Analyzing and Fix the Failed Transports in SAP BW

Applies to:

SAP BI 2004s or SAP BI 7.0. For more information, visit the EDW homepage.

Summary

This article explains how to locate the transports for any BW object such as infoObject, cube, DSO etc. It also describes common errors while transporting BW objects and method to fix them. This is helpful in scenarios where one wants to synchronize the Development system with other systems like Quality and Production. This can also be referred while implementing Enhancement Packs in BW system wherein we need to locate the transports for inactive objects to fix the issues before upgrade.

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Introduction

Development projects for Business Intelligence (BI) are generally carried out in development system.

Once the development has been completed as per the requirements, the same needs to reflect on the Target system (Quality or Production system). To move all this development to Target System we make use of Transports feature in SAP BI.

A Transport is basically a file which contains metadata definition of the transported objects in XML format.

A typical BW system landscape is as shown below. The objects both in BI and ECC source system are transported from development to quality for testing and then to the production. First the objects in ECC source system are transported on the Target machine. All the transported objects are then replicated to their corresponding BI Systems, after which, the BI objects are transported to their target system.
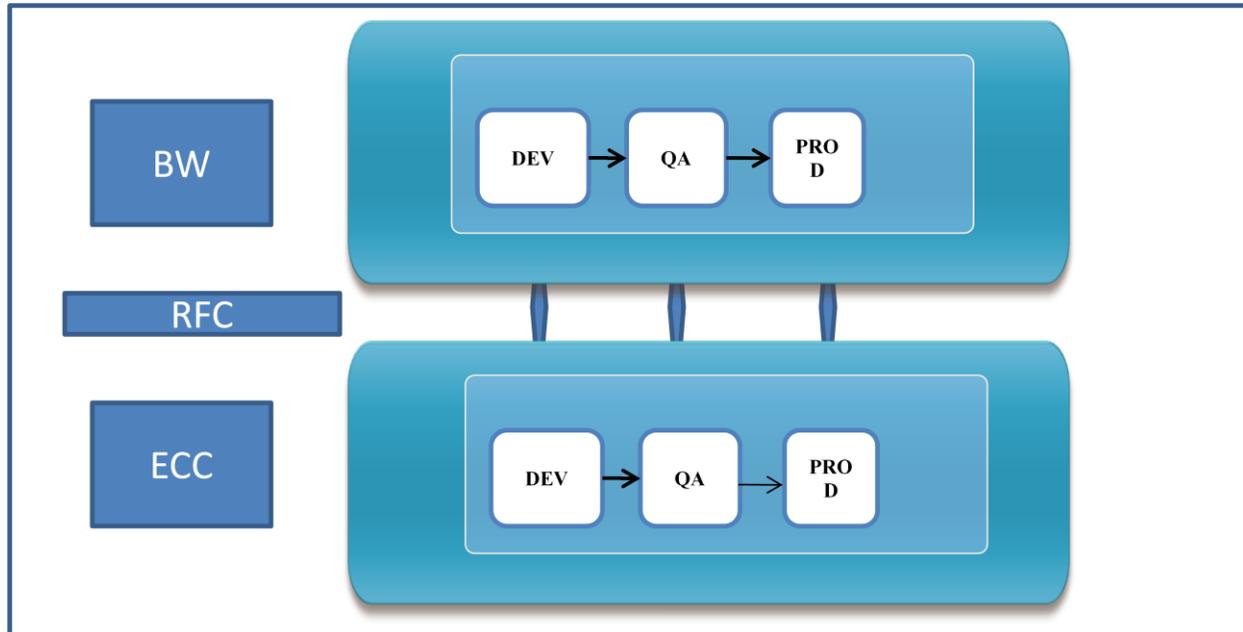
When we find any inactive object in the system, we would like to track its failed transports to analyze and fix the issue. This document explains the process of locating the transports for any BW object and analyzing its failed transports.

