

e2open[®]

**TM- Parcel
Universal Carrier Module Purge
Utility**

February 2024

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Table of Contents

Preface	4
Audience.....	4
Convention	4
Overview.....	4
Running the UCM Purge Utility on Demand.....	5
Installing and Configuring the UCM Purge Utility for Scheduled Data Deletion	6
Creating and Importing Truststore.....	9
Creating and Importing Client Keystore	10
Viewing UCM Purge Results	12
Uninstalling the Purge Utility	12

Preface

Audience

This guide is intended for e2open customers who use the application while conducting their everyday business activities. This guide provides the users with information about planning concepts and processes as well as with information about all screens, features, and functionalities in the client. In addition, e2open professional services may find this guide useful as it will help them better understand the concepts behind the implementation.

This guide is not meant to serve as training material, and it is advisable, that before reading this guide, you should have already completed a formal introductory training.

Convention

The following text conventions are used in this document:

Convention	Meaning
bold	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text.
italic	Italic type indicates guide titles, process names, emphasis.
monospace	Monospace indicates commands within a paragraph, URLs, code in examples.

Overview

The Universal Carrier Module (UCM) with Parcel includes a separate Purge Utility for deleting old data from the UCM carrier transactional database tables. This utility also gives users the option first to back up the old data to be deleted in the form of CSV files. Users can also specify purges to be automatically scheduled, as well as view the results of a purge from the Parcel UI and in a log file.

You can install and/or run the Purge utility in the following modes:

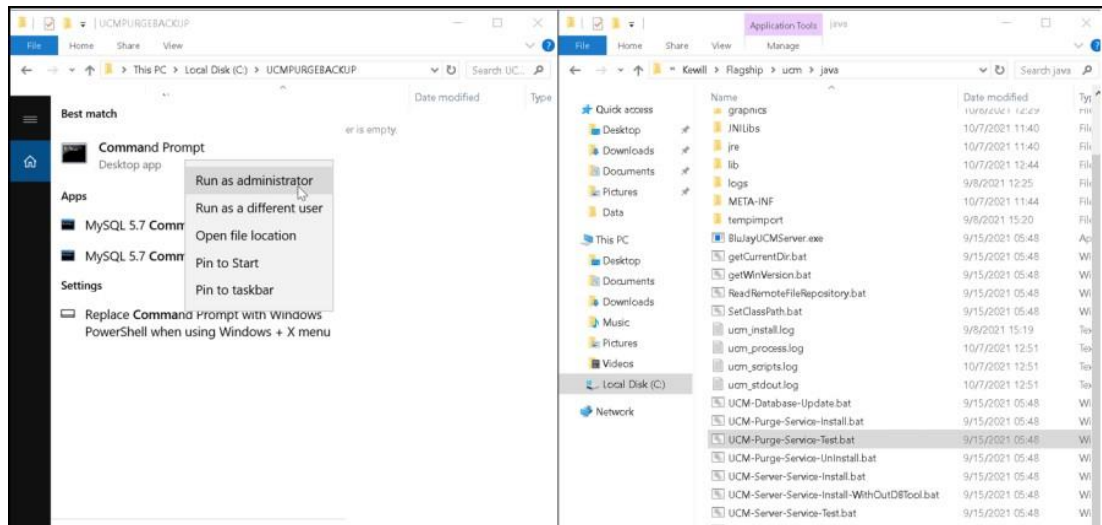
- As an on-demand program for deleting UCM carrier data manually. Note that this mode requires no installation, just running the appropriate batch file.
- As a Windows service for scheduling data deletion. This mode requires running an installation batch file, and then editing a configuration file. This utility contains the following three batch files in the Parcel UCM folder:
- UCM-Purge-Service-Install.bat
- UCM-Purge-Service-Test.bat
- UCM-Purge-Service-Uninstall.bat

