

Issues & Resolution for BW Enhancement Pack Upgrade



Applies to:

SAP BI 2004s or SAP BI 7.0

Summary

This article highlights the issues faced while upgrading the SAP BW Netweaver 7.0 system to Enhancement Pack 1 and the possible solutions.

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Author Bio



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Introduction

Traditional upgrades of SAP System are time consuming, costly and require long downtimes of Production Environments which in turn affects the business. Despite all this cumbersome process the systems need to be upgraded to keep it updated and compliant. SAP provided a solution to this by providing various Enhancement Packs which add the new features and functionalities in a modular fashion, keeping the core system stable. This approach enables to manage cost and time for implementation while adding value to business. These packs are more convenient as they allow an organization to flexibly choose a part of enhancement pack for installation according to the business needs.

This document explains the various issues and their resolutions during the upgrade of BW system from BW 7.0 SP20 to EHP1 SP7.

Through this Document, we aim to cover the following:

- Overview of EHP1 upgrade
- Phases in Upgrade process
- Issues

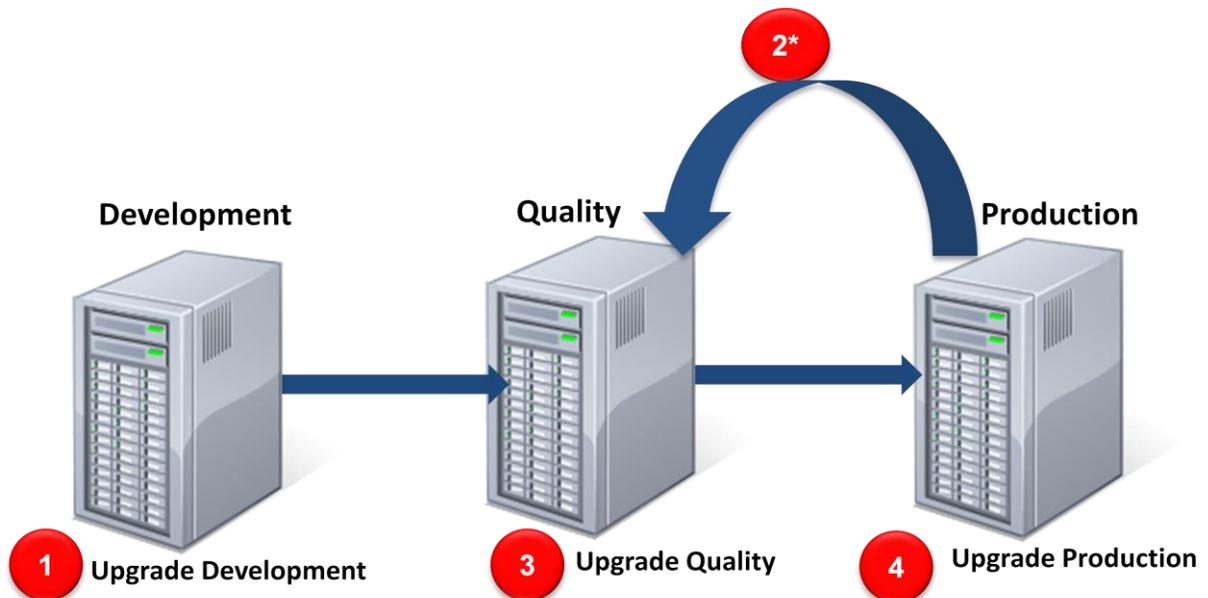
Scenario

Assuming the basic scenario of having three main systems in the BI Landscape:-

1. Development System
2. Quality System
3. Production System

Steps followed in the considered approach:-

1. Upgrade of Development System
2. System Copy of Production system on the Quality system
3. Upgrade of Quality System
4. Upgrade of Production System



Note: * Usually the production environment is copied to Quality to simulate the actual upgrade of Production and handle the issues beforehand .

Phases



Initiation

EHP1 Installation is done by the Basis team. New Installation tool for EHP1 upgrade is used to carry out the actual EHP1 installation, this also provides monitoring capabilities.

