

BW Upgrade to EHP1: Pre Upgrade Activities



Applies to:

SAP BW 3.x & SAP BI Net Weaver 2004s. For more information, visit the [EDW homepage](#).

Summary

This document will help the reader get a consolidated list of activities to be done pre EHP1 Upgrade.

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Author Bio



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Introduction

- For any support pack or Enhancement pack in BW, successful completion of pre upgrade activities is a key factor for successful upgrade. In the subsequent sections we will be discussing the list of activities that needs to be done in SAP BW before the start of any support pack or EHP upgrade.
- These activities needs to be carried out in each of the environments individually
- Once the upgrade is done we need to carry out similar activities post upgrade to make sure there is no major impact Post Upgrade.

List of Pre Upgrade Activities

- The pre Upgrade activities can be broadly divided into below mentioned subcategories.
 - System Patch Related Statistics
 - Object Inconsistency Statistics
 - Query Statistics
 - BW Object Statistics
 - Other General Statistics

System Patch Related Statistics

Current System Patch Level

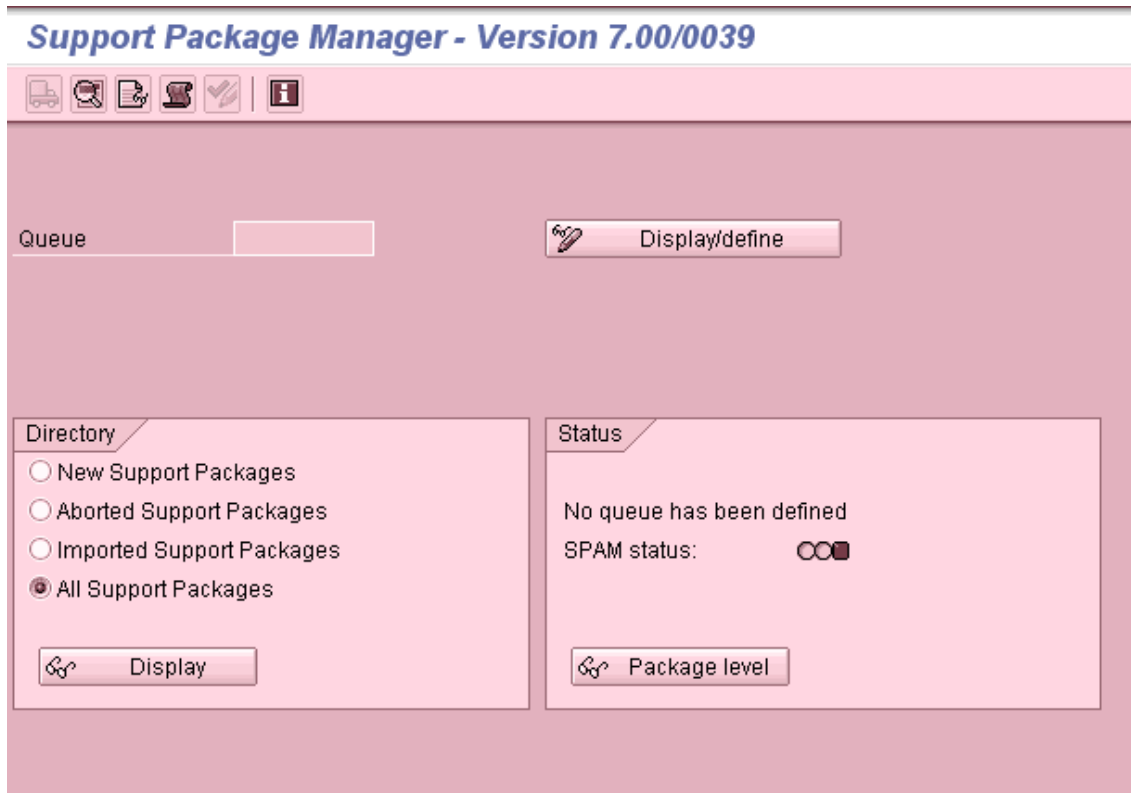
This can be obtained by following the below steps

- Step1: Log on to SAP BW
- Step 2: In toolbar select system◇ Status and capture the details
- Step3: Under SAP system data◇ Component Version, capture the component information.