Running the UCM Purge Utility on Demand

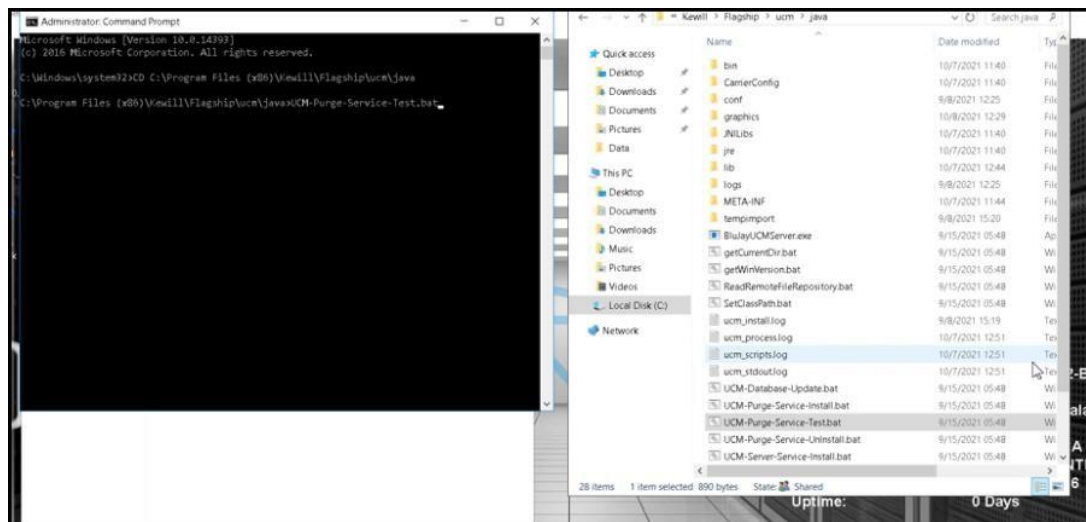
Running the UCM Purge Utility on Demand

To run the UCM Purge Utility on demand, run the following batch file, as shown in following steps:

1. Open Command Prompt as Administrator.



2. Navigate to the below path: C:\Program Files (x86)\Kewill\Flagship\ucm\java



3. Run UCM-Purge-Service-Test.bat file.

and Configuring the UCM Purge Utility for Scheduled Data Deletion

Installing and Configuring the UCM Purge Utility for Scheduled Data Deletion

To install and configure the UCM Purge Utility for scheduled data deletions:

1. Open Command Prompt as Administrator.
2. Navigate to the below path: C:\Program Files (x86)\Kewill\Flagship\ucm\java
3. Run the UCM-Purge-Service-Install.bat file to create the following items:
 - Windows Service: BluJayUCMPurgeService
 - A properties file you can configure according to the following step.
4. In the <Parcel Artifact Folder>\Flagship\ucm\java\META-INF folder, use a text editor to open the following Purge Utility Properties file: UCM_Purge.properties
This Properties file contains the following fields with the following default values:
#DB connection details
dbServerIp=localhost dbServerport=3306
dbUsername=sn_user
dbPassword=shipnowdb
dbJDBCdriver=com.mysql.jdbc.Driver
#DB SSL properties useSSL=
requireSSL=
verifyServerCertificate=
trustCertificateKeyStoreUrl=
trustCertificateKeyStorePassword=
clientCertificateKeyStoreUrl=
clientCertificateKeyStorePassword=
tlsVersion=
#Backup Folder Details
#purgeRecordsOlderThan=180
#backupFlag=y
#backupLocation=D:/Purge_Backup
the format for the scheduler should be in seconds minutes hours day-of-month
month day-of-week year (optional)
#schedulerExpression=0 0 12 2 1/? ? *
5. Modify the DB connection details as required, according to the following table:

In this field...	Do this..
dbServerIp	The default is localhost. Do the following: <ul style="list-style-type: none">• If you are running the UCM Purge Utility on the same server as the UCM database, accept the default.• If you are running the batch file on a different server from the UCM database, enter the IP Address of the UCM database server; for example: 123.10.10.321.

In this field...	Do this..
dbServerport	The default value is 3306. If different, enter the new value in this field; otherwise, accept the default.
dbUsername	The default value is sn_usr. If different, enter the new value in this field; otherwise, accept the default.
dbPassword	The default value is shipnowdb. If different, enter the new value in this field; otherwise, accept the default.
dbJDBCdriver	Accept the default value of com.mysql.jdbc.Driver
dbServerport	The default value is 3306. If different, enter the new value in this field; otherwise, accept the default.
dbUsername	The default value is sn_usr. If different, enter the new value in this field; otherwise, accept the default.
dbPassword	The default value is shipnowdb. If different, enter the new value in this field; otherwise, accept the default.

