



APELON

BECAUSE TERMINOLOGY MATTERS

75 Sgt William B Terry Dr, Suite 2005, Hingham, MA 02043

+1 (203) 431-2530

[www.APELON.com](http://www.APELON.com)

[www.ApelonDTS.org](http://www.ApelonDTS.org)

# DTS 4: Migration Guide

Table of Contents

**A. DTS 3.5.2 to DTS 4 Migration Guide .....3**

    A.1 Overview ..... 3

**B. Migration Wizard Step-by-Step.....4**

    B.1 Database Connection..... 4

    B.2 Namespace Migration ..... 7

    B.3 Subset Migration ..... 10

    B.4 User Namespace Write Permissions Migration ..... 14

## **A. DTS 3.5.2 to DTS 4 Migration Guide**

### **A.1 Overview**

This Migration Guide was prepared to help administrators migrate Namespaces, Subsets and User Permission from Apelon DTS 3.5.2 to Apelon DTS 4

## B. Migration Wizard Step-by-Step

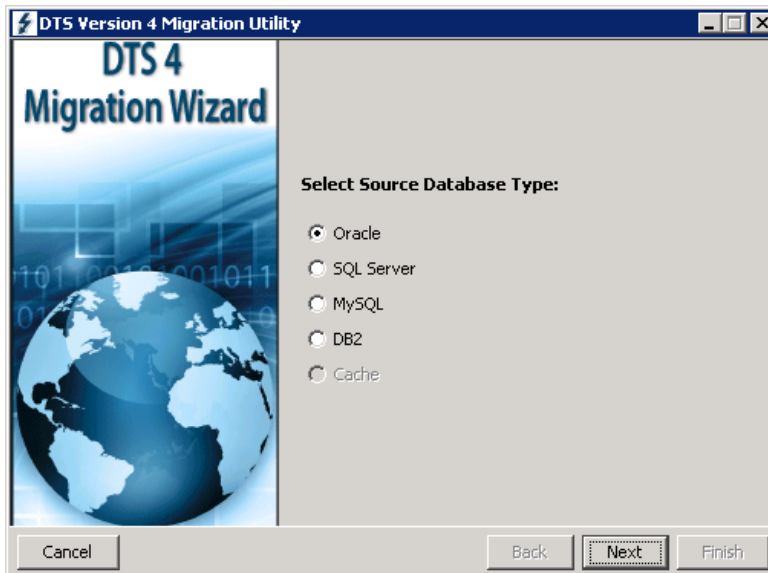
### B.1 Database Connection

1. Select **Migration Wizard** from the *Windows Start* menu.

The *Welcome* window displays. Click **Next**.



2. Select the **Source Database Type** of the *DTS 3.5.2* database to migrate data *from* and click **Next**. Your selection is saved and pre-selected the next time the wizard is run.



## DTS 4: Migration Guide

3. Enter the database connection parameters for the **DTS 3.5.2** database to migrate data **from** and click **Next**.

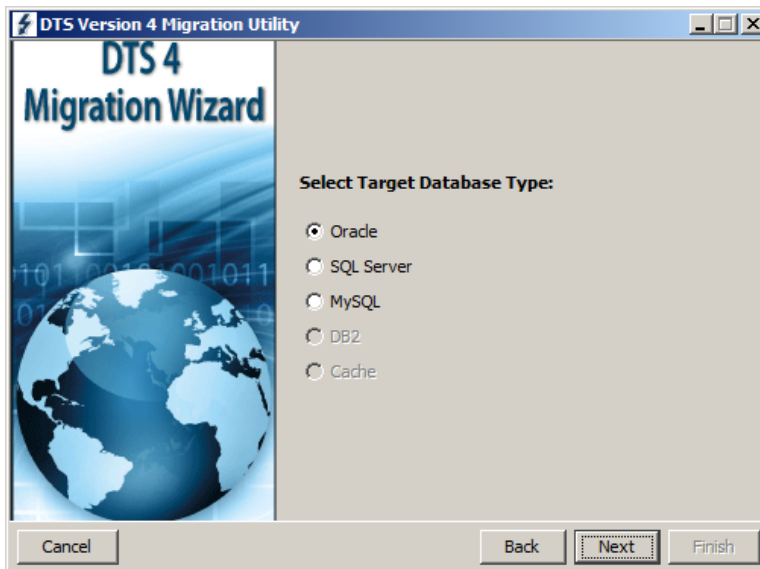


The screenshot shows the 'DTS 4 Migration Wizard' window. On the left is a graphic with a globe and binary code. The main area is titled 'Enter Source Database Parameters:' and contains the following fields:

- User: dts352
- Password: \*\*\*\*\*
- Host: localhost
- Port: 1521
- Instance: orcl
- Driver: oracle.jdbc.driver.OracleDriver

At the bottom are buttons for 'Cancel', 'Back', 'Next', and 'Finish'.