SAP BW Support Pack Status

This can be obtained by following the below steps

- Step1: Go to TCode SPAM.
- Step2: Select the radio button “All Support Packages” and click on “Display”
- Step3: Capture the statistics



Object Inconsistency Statistics

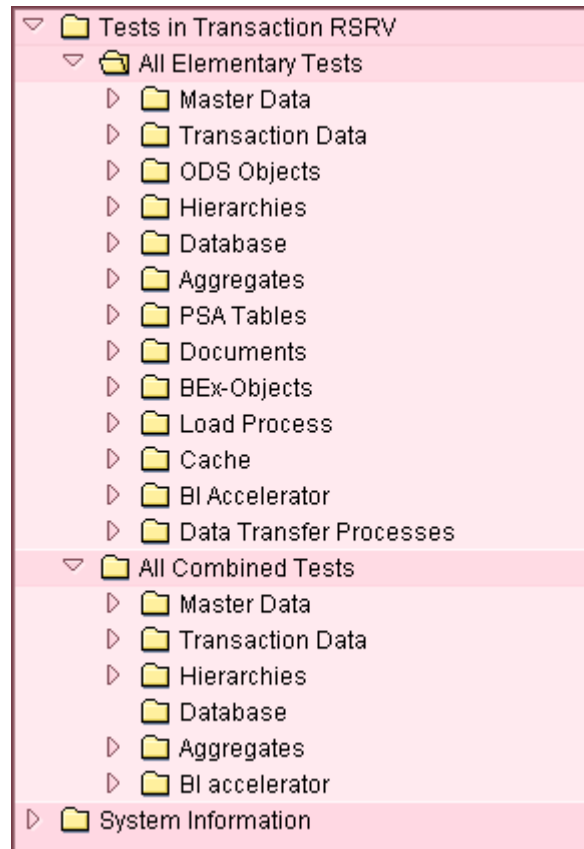
Inactive Objects List

- Get the list of below inactive objects
 - Info Objects
 - Info Cubes
 - DSO
 - MultiProvider
 - Aggregates
 - Transformations
 - Transfer Structures
 - Update Rules
 - Info Spokes
 - DTP
 - Data Sources

RSRV Checks

- Execute the key RSRV checks to ensure all the objects in the system are consistent pre and post upgrade. Primarily following checks needs to be carried out.
 - All Elementary Tests
 - Master Data
 - Transaction Data

- ODS Objects
- Database
- Aggregates
- PSA Tables
- All Combined Tests:
 - Master data
 - Transaction Data
 - Hierarchies
 - BI Accelerator (If Applicable)




- Repair info objects if required using TCode RSD1 → Repair Info Objects

Query Statistics

Analyze RSZ* Tables

- Run the program ANALYZE_RSZ_TABLES

ANALYZE_RSZ_TABLES



Information

The program performs consistency checks in main database tables containing parts of the definitions of queries and other query components. Program is designed for BW system administrators. See SAP note 792779.

Select DB table

- RSRREPDIR
- RSZCOMPIC
- RSZCOMPDIR
- RSZELTXREF
- RSZGLOBV
- RSZELTDIR

Special checks/information

- Errors after translation
- Errors in properties

Select object version

Object Version

Background mode

- All results in a list

Key Queries/Workbooks/Web Templates

- Run a few key of the below to get the output and ensure all the functionality was working Pre upgrade.
 - Queries
 - Workbooks
 - Web templates

Performance

- Capture the performance of few key queries, workbooks and web templates

Roles and Authorization

- Run a few key queries to ensure Roles and Authorizations are working fine.

BW Object Statistics

Pre Statistics

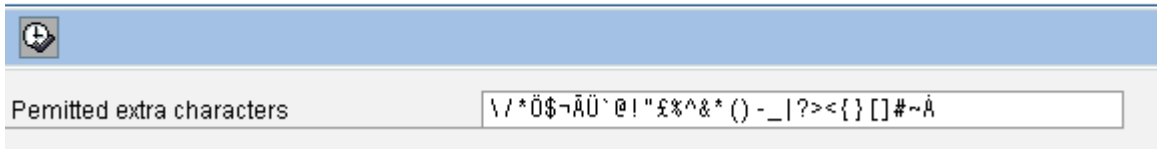
- In order to ensure that all the objects and their settings and properties have not changed post upgrade , we will compares a few of the below objects :
 - Characteristics
 - Key Figures
 - Time
 - Units