This can be downloaded from service.sap.com

The BI team performs certain checks like removing inconsistent objects, open transports etc so that the System is ready to run the installer without any problem.

Upgrade

Actual upgrade is carried out by Basis team which includes activities like taking system backup as well as data base backup, Running SAP Enhancement Pack Installer, Apply OSS Notes, Checking ABAP+JAVA Configurations etc.

Post Upgrade Activities

This consists of checking the consistency by comparing the upgraded system to the original one. Some of the activities are :

- SPAU and SPDD checks – to check if valid SAP notes are implemented correctly in upgraded system.
- Check if any BW objects have turned inactive after upgrade.
- Checking the connectivity from BI to external systems like R/3, Teradata etc.
- Re-scheduling the jobs/process chains back to original schedule.

Issues and resolutions:

Issue 1

Infopackage failure: Error “**Datasource <NAME> need to be replicated**” as shown below:

<p>DataSource see long text)</p> <p>Message no. R3016</p> <p>Diagnosis</p> <p>DataSource _____ does not have the same status as the source system in the Business Information Warehouse.</p> <p>The time stamp in the source system is 01/18/2011 06:22:54.</p> <p>The time stamp in the BW system is 09/08/2010 12:30:26.</p> <p>System Response</p> <p>The load process has been terminated.</p> <p>Procedure</p> <p>Copy the DataSource again and then activate the transfer rules that belong to it. You have to activate the transfer rules in every case, even if they are still active after the DataSource has been copied.</p>	<p>has to be replicated (time stamp,</p>
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Analysis:

In some cases, after the upgrade the timestamp for Data Source in the BW system is not updated and hence the mismatch of time stamp in Source system with BW system leads to the infopackage failure.

Solution:

Datasource should be replicated and activated in BW.

Issue 2

Infopackage failure : Error – “**No transfer structure available for infosource <NAME> in source system**”.

Analysis:

This is error R3007 and is caused if table ROOSGEN does not contain an entry for the erroneous Datasource.

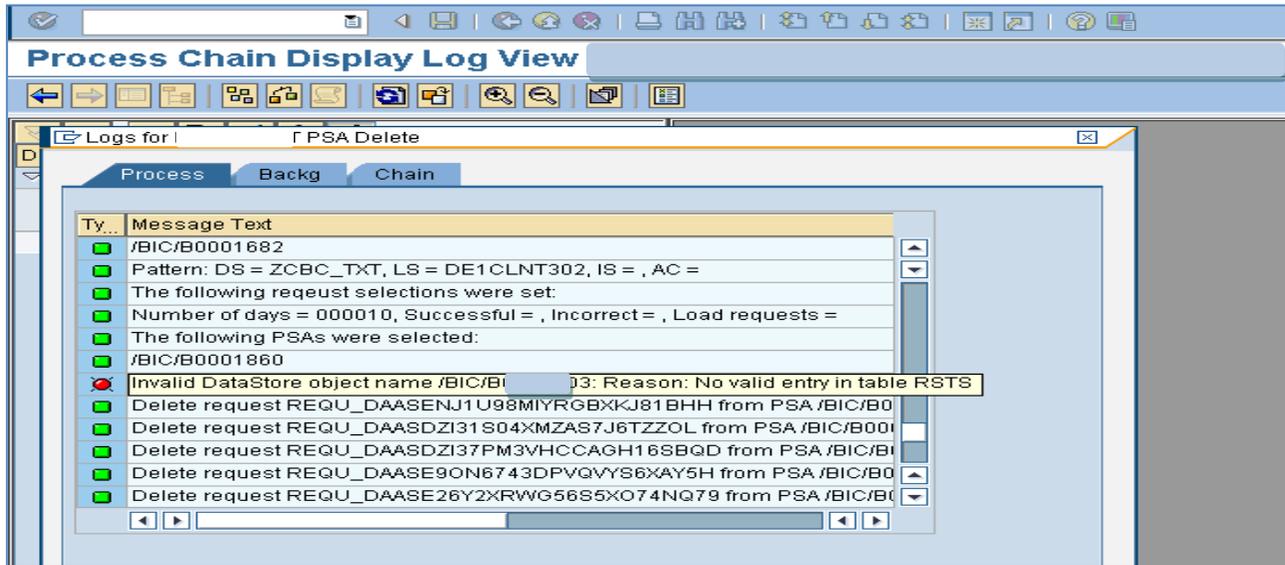
The entries in ROOSGEN table are generated in \$TMP (Temporary package) and sometimes after upgrade, they disappear. This is a common occurrence. It may happen if the extract structure of a DataSource gets a new timestamp. This is normal because very often DataSources are enhanced, adjusted or changed between different releases. Therefore after upgrades, the normal procedure should be to replicate the DataSources into BW in order to get the currently valid set of metadata.

