To run the Remove Extension utility:

1. Start the Costpoint DB Wizard using the batch CPWebDBWizard.cmd file.

2. From the list of **Available options**, select **Remove Extension**, and click **Next**.

3. Select the system to use, and click **Next**.

The Execution Settings page displays.

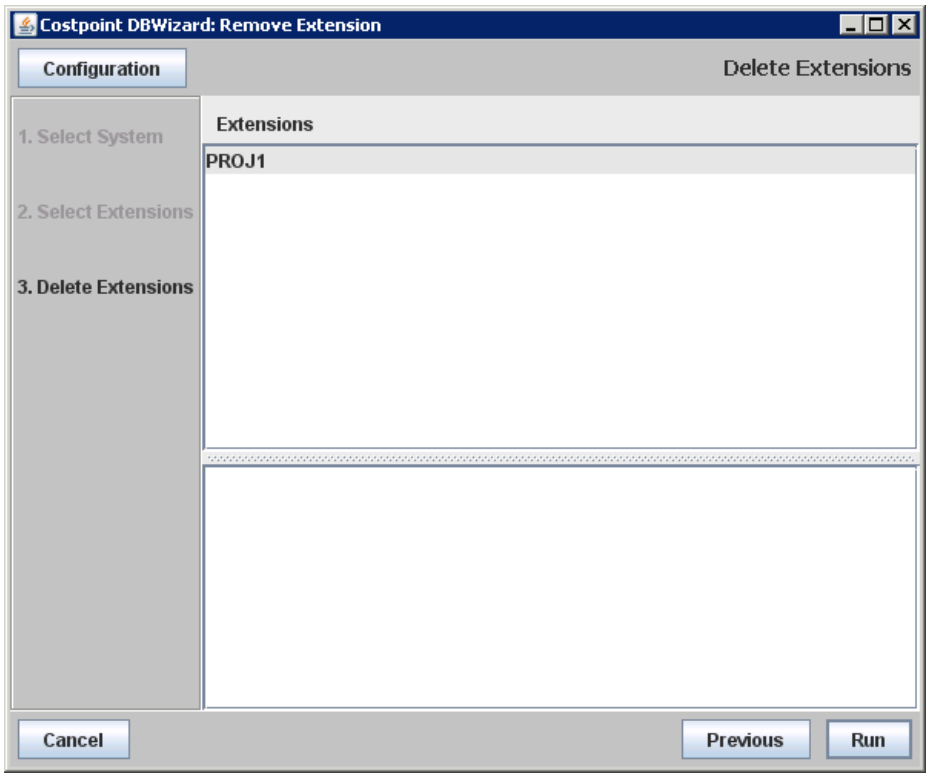


4. Select the extension(s) that needs to be removed from a system.

5. Confirm the log file path and filename.

6. Click **Next**.

   The Remove Extension page displays.



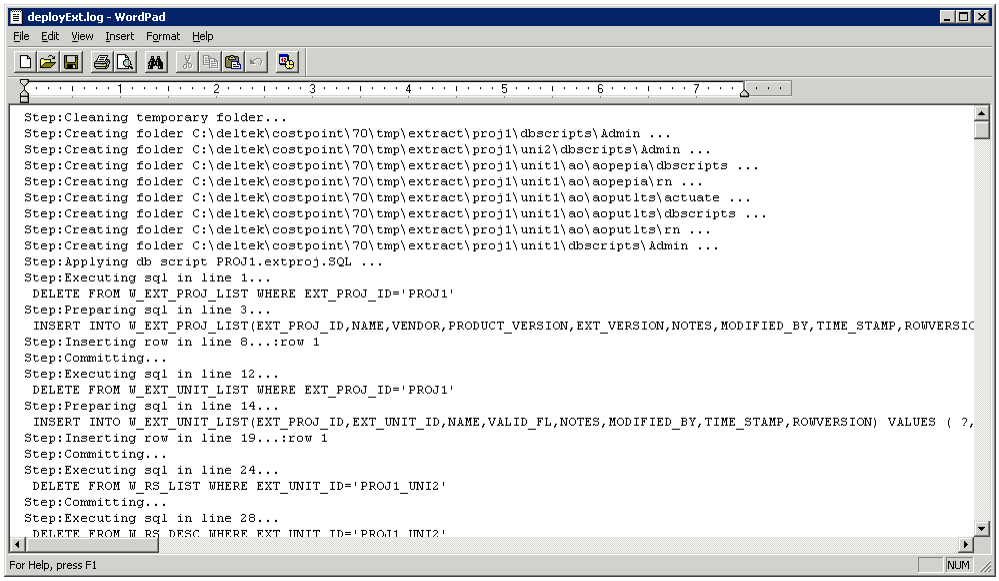
7. Indicate which extension(s) to remove.

8. Click **Run** to start the process.

You can monitor the progress of the process in the **Log Information** field.

Error Log

If the process fails for any reason or errors are encountered, an error log similar to the following displays.