4. The Migration Wizard will attempt a connection to the source database and verify that the database is at the correct version. A message will be displayed to the user **if the connection fails** or **if the database is not of the correct version**, and the user will be able to correct the database connection parameters. The specified parameters are saved and pre-populated the next time the wizard is run.
5. Select the type of **DTS 4** database to migrate data **to** and click **Next**.
6. **Note:** At this time, only Oracle and SQL Server are supported.



The screenshot shows the 'DTS 4 Migration Wizard' window. On the left is a graphic with a globe and binary code. The main area is titled 'Select Target Database Type:' and contains five radio button options:

- ☒ Oracle
- ☐ SQL Server
- ☐ MySQL
- ☐ DB2
- ☐ Cache

At the bottom are buttons for 'Cancel', 'Back', 'Next', and 'Finish'.

## DTS 4: Migration Guide

7. Enter the target Database connection parameters for the **DTS 4** database to migrate data to and click **Next**.

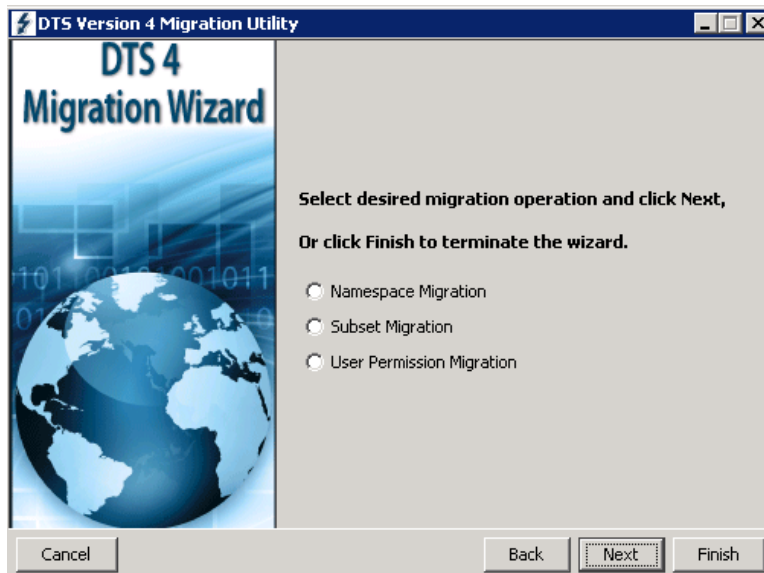


The screenshot shows the 'DTS 4 Migration Wizard' dialog box. The title bar reads 'DTS Version 4 Migration Utility'. The left pane features a globe graphic and the text 'DTS 4 Migration Wizard'. The right pane is titled 'Enter Target Database Parameters:' and contains the following fields:

- User: dts4
- Password: \*\*\*\*
- Host: localhost
- Port: 1521
- Instance: orcl
- Driver: oracle.jdbc.driver.OracleDriver

At the bottom, there are four buttons: 'Cancel', 'Back', 'Next', and 'Finish'.

8. The wizard will attempt connection to the target database and verify that the database is the correct version. A message will be displayed to the user **if the connection fails** or **if the database is not of the correct version**, and the user will be able to correct the database connection parameters. The specified parameters are saved and pre-populated the next time the wizard is run.
9. Select the desired migration operation from *Namespace Migration*, *Subset Migration*, or *User Permission Migration* and click **Next**.
10. **Note:** The operation of each option is detailed below.



The screenshot shows the 'DTS 4 Migration Wizard' dialog box. The title bar reads 'DTS Version 4 Migration Utility'. The left pane features a globe graphic and the text 'DTS 4 Migration Wizard'. The right pane contains the following text:

Select desired migration operation and click Next,  
Or click Finish to terminate the wizard.