Solution:

In case of 7.0 DataSources, you need to reactivate them by using the program RSZ_DATASOURCES_ACTIVATE_ALL and if the issue occurs for few datasources, they can be activated manually also.

Issue 3

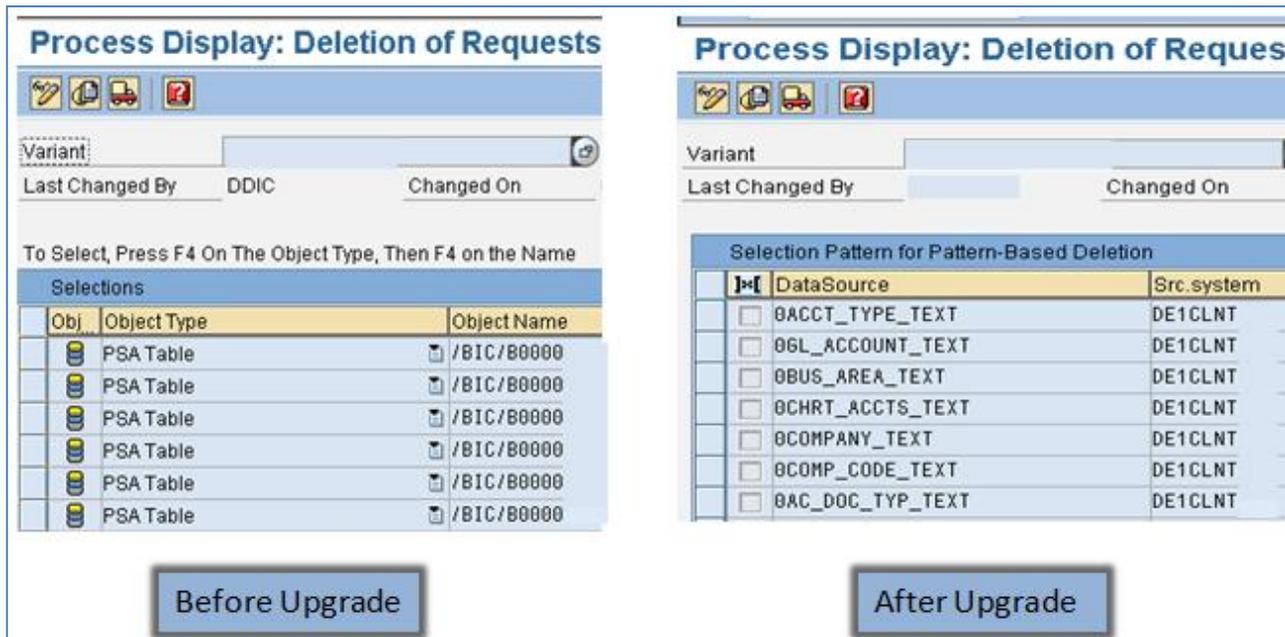
PSA deletion via process chain fails with the error – “No valid entry in table RSTS”:



Analysis :

The GUI of PSA Deletion Variant in process chain gets modified after the EHP Upgrade. Instead of displaying the PSA tables, now it displays the corresponding datasource names as shown in the screenshot below.

The table RSTSODS, shows two active entries for each object name field (each datasource), for different clients.