In some of the cases, it is possible that after deploying Extensibility Project(s) or after deploying standard hotfixes, your Extensibility Unit(s) will be flagged as invalid. This can happen when the Extensibility application description is no longer compatible with the standard app description. To correct this situation, you will need review and correct your Extension(s). Please review the log file for more details.

Verify All Extensibility

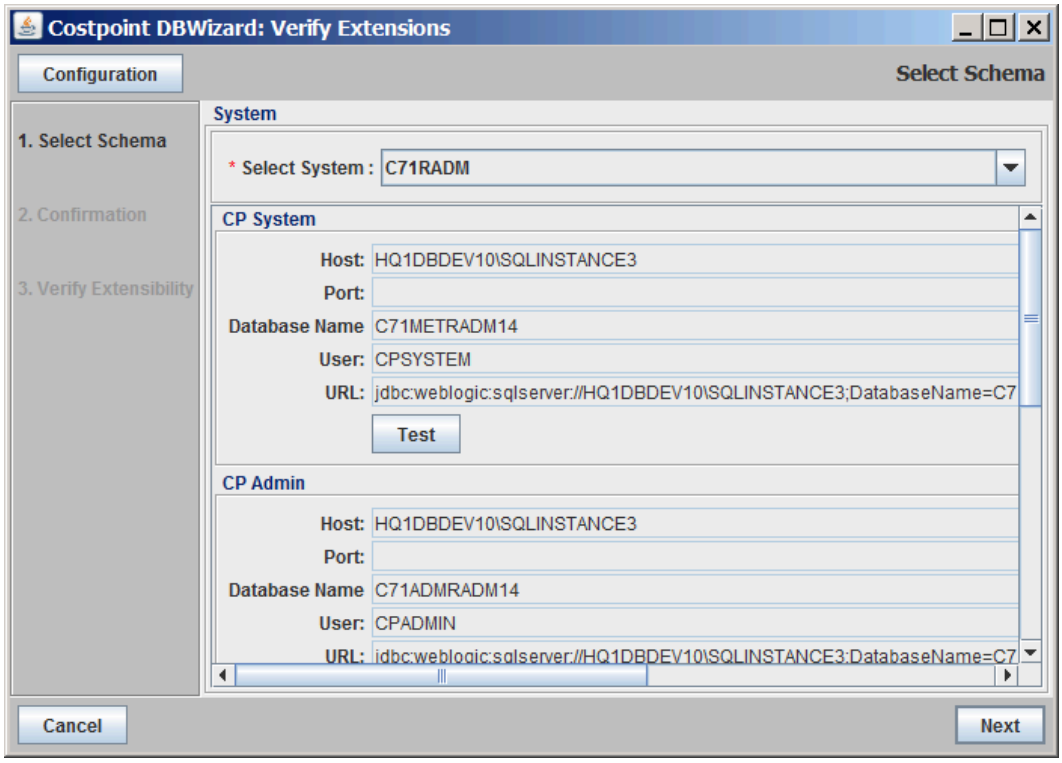
The Verify All Extensibility utility allows you to verify all Extensibility Units in a selected system. With the Extensibility Console, you can verify Extensibility Projects and Units-one-by one, but the Verify All Extensibility utility verifies all extensions at one time. It can be helpful when bringing up a new system or when you want to re-check the status of all extensions.

To run the Verify All Extensibility utility:

1. Start the Costpoint DB Wizard using the batch CPWebDBWizard.cmd file.

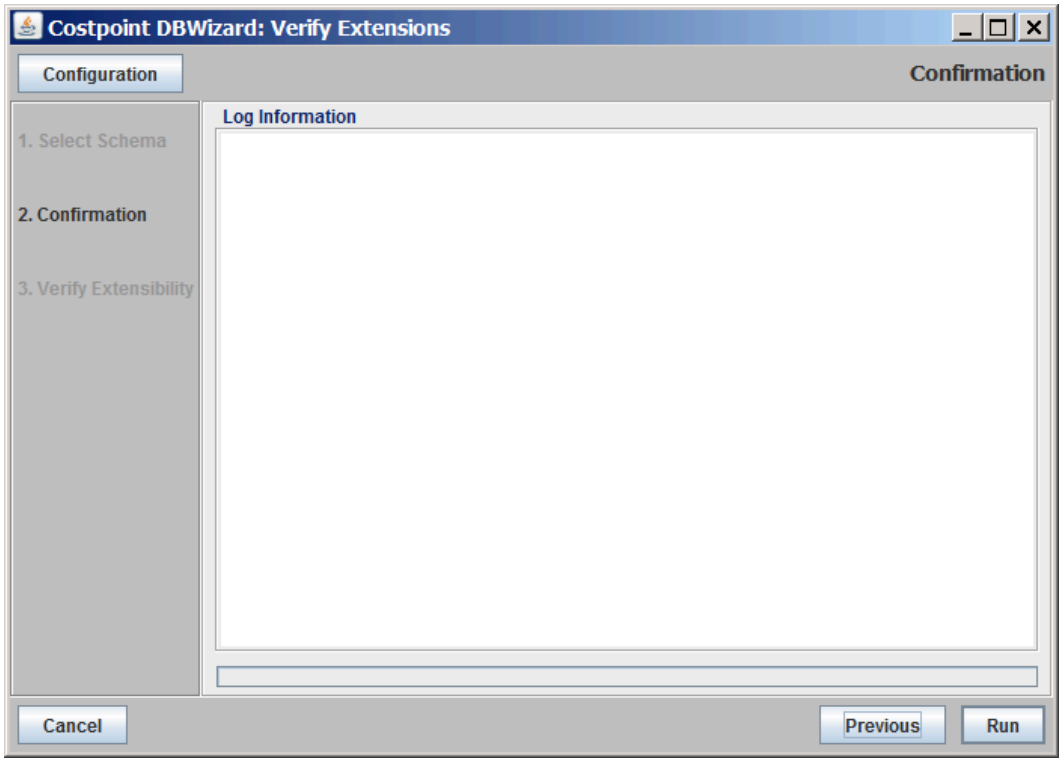
2. From the list of **Available options**, select **Verify All Extensibility**, and click **Next**.