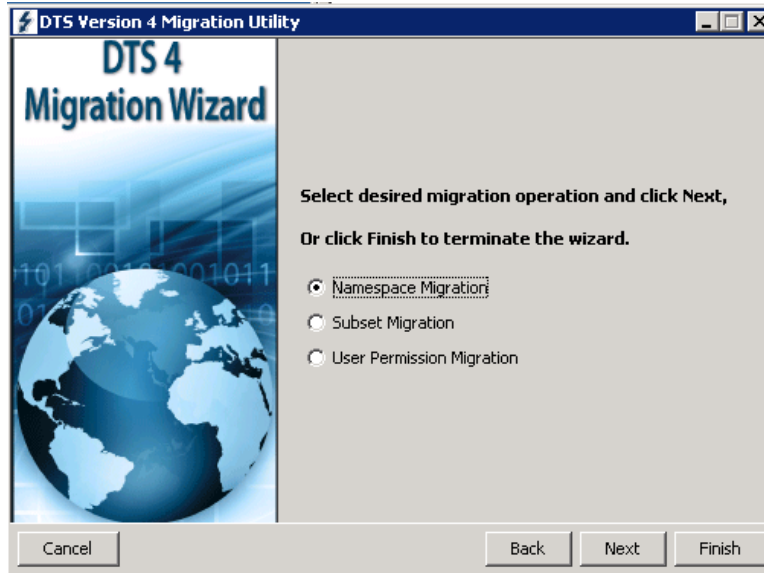
Below this text are three radio button options:

- ☐ Namespace Migration
- ☐ Subset Migration
- ☐ User Permission Migration

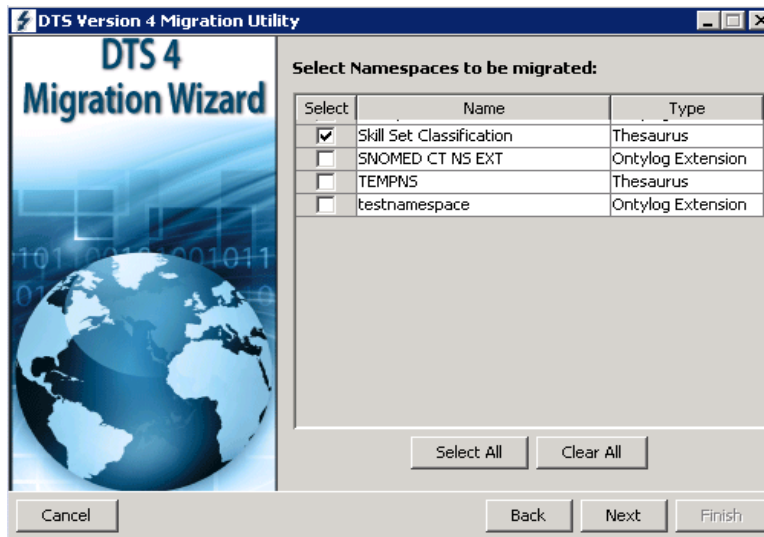
At the bottom, there are four buttons: 'Cancel', 'Back', 'Next', and 'Finish'.

## B.2 Namespace Migration

1. Select Namespace Migration and click **Next**.



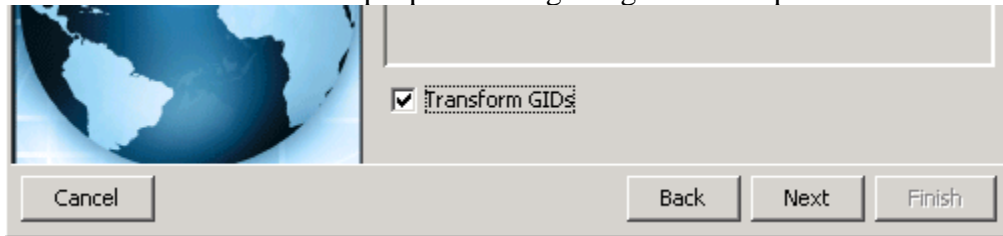
2. A selection of local namespaces present in the source database is presented. Select the desired local namespace(s) to migrate and click **Next**.



3. The wizard will verify that the selected namespaces can be migrated to the target database. The following conditions are checked:
4. If your local namespace has connections to subscription namespaces the subscription namespace versions in the source and target databases must match prior to performing a namespace migration.