Locate the Transport for BW Object:

Step 1:Go to T-code SE03 and select the option - "Search for objects in Requests/Tasks"
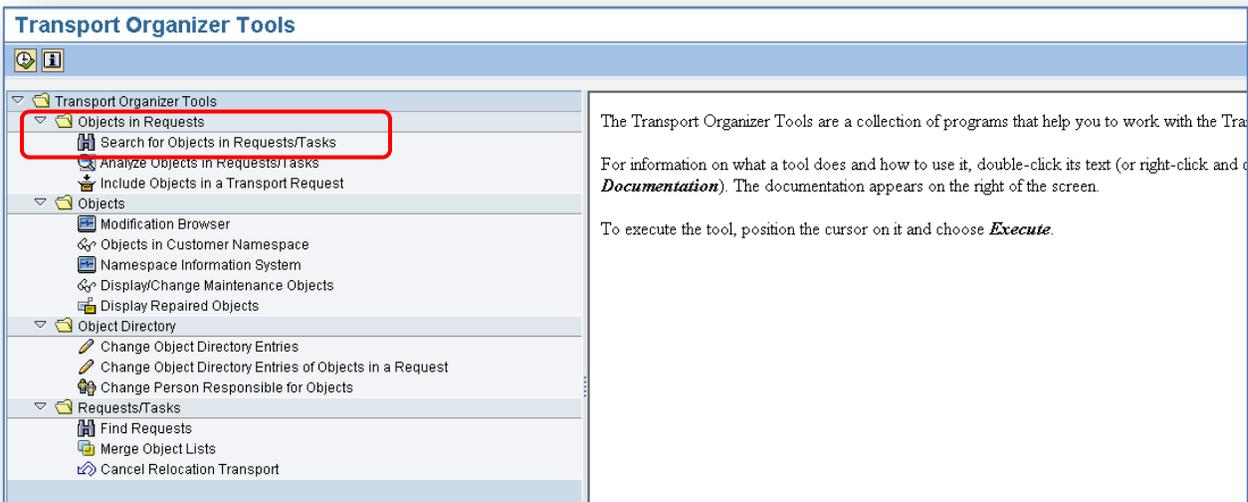

Step 2: You get the following screen. Select the Object type (e.g. IOBJ for InfoObject, TRFN for transformation) and provide the object's technical name. Now click on Execute
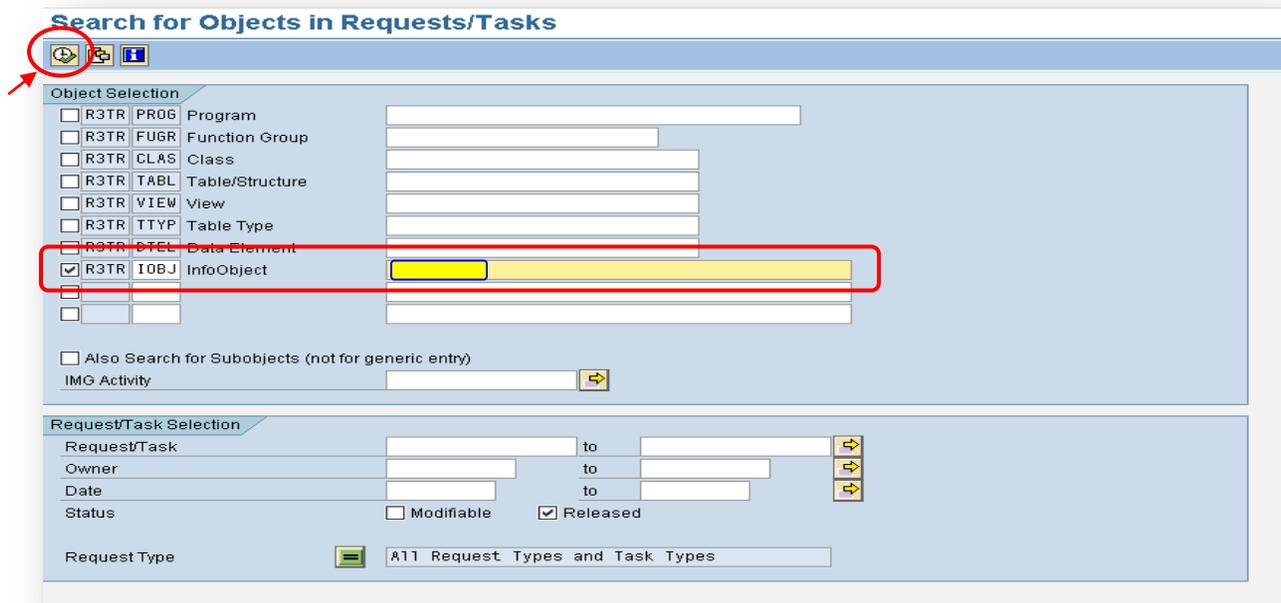
Step 3: You get another screen with all the released transports for this object till date.Now, select the transport request Id. Click on display as shown in the below screenshot.