6. Modify the SSL Properties, as shown in following table:

Fields	Description
useSSL	Set this field to allow the SSL settings on the services. Valid values are:
requireSSL	Set this field to allow the connection between MySQL and the Services. Valid values are: <ul style="list-style-type: none"> • true • false The 'requireSSL' settings should be 'true' at Java Services and SSL settings should be configured at MySQL.
verifyServerCertificate	Set this field to verify the MySQL Server certificate. Valid values are: <ul style="list-style-type: none"> • true • false If verifyServerCertificate is set to true, then you need to configure trustCertificateKeyStoreUrl and trustCertificateKeyStorePassword fields.
Fields	Description

trustCertificateKeyStoreUrl	<p>Provide the path of the truststore file, which is created by executing the command from <u>Creating</u> and Importing Truststore section.</p> <p>For Example: file:/C:/mysql/truststore</p>
trustCertificateKeyStorePassword	<p>Provide the password to the certificate, which is created by executing the command from <u>Creating</u> and Importing Truststore section.</p> <p>For Example: testmysql</p>
clientCertificateKeyStoreUrl	<p>Provide the path of the keystore file, which is created by executing the command from <u>Creating</u> and Importing Client Keystore section.</p> <p>For Example: file:/C:/mysql/keystore</p> <p>This is optional field. If the credentials which you are using to connect to mysql has been configured with ssl_type as x509 then you need to import client certificate to keystore.</p> <p>You can check with the below query: SELECT ssl_type FROM mysql.user WHERE USER='<user name which is used to connect to database>';</p>
clientCertificateKeyStorePassword	<p>Provide the password to the keystore certificate which is created by executing the command from <u>Creating</u> and Importing Client Keystore section.</p> <p>For Example: mypassword This is optional field. If the credentials which you are using to connect to mysql has been configured with ssl_type as x509 then you need to import client certificate to keystore.</p>
tlsVersion	<p>Set the tlsVersion to 'TLSv1.2'.</p>

7. Modify the Backup Folder Details, as shown in following table.

In this field...	Do this..
purgeRecordsOlderThan	Specify the number of days to purge records older than or accept the default of 180 to purge records older than 180 days.
backupFlag	To back up the purged records as a set of CSV files, leave the default set to y. Change this value N if you do not want the purged records backed up. Note: When the purged records are backed up, a CSV file is created for each table in the transactional database from which data is deleted. The filename consists of the table name plus the date and a random number; for example: shipment_20160920_1233.csv
backupLocation	Enter the pathname where the CSV backup files are to be stored. Note: The default value is an example.

8. If required, modify the Backup Folder Details and remove the # character from the parameter lines to enable the code. **Note:** The backup process creates a different backup folder for each Flagship location, with a subfolder for each UCM carrier under that location.
9. To specify the Scheduler to automatically run the UCM Purge utility, remove the # from the schedulerExpression line and specify the scheduling values as indicated.

Creating and Importing Truststore

To create and import Truststore, follow these steps:

- Open a command prompt using Administrative privileges, and then Navigate to the \jre\bin folder:
 - UCM Purge: Navigate to UCM \jre\bin **For Example:** cd <Parcel Install Folder>\Flagship\ucm\java\jre\bin
- To import the MySQL server certificate (ca.pem) into keystore, execute the below command:
keytool -importcert -alias <alias-name> -file <path to ca.pem> -keystore <truststore path> -storepass <password>
For Example: keytool -importcert -alias MySQLCACert -file "C:\ProgramData\MySQL\MySQL Server 5.7\Data\ca.pem" -keystore

"c:/mysql/truststore" -storepass testmysql o keytool: This is the main tool to import the MySQL server certificate into keystore.

- o <alais-name> : Provide the name of the certificate file. **For Example:**MySQLCACert.
- o <path to ca.pem>: Provide the path of ca.pem that server uses.
For Example:C:\ProgramData\MySQL\MySQL Server 5.7\Data\ca.pem o
<truststore path>: Provide the path where you want to create the truststore file.