5. If the namespace contains property types that are applied to concepts in other namespaces, those other namespaces must either be present in the target database, or be part of the current migration operation.
6. If the namespace contains association types that are applied to concepts (either ‘from’ or ‘to’) in other namespaces, those other namespaces must either be present in the target database, or be part of the current migration operation.
7. If any concepts in the namespace have synonyms that exists in another namespace, or any terms in the namespace are synonyms of a concept in another namespace, those other namespaces must either be present in the target database, or be part of the current migration operation.
8. If any prerequisite namespaces are not present in either the target database or the current migration, a message will be displayed detailing which selected namespace are missing prerequisites, and what prerequisites are missing. The user will be able to deselect the offending namespaces.
9. Confirm the namespaces from the list of selected namespaces. All namespaces are pre-selected.

**NOTE:** If migrating Ontylog Extension Namespaces that extend SNOMED CT (Namespace ID = 30) then you will need to check the “Transform GIDs” checkbox. This will compare the Property Type “Code in Source” values between the DTS 3.5.2 and DTS 4 SNOMED CT concepts prior to migrating the namespace.



10. Click **Next**. Migration of the selected namespace begins.

**Note:** If a selected namespace already exists in the target database, the namespace is skipped. If the namespace was part of a previous migration that was interrupted, migration of that namespace will resume where the previous migration stopped.



11. When the Migration is complete click **Next**.

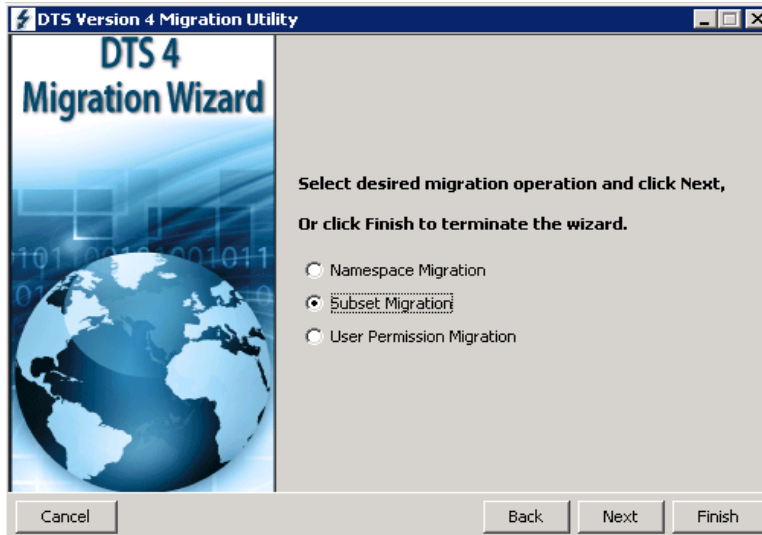


12. When the migration wizard is complete, click **Next** to perform another migration or click **Finish** to close the wizard. Check the box to view the log file, if desired.



## B.3 Subset Migration

1. Select Subset Migration and click Next.



2. Select the subsets to migrate to the target database.



3. Optionally, select the “Use ALL status modifier” checkbox if you prefer the subsets’ expression statuses to be “ALL” instead of the default “ACTIVE” value.
4. Also, the option to “Build” all migrated subsets in DTS 4 after they are successfully migrated to DTS 4 is performed when selecting the “Build subsets after migration” checkbox.

## DTS 4: Migration Guide

- If the “Build subsets after migration” option is checked, after clicking **Next** the following window requesting DTS 4 Server Connection Parameters will be presented. Enter the connection parameters to the DTS 4 Server that is associated with the DTS 4 schema where the subsets are migrated to (Target Database).