(This takes you to T-Code SE09).
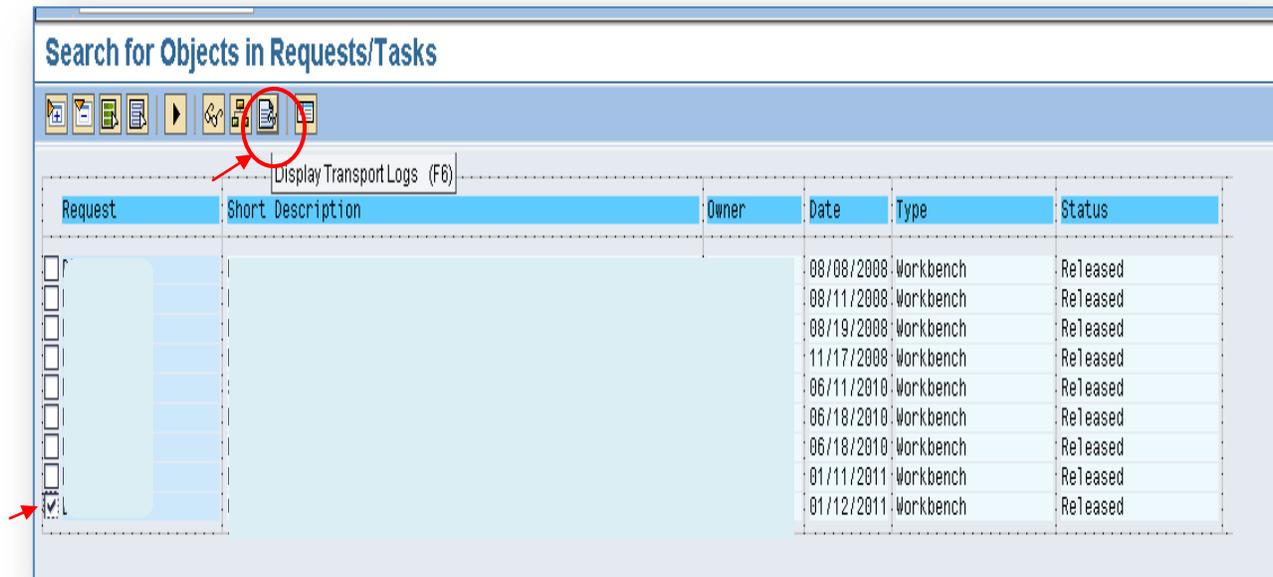
Step 4: You get detailed log of the transport
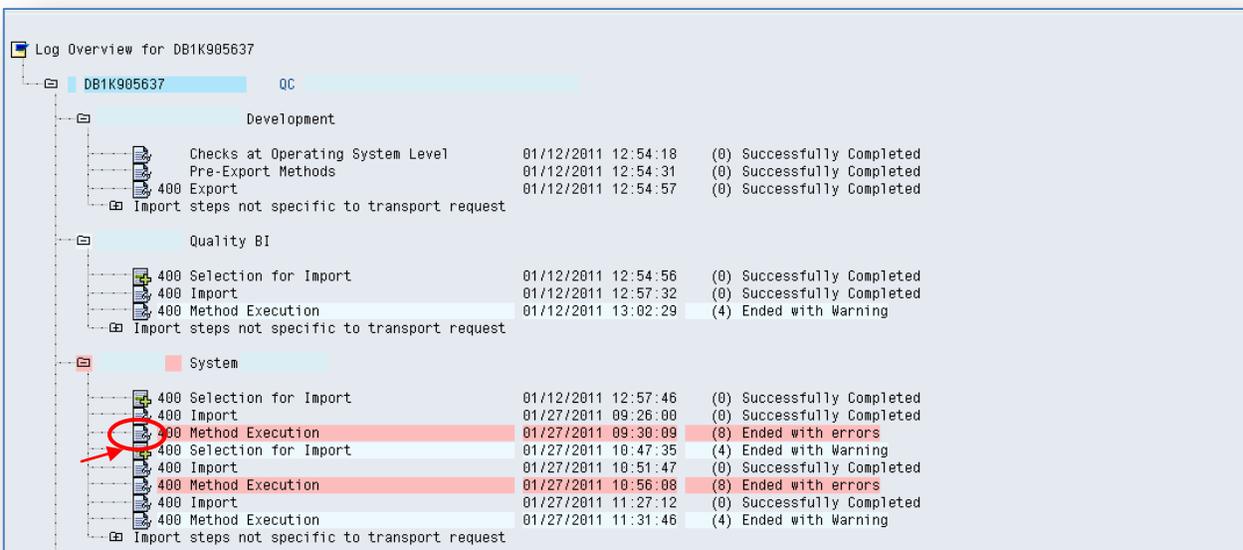
From here, you will be able to analyze the reason for failure of this transport by clicking on - "display logs".