Solution:

Apply the SAP note # 1377274. The process chains for PSA deletion will run fine. Also, in table RSTSODS, now we have 2 entries for each object field, both PSA tables pointing to same client one is ACT and other is INA.

Issue 4

Some infopackages fail with the error- "Partner Profile inactive" :

EDI: Partner profile not active

Message no. E0333

Diagnosis

Only an inactive partner profile was found with the following key.

_NT392/LS/

This involves the key fields of table EDPP1.

-PARNUM partner number
-PARTYP partner type

Procedure

Please check the EDI partner profile.
Processing can only be carried out for an active partner.

Analysis :

A partner profile is defined for every business partner with whom you exchange business documents. A partner can be a customer, a vendor, a bank, or any entity with which your company does business or a remote SAP system or legacy system with which you exchange data..

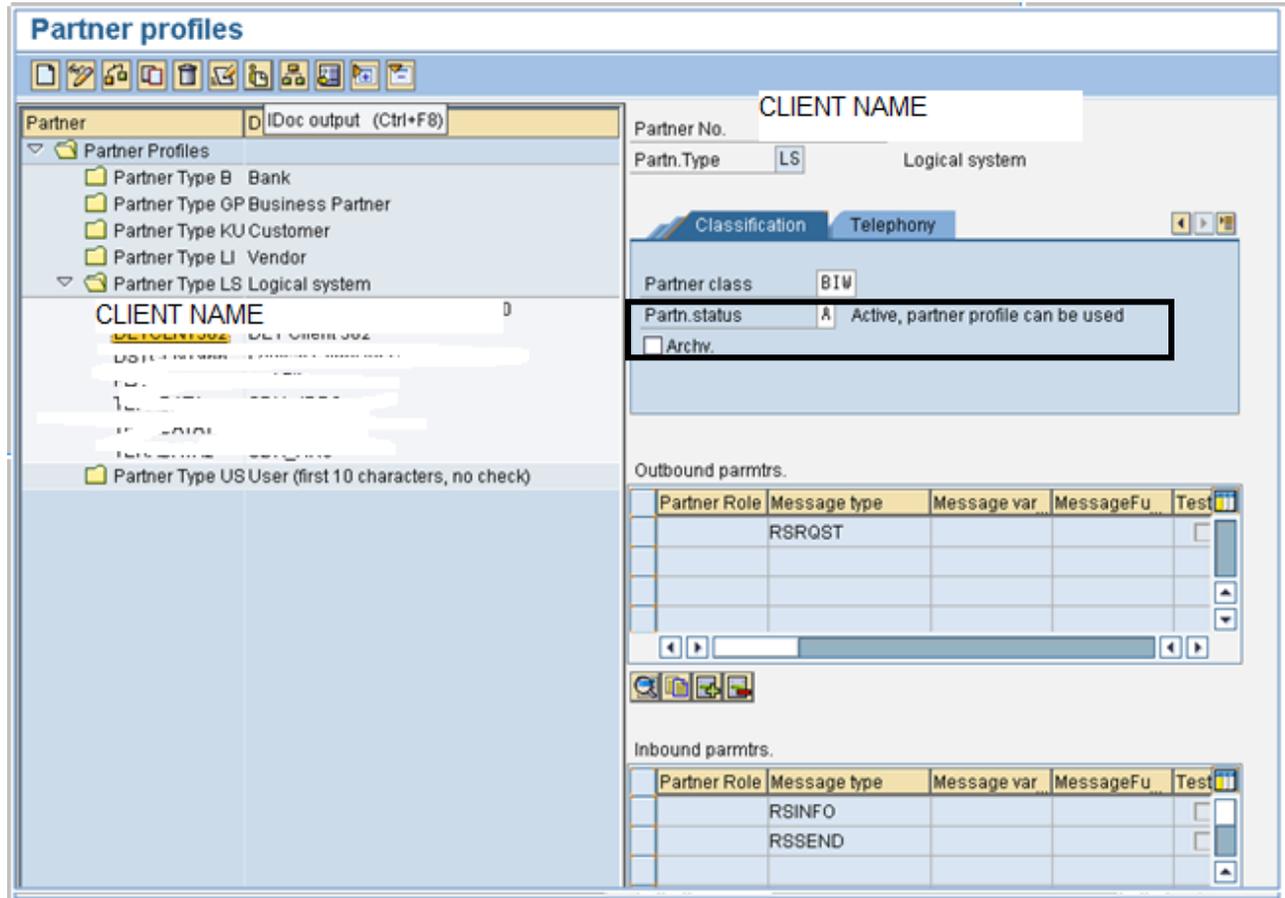
A partner profile has three views, which maintain different parameters for a partner.