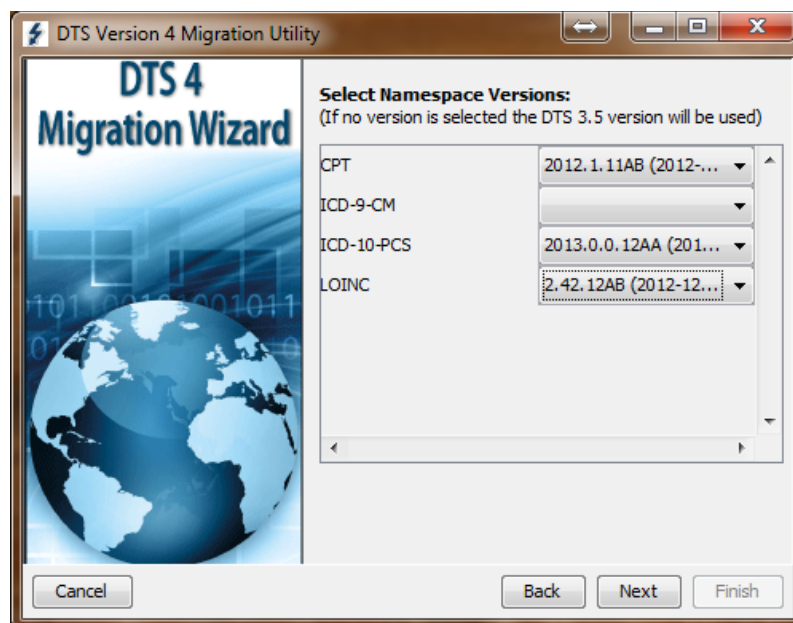


The screenshot shows the 'DTS 4 Migration Wizard' window. On the left is a graphic with a globe and binary code. The main area is titled 'Enter DTS Server Connection Parameters:' and contains the following fields:

Field	Value
User	dtsadminuser
Password	••••••••
Host	localhost
Port	7447
Instance	dtsjboss
Driver	DTS Server Connection

At the bottom are three buttons: 'Cancel', 'Back', and 'Next' (which is highlighted with a blue border). A 'Finish' button is also present but disabled.

5. After selecting the subsets to migrate to the target database click **Next**. The next window to display will allow for the selection of the chosen subsets' Namespace Versions. From each Namespace dropdown, choose the desired Namespace Version located the target database. If no Namespace Version is selected, the Namespace Version from the DTS 3.5.2 source database will be used by default.



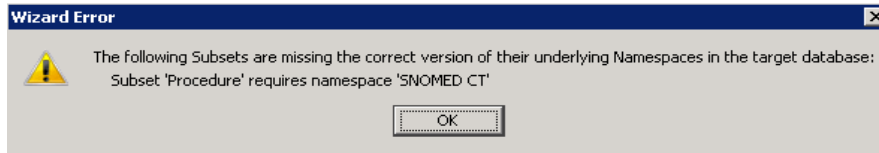
The screenshot shows the 'DTS 4 Migration Wizard' window at the 'Select Namespace Versions' step. The title is 'Select Namespace Versions:' with a subtitle '(If no version is selected the DTS 3.5 version will be used)'. The main area contains a list of namespaces with dropdown menus for selecting versions:

Namespace	Selected Version
CPT	2012.1.11AB (2012-...
ICD-9-CM	
ICD-10-PCS	2013.0.0.12AA (201...
LOINC	2.42.12AB (2012-12...

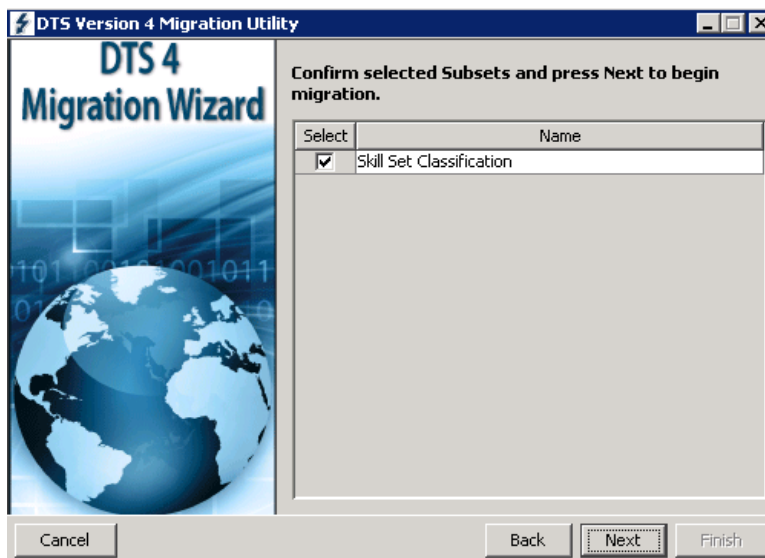
At the bottom are three buttons: 'Cancel', 'Back', and 'Next' (which is highlighted with a blue border). A 'Finish' button is also present but disabled.

