Package Migration Utility

This document explains how to use the package migration utility to migrate custom packages in HP Universal CMDB (UCMDB) from version 7.x to version 8.01.

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Concepts

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Reference

Package Migration Utility – Overview

Custom packages created before upgrading the system to version 8.01 may contain resources that are not supported in the new version. To reduce the risk of problems in such custom packages, it is recommended that you migrate these packages offline using the provided Package Migration Utility before deploying the packages in the UCMDB version 8.01 system.

Using the Package Migration Utility to migrate custom packages offline provides the following benefits:

➤ No downtime is required.

➤ Migration of custom packages can be completed before they are deployed in the system, thereby reducing risk.

➤ You can migrate your packages and then immediately deploy them and rediscover the data.

➤ HP content packages can be migrated in a single process, reducing the risk of corrupted content.

The Package Migration Utility enables you to perform the migration on custom packages offline, without the need for a running server.

🔧 Migrate a Custom Package

The following procedure explains how to migrate custom packages to HP Universal CMDB version 8.01.

To migrate custom packages:

1 Place the custom packages to be migrated in a separate directory together with the packages on which the upgraded resources depend. For example:

➤ If a custom package contains a view or enrichment rule which relies on a TQL definition that resides in another package, place the package containing the TQL definition in the directory with the custom package.

➤ If a custom package has a reference to a custom class definition which is not supplied by any of the factory packages, place the package with the custom class definition in the directory with the custom package.

2 Ensure that you have the following XML files:

➤ the old class model definition (that is, the class model of the UCMDB version (such as 7.0 or 7.5) with which your package was created).

➤ the class model definition of the new system (8.00).

If you do not have these files, create them through the JMX console. (To create them, access the JMX console, navigate to **CMDB Class Model Services** and run the **exportClassModelToXML** method.)

3 Run the script <UCMDB Server Root>\j2f\packupgrade\bin\packupgrade.bat on Windows, or <UCMDB Server Root>/2f/packupgrade/bin/packupgrade.sh on Solaris.

The syntax for running the script is shown below. (This information can also be displayed by running the script without arguments.)

```
packupgrade -cmold {CLASS_MODEL_DEF_FILE} -cmnew
{CLASS_MODEL_DEF_FILE} [-u {UPGRADE_CONFIG_FILE}] -out {OUTPUT_DIR}
{INPUT_DIR}
   -i
      log to console
   -cmold {CLASS_MODEL_DEF_FILE}
      file name of the OLD class model definition;
      this file can be created via JMX:
         navigate to the Class Model Services in JMX console and apply
"exportClassModelToXml" method
   -cmnew {CLASS_MODEL_DEF_FILE}
      file name of the NEW class model definition;
      this file can be created via JMX:
         navigate to the Class Model Services in JMX console and apply
"exportClassModelToXml" method
   -u {UPGRADE_CONFIG_FILE}
      upgrade configuration file;
      by default it's taken from {PRODUCT_DIR}\cmdb\services\upgrade_resources.xml
   -out {OUTPUT_DIR}
      directory path for upgraded packages
   {INPUT_DIR}
      directory path of the packages to be upgraded
```

For example:

```
packupgrade -cmold ClassModel-7.5.xml -cmnew ClassModel-8.0.xml -out
c:\MyPackages\Upgraded\ c:\MyPackages\
```

4 Locate the migrated packages in the output directory you provided. Deploy your migrated packages in the UCMDB version 8.01 system.

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🔍 Limitations

➤ The Package Migration Utility has been verified only for packages compatible with UCMDB 7.x.

➤ Enrichment definition packages that refer to deleted or updated CI types cannot be updated using the Package Migration Utility.

➤ Partial migration is not supported. The Package Migration Utility does not create a new package if one or more of the resources cannot be migrated successfully.

➤ Migration may fail due to a known defect in the JMX method that exports class models to XML in UCMDB version 7.52. In that version of UCMDB, the XML file may be created with illegal characters. If this occurs, the following error message is generated by the Package Migration Utility:

> Couldn't read old class model definition from <xml file name>.

Solution 1. Open the XML file exported from UCMDB 7.52 with an XML editing tool (for example, Altova XMLSpy) and save it. Then run the Package Migration Utility again.

Solution 2: Open the XML file exported from UCMDB 7.52 in a text editor (for example, Notepad). Search for the ellipse "…" character (ascii code 0133). In Notepad, you can find this character by clicking in the Find What box, and then pressing and holding the ALT key while entering **0133** using the numeric keypad. Locate and remove all occurrences of this character in the XML file. Then run the Package Migration Utility again.