Note: Make sure there are no spaces in the path. **For Example:**c:/mysql/truststore o <password>: Provide the password to the certificate file. **For Example:**testmysql

3. For 'Trust this certificate? [no\:]' Type 'yes' or 'y' and then click <Enter> from your keyboard.

Now, the truststore file will get created. Configure the created truststore file and password from the above command in trustCertificateKeyStoreUrl and trustCertificateKeyStorePassword fields.

Creating and Importing Client Keystore

To create and import Client Keystore, follow these steps:

Note: Make sure that OpenSSL is installed on the Application Server. If it is not installed, please click below link to download and install: <https://www.openssl.org/source/a>

1. On Application Server, open a command prompt using Administrative privileges, and then Navigate to OpenSSL \bin folder. **Note:** If users copy certificates to Application Machine, they can execute the below command in Application Machine.
2. To convert client-cert.pem, client-key.pem to client-keystore.p12 file, execute the below command:

```
openssl pkcs12 -export -in <client-cert.pem path> -inkey <client-key.pem path>
name <name> -passout pass:<password> -out <client-keystore.p12 path> For Example:openssl pkcs12 -export -in "C:\ProgramData\MySQL\MySQL Server 5.7\Data\client-cert.pem" -inkey "C:\ProgramData\MySQL\MySQL Server 5.7\Data\client-key.pem" -name "mysqlclient" -passout pass:mypassword -out "c:\mysql\client-keystore.p12"
```

<client-cert.pem path>: Provide the path of client certificate.

For Example:C:\ProgramData\MySQL\MySQL Server 5.7\Data\client-cert.pem

<client-key.pem path>: Provide the path of client-key.pem.

For Example:C:\ProgramData\MySQL\MySQL Server 5.7\Data\client-key.pem

<name>: Provide the client certificate keystore name.

For Example:mysqlclient

<password>: Provide the password to the client-keystore.p12 file.

Note: Same password should be used while importing with keytool for Step

3. **For Example:**mypassword

<client-keystore.p12 path>: Provide the path of client-keystore.p12 file.
For Example:c:\mysql\client-keystore.p12

3. To import client-keystore.p12 file to keystore, open command prompt using Administrative privileges in Application (Modules), and then Navigate to \jre\bin folder.

For Example:cd <Parcel Install Folder>\Flagship\java\jre_x86\bin Execute the below command:

```
keytool -importkeystore -srckeystore <client-keystore.p12 path> -srcstoretype pkcs12 -srcstorepass <p12 file password> -destkeystore <keystore path> -deststoretype JKS -deststorepass <password>
```

For Example:keytool -importkeystore -srckeystore c:\mysql\client-keystore.p12 -srcstoretype pkcs12 -srcstorepass mypassword -destkeystore c:\mysql\keystore -deststoretype JKS -deststorepass mypassword

- keytool: To import keystore.p12 to keystore.
 - <client-keystore.p12 path>: Provide the path of client keystore.**For Example:**c:\mysql\client-keystore.p12
 - <p12 file password>: Provide the password of client keystore.**For Example:**mypassword
 - <keystore path>: Provide the client certificate keystore path.**Note:** Make sure there are no spaces in the path.**For Example:**c:\mysql\keystore
 - <password>: Provide the password to the client certificate key store.**For Example:**mypassword
- Now, the keystore file will get created.
Configure the created keystore file and password from the above command in clientCertificateKeyStoreUrl and clientCertificateKeyStorePassword fields.

Viewing UCM Purge Results

To manually run the UCM Purge Utility and view results:

1. Run the UCM-Purge-Service-Test.bat file.
2. To see the results of the test purge, from the UCM menu, select UCM Purge History.
3. Parcel displays the purge history.

Uninstalling the Purge Utility

To uninstall the Purge Utility, follow these steps:

1. Open Command Prompt as Administrator.
2. Navigate to the below path:C:\Program Files (x86)\Kewill\Flagship\ucm\java
3. Run the UCM-Purge-Service-Uninstall.bat file.

This removes the Purge Utility as a Windows service, but still enables you to run the Purge Utility on demand.