## DTS 4: Migration Guide

- After clicking **Next**, the wizard will verify that the underlying namespaces of the selected subsets are present in the target database. If any prerequisite namespaces **are not present** in the target database, a message like the one shown below will be displayed detailing which selected subsets are missing prerequisites. The user will be able to deselect the offending subsets.



- Confirm the subsets from the list of selected subsets. All subsets are pre-selected. Click **Next**. Migration of the selected subsets will begin.



- When the Migration is complete click **Finish**.

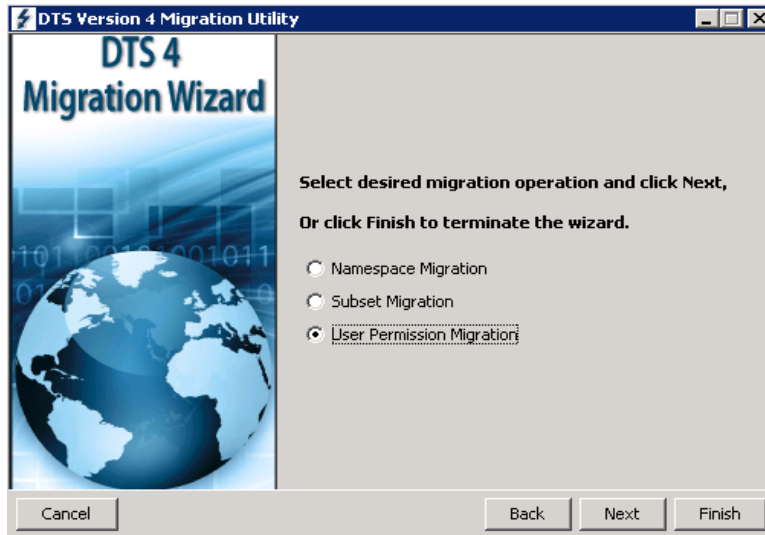


- **Note:** If a selected subset already exists in the target database, the subset is skipped. Also, if a subset references concepts that are not present in the Target namespace then the subset is skipped.
9. When the migration wizard is complete, click **Next** to perform another migration or click **Finish** to close the wizard. Check the box to view the log file, if desired.

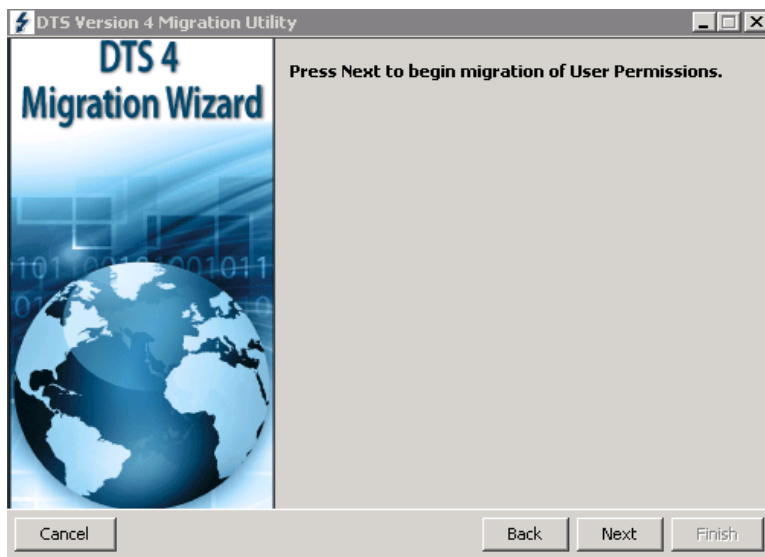


## B.4 User Namespace Write Permissions Migration

1. Select User Permission Migration and click **Next**.



2. User Namespace Write Permissions are migrated for each namespace in the source database. If a namespace does not exist in the target database, user namespace Write permissions for that namespace are skipped, click **Next**.



## DTS 4: Migration Guide

- When the Migration is complete click **Next**.



- When the migration wizard is complete, click **Next** to perform another migration or click **Finish** to close the wizard. Check the box to view the log file, if desired.