The same results can be achieved from the table E071 as well.

In the T-code SE16, go to table E071.Provide the Object Name and click on Execute

Data Browser: Table E071: Selection Screen

Request/Task		to		⇨
Dictionary: Line item		to		⇨
Program ID		to		⇨
Object Type		to		⇨
Object Name		to		⇨
Function		to		⇨
Status		to		⇨
Information Key		to		⇨
Language		to		⇨
IMG Activity		to		⇨

Width of Output List	250
Maximum No. of Hits	200

From here, you get a list of all the released transports of this object till date.

Now, let's see some errors we get while transporting BW objects:

Transport Errors in BW:

Transport Error 1: InfoObject Still being used in Infoprovider

```
⚠ Start of the after-import method RS_IOBJ_AFTER_IMPORT for object type(s) IOBJ (Activation Mode)
⚠ InfoObject          (or ref.) used in InfoProvider with data managmnt.-> Error:
⚠ InfoObject          : Data Type was changed from NUMC to CHAR
⚠ InfoObject          still being used in DataSore object          (contains data)
⚠ InfoObject          still being used in DataSore object          (contains data)
⚠ Master Data Table              contains data: Characteristic          cannot be activated
⚠ SID Table          contains data: Characteristic          cannot be activated
```

Reason: The infoObject type was changed, but in the target system, it's still being used in one of the infoproviders.

➢ When an infoObject is modified and need to be transported to another system. It is mandatory to delete data from all those infoproviders which use that infoObject.

Solution: Before transporting the modified infoObject, delete data from the infoproviders of target system which use this infoObject. Then transport the infoObject.

Transport Error 2: Syntax Error in Routine

```
⚠ Start of the after-import method RS_TRFN_AFTER_IMPORT for object type(s) TRFN (Activation Mode)
⚠ Rule (target: 0CO_ITEM_TX, group: 01 Standard Group): Syntax error in routine
⚠ Rule (target: 0RSTT_TSMP, group: 01 Standard Group): Syntax error in routine
```

Reason: Transport for a transformation generally fails with this error.