- Data Source
- Cube
- DSO
- MultiProvider
- Transformation/Update Rules
- DTP's

Other General Statistics

Check the value in RSKC

Maintenance of the permitted extra characters in BW

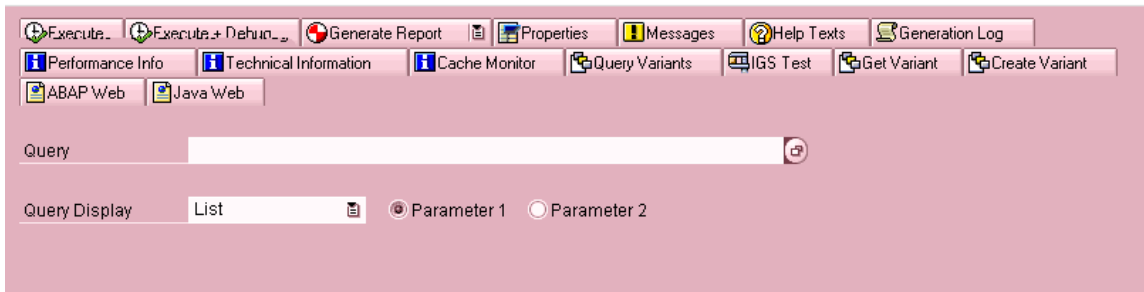


Permitted extra characters: \ / * Ü \$ - Ä Ü ` @ ! " £ % ^ & * () - _ | ? > < { } [] # ~ Ä

Run the IGS Test

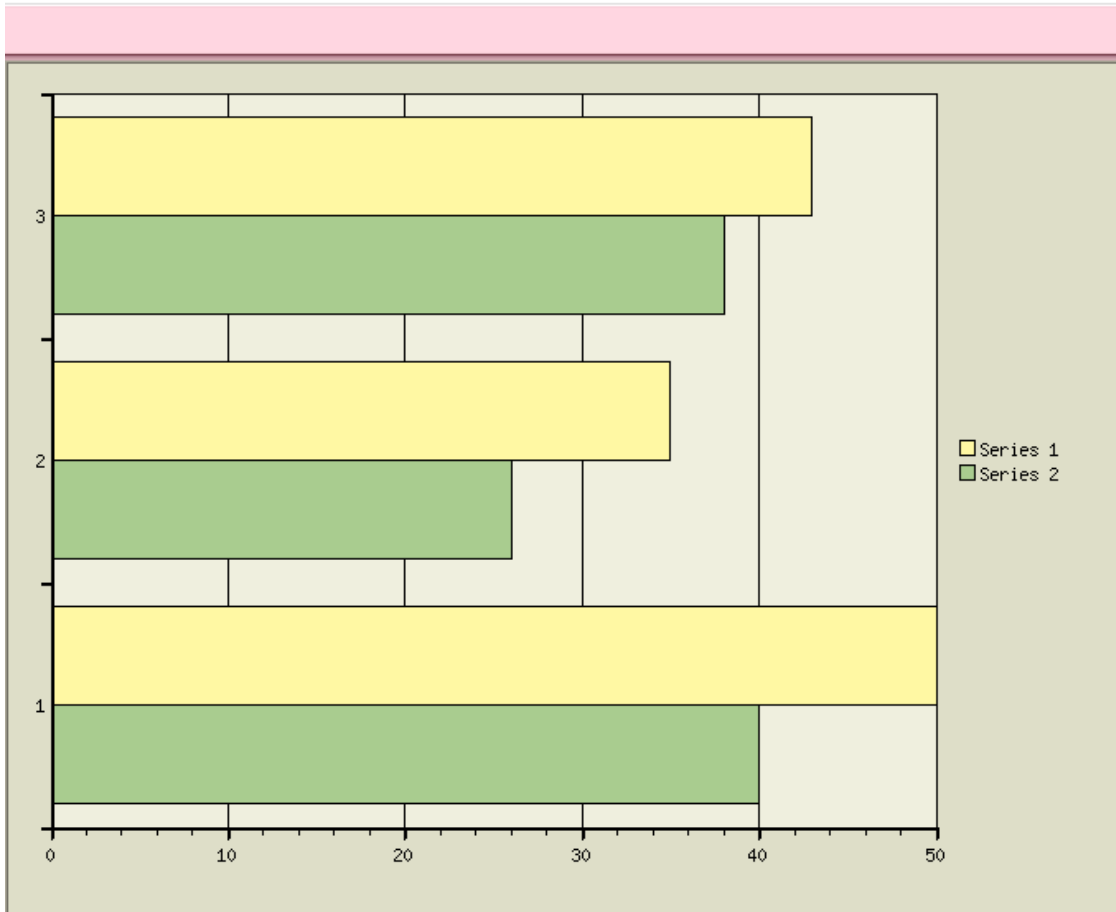
- Go to TCode RSRT
- Click on IGS Test

Query Monitor



Query Monitor interface showing menu options: Execute, Execute + Dehün..., Generate Report, Properties, Messages, Help Texts, Generation Log, Performance Info, Technical Information, Cache Monitor, Query Variants, IGS Test, Get Variant, Create Variant, ABAP Web, Java Web. Below the menu is a 'Query' input field and a 'Query Display' dropdown set to 'List'. Radio buttons for 'Parameter 1' and 'Parameter 2' are also visible.