1. The General Parameters view : Values are stored in table EDPP1.
2. The Outbound Parameters view : Values are stored in table EDP13, except for the Message control parameters, which are stored in table EDP12.
3. The Inbound Parameters view : Values are stored in table EDP21.

The General Parameters view contains very basic information about the partner, such as partner number, partner type, partner status, and default individual to notify in case an error occurs.

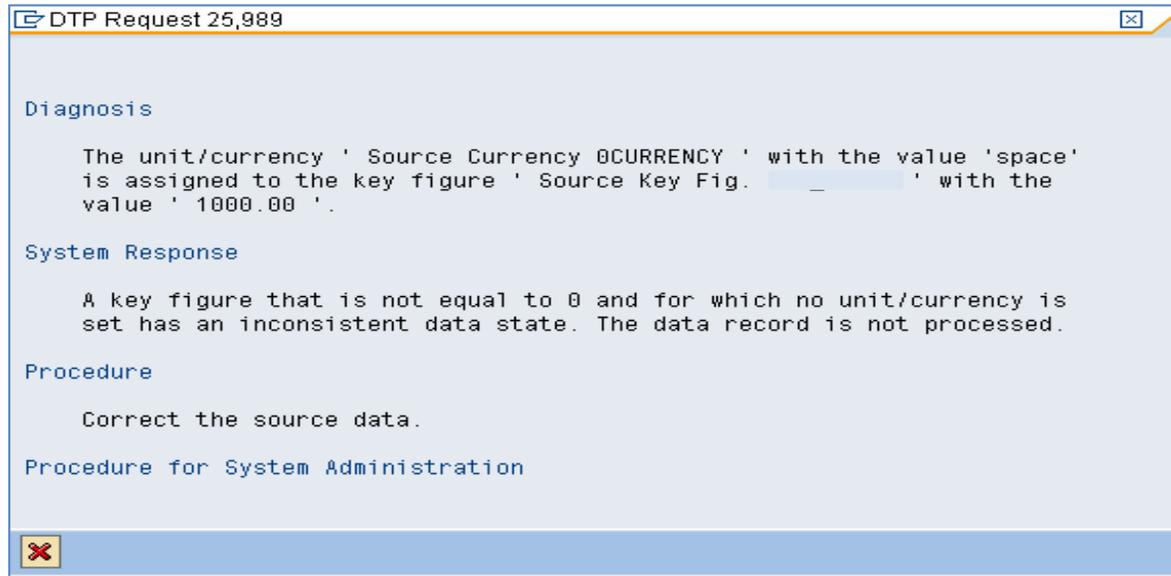
Solution:

Go to WE20 and chose your partner under the correct Partner Type.
 Go to classification tab.
 There will be a field called Partner Status.
 Enter the value as A and save it.



Issue 5

DTP fails with error – “ Unit/Currency has an inconsistent data state”



Analysis :

When you load data using the data transfer process (DTP), the record-related error RSTRAN 312 occurs.

After the upgrade ,the system does not accept currency field to be empty when it is assigned to some keyfigures. For example if the Amount field is not correctly mapped with its corresponding Currency field, this error occurs after upgrade of BW.

Solution :

If the issue occurs for few data loads only, then checking and correcting the mapping for Currency/Unit in the corresponding transformation will resolve the issue. But in case it occurs for many data loads, SAP Note # 1490927 should be implemented to resolve the issue for BW systems 7.0 & 7.1 release.

With BW 7.30, the record check can be activated as a transformation property so that the system has the option to check for the error mentioned above.

Related Content

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