WDEBU7 Workshop
Chapter 05

Implementation –
Special Considerations for BI

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SDN users ➔ please note the following

- The Access of any material in the SAP community network and SAP developer network (SDN) is free of charge with your user login.

- If you see any occurrence of “SAP Note” or “SAP Hinweis” and you want to access this Information, you have to logon to the SAP Marketplace (SMP) Note search which needs an additional login to the SMP. The login to SMP is depended to a valid customer contract and the S-user credentials.

- Example for such a link: https://service.sap.com/sap/support/notes/

- You can also add the Note Number directly at the end of the mentioned URL or go to New Note Search
Special Considerations for BI

- Check the details for the Usage of BI together with Oracle that the table space PSAPTEMP is from type *temporary*.

- If you want to use additional table spaces for BI for Fact tables, ODS objects and Dimension tables please check note 552911 and 502989 for details.

- After the initial Setup (or technical upgrade) of SAP NetWeaver 7.0 there is only an initial Configuration Profile available which does not met efficient BI/OLAP requirements. So the consulting of the following notes is a mandatory step before the full and performant usage of the BI applications.
  - **Note 1044441 - Basis parameterization for NW 7.0 BI systems**
  - **Note 192658 - Setting basis parameters for BW Systems**
  - **Note 830576 - Parameter recommendations for Oracle 10g**
  - **Note 1171650 - Automated Oracle DB parameter check**
  - **Note 702728 - Profile parameter for export/import buffer instances**
  - **Note 656060 - OLAP: Cache main memory displacement not functioning**
  - **Note 480710 - Profile parameters for table buffers**

- With the table RSADMIN you can do additional performance settings depending on your selected DB.

General Notes about new basis functions with nw7.0:

- **Note 2467**: Password rules & preventing unauthorized logons (together with 862989)
- **Note 1167901**: Trusted-Trusting instead of destination with password
- **Note 550894**: CC-ADMIN: Setting up a new client
- **Note 720886**: Oracle Database 10g: Integration into the SAP environment
- **Note 807895**: Incorrect logon data after remote login with SM59
- **Note 821875**: Security settings in the message server (Basis 7.00)
- **Note 823941**: SAP Start Service on Unix
- **Note 824554**: ICM and SAP Web Dispatcher Timeout Parameter
- **Note 857904**: Upgrade from Release 6.40 to 7.0: Customer Programs
- **Note 862989**: New password rules as of WAS 7.0/NetWeaver 7.0
- **Note 885580**: Integrated ITS: Configuration Parameters
- **Note 969073**: Dump due to error in lock management
- **Note 928044**: BI lock server
- **Note 1013912**: FAQ: Oracle BW Performance
- **Note 1069225**: NO HW ID RECEIVED BY MSSG SERVER
- **Note 912367**: Composite Note: RSADMIN Parameter
## Which Type of Support Package to use with NetWeaver 7.0

<table>
<thead>
<tr>
<th>WP-PI 6.00 is Integrated in the Basis PI (PIB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>With Usage Type AS (SAP NetWeaver 7.0) the R/3 PI is integrated in ECC 6.0</td>
</tr>
<tr>
<td>XI is now integrated as Usage Type PI in the ABAP and Java Stack of SAP Netweaver 7.0</td>
</tr>
<tr>
<td>Usage Type BI is part of the SAP Netweaver 7.0 Stack</td>
</tr>
<tr>
<td>The SAP PIB is integrated in the Netweaver Stack</td>
</tr>
<tr>
<td>New with Usage Type AS (SAP NetWeaver 7.0) is the integration of the R/3 PI into ECC</td>
</tr>
</tbody>
</table>

### Dependencies of Support Packages

- ECC 6.0
- BI BC
- SEM 6.0
- Sol 4.0
- PI 7.0

### SAP SPAM/SAINT SAP NetWeaver 7.0

- SAP_BI 7.0
- SAP NetWeaver 7.0
- SAP PIB 2005_1_700
- SAP_ABA, 7.00
- SAP BASIS, 7.00
- SAP Kernel 7.0
- SAP KW

### New with Usage Type AS (SAP NetWeaver 7.0)

- XI is now integrated as Usage Type PI in the ABAP and Java Stack of SAP Netweaver 7.0

### WP-PI 6.00 is Integrated in the Basis PI (PIB)

### Additional Prerequisites for the Installation:

**Installation and Master guides:** [http://service.sap.com/instguides](http://service.sap.com/instguides) ➔ nw7.0

**The guarantee the correct Functionality for the usage of the nw7.0 Doublestack you have to make sure, that the following SAP Standard Ports and Protocols are available:**

- 36<nr>, 36<nr> ➔ MessageServer (Abap, Java)
- 39<nr>, 39<nr> ➔ internal MessageServer (Abap, Java)
- 80<nr> ➔ HTTP Port (Abap)
- 82<nr> ➔ HTTPS Port (Abap)
- 81<nr> ➔ HTTP MessageServer Port (Abap)
- 25<nr> ➔ SMTP Port (Abap)
- 5<nr>00 ➔ J2EE HTTP Port (Java), additional Ports up to 5<nr>20
- 5<nr>01 ➔ J2EE HTTPS Port (Abap)

**Where <nr> is the Instance Number of the Abap and the SCS (Java) Instance.**

**After the installation has finished successfully, SAPInst has created the following entries in /etc/services (where XX is set from 00 to 99):**

- sapdpXX = 32XX/tcp
- sapdpXXs = 47XX/tcp
- sapgwXX = 33XX/tcp
- sapgwXXs = 48XX/tcp
Checking Transfer Parameters in General

**SAP BW system**

**flatfile loading**

**transaction RSCUSTV6**

**PI_2004.1**

**PI_BASIS_6xx**

**SAP R/3 system**

**transaction SBIW**

**PI_BASIS_70x**

**transaction SBIW**

Details:
http://help.sap.com/saphelp_nw70ehp1/helpdata/en/51/85d6cf842825469a51b9a666442339/content.htm

Additional settings for correct DB Statistics on Oracle:

- Check for the latest Oracle Bug Fixes on http://service.sap.com/swcenter-3pmain
  you can