3. On the Select Schema page of the wizard, select the system for which to run the process, and click **Next**.



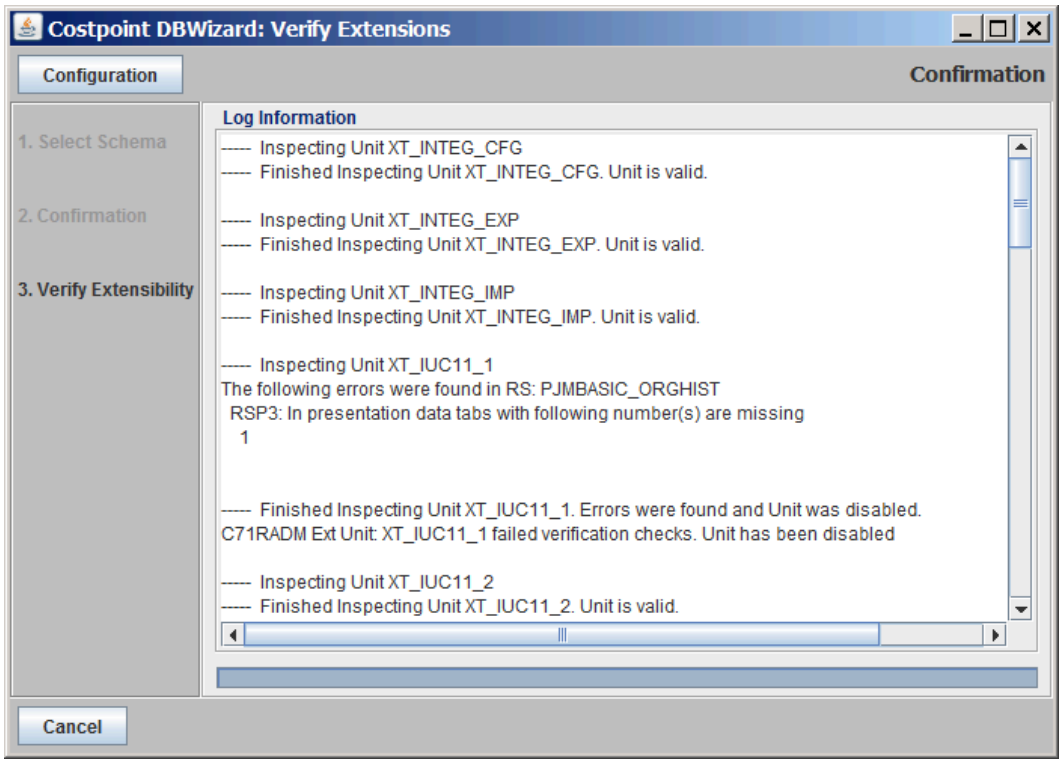
4. On the Confirmation page, click **Run** to start the process.

   You can monitor the progress of the process in the **Log Information** field.



Error Log

If the process fails for any reason or errors are encountered, an error log displays:



If any of your Extensibility Unit(s) are flagged as invalid, you will need review and correct your Extension(s). This can happen when the Extensibility application description is no longer compatible with the standard application description. Please review the log file for more details.

Command Line API to deploy Web Services and Extensions

In Costpoint 8.2, Deltek created new command line API to deploy Web Services (WS) and/or Packaged Extensibilty Projects.If there is a need to automate deployment step, this new API can be used to deploy these two kinds of objects to the Costpoint system. You can deploy just Web Services or Extensions or both kinds of objects in one run. So to deploy WS zip files or Extensibility Projects, you will need to place them in one folder and then pass this folder name, as well as a system name where objects will be deployed, to the new API.

Deltek created a new sample command file—CPWebDeployExtAndWsApi.cmd—in the bin folder where all other Costpoint command files are located (C:\deltek\costpoint\82\bin). In this file, enter a system name and folder name with files to deploy in two parameters:

```
Set SYS_NAME=

Set FOLDER_TO_DEPLOY=
```

Save and run the cmd file as Administrator. It will validate and deploy files in provided folder. Detailed log of the operation will be genearted in the regular Costpoint log folder (C:\deltek\costpoint\82\logs).