SAP

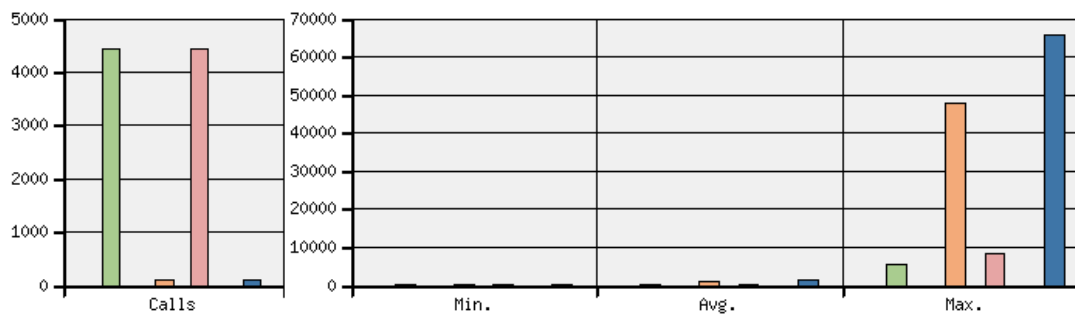


Also in order to check the version of IGS, go to TCode SIGS

Internet Graphics Service: Administration

IGS: RFC Destination

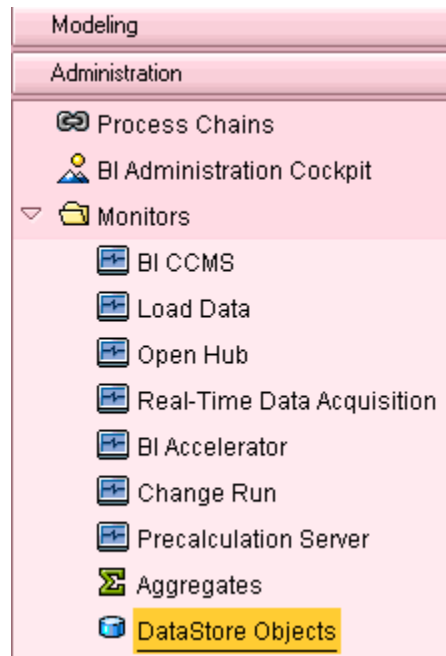
And execute:



Check the basis TCodes

Ensure that all the M Tables are empty

- Go to TCode RSA1 → Administration → Monitors → DataStore Object



DSO Activation Settings

- Check for parallel activation settings on DSO TCODE RSODSO_SETTINGS

Maintenance of Runtime Parameter of DataStore Objects

The screenshot shows the 'Maintenance of Runtime Parameter of DataStore Objects' dialog box. It has a title bar and a main area with the following content:

- Choose Parameter Type
- Note: DataStore-Specific Parameters Control
- Cross-DataStore Parameters
- Cross-DataStore
- DataStore Specific
- DataStore Object: [Empty text field]
- Buttons: Change, Delete, Transport

Key Tables

- Check the entries in Key tables
 - RSBASIDOC
 - TCURR
 - T009B

Source System Connectivity

- Check the connectivity of all the systems connected to the BW System

Other Checks

- In addition to the above mentioned checks, other random checks which can be done are:
 - Analysis Process Designer: By running few APD's before Upgrade
 - RSCRM: Run some RSCRM extracts beofore Upgarde and compare them with Post Upgarde outputs.
 - Information Broadcasting: Broadcast few reports pre upgarde to make sure IB is working before upgrade.
 - Process Chains: Run few key Process chains so that they can be repeated with same data set post upgrade, this gives good initial indication of Data Load Preformance after Upgrade.

Some key Programs

- The below programs can be run if required:
 - RSAU_UPDR_REACTIVATE_ALL
 - RS_PERS_ACTIVATE
 - RS_TRANSTRU_ACTIVATE_ALL
 - RSMD_UPGR_CHECK

Related Content

www.help.sap.com

www.service.sap.com

www.sdn.sap.com

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