➢ In some cases, it is syntax error in start/end/field level routine.
➢ But sometimes, we find that there is no syntax error. All its routines might not get transported along with the transformation.

Solution: If its syntax error, correct it and re transport.

In second case, go to T-code SE09, check the transport again. You may find that corresponding routines didn't get captured.

➢ Go to Transport Connection, capture transformation along with its routines and re-transport.

Transport Error 3: Source System does not Exist, Data Source Corrupted

```
⚠ Start of the after-import method RS_RSDS_AFTER_IMPORT for object type(s) RSDS (Delete Mode)
⚠ Source system |        does not exist
  Deletion of Objects with Type DataSource
```

Reason: Suppose this datasource is in BW system named DEV-BW1, so it should point to its corresponding source system named DEV-ECC1. But in this case, it got corrupted and is pointing to another source system ECC-DEV2.

➢ Generally, this kind of error occurs due to system copy/refresh in BW system
➢ The datasource start pointing to wrong client

Solution: Check the datasource in original ECC system DEV-ECC1. If it's available there, then, replicate datasource in BW and now, transport the BW datasource.

If the datasource is not available in DEV-ECC1, then first transport ECC datasource, replicate it in BW and finally, transport the BW datasource.

If this does not help, contact the Basis team to resolve the issue.

Transport Error 4: Datasource not Available in Source System

```
⚠ Start of the after-import method RS_RSDS_AFTER_IMPORT for object type(s) RSDS (Activation Mode)
⚠ InfoSource          is not available in source system
⚠ Error when activating DataSource
```

Reason: BW datasource is transported without having moved its corresponding transport for ECC datasource

➢   This error occurs when the sequence of transports is not correct.

Solution: First transport ECC datasource to target ECC system. Then replicate the datasource in BW. And finally, send BW datasource to its target BW system.

Transport Error 5: Assignments not Maintained

```
⚠ Start of the after-import method RS_ALVL_MPRO_AFTER_IMPORT for object type(s) MPRO (Activation Mode)
⚠ Assignments for InfoObject 0WBS_ELEMT__0APPR_YEAR have not yet been maintained -> Long text
⚠ Assignments for InfoObject 0WBS_ELEMT__0PROG_DEF_S have not yet been maintained -> Long text
⚠ Assignments for InfoObject 0WBS_ELEMT__0PROG_POS have not yet been maintained -> Long text
⚠ Inconsistencies were found when checking MultiProvider _. .. .....
```

Reason: For few characteristics/Navigational attributes in the multiprovider, the assignments have not been maintained.

Solution: Check and maintain the assignments for mentioned fields and re-import the multiprovider.

Transport Error 6: InfoObject Found Inactive

```
⚠ Start of the after-import method RS_ODSO_AFTER_IMPORT for object type(s) ODSO (Activation Mode)
  Activation of Objects with Type DataStore Object
⚠ InfoObject          not available in version A
⚠ InfoObject          not available in version A
  Checking Objects with Type DataStore Object
  Checking DataStore Object
⚠ InfoObject          not available in version A
⚠ Inconsistencies found while checking DataStore object
  Saving Objects with Type DataStore Object
```

Reason: DSO is transported prior to moving the infoObject

➢   This error occurs when the sequence of transports is not correct

Solution: First transport the infoObject, then the DSO in which this infoObject is used.

Related Content

http://wiki.sdn.sap.com/wiki/display/BI/Transport+a+specific+Infoobject+in+BW

http://wiki.sdn.sap.com/wiki/display/BI/Transport+Sequence+in+SAP+BW

http://help.sap.com/saphelp_nw04/helpdata/en/0b/5ee7377a98c17fe10000009b38f842/frameset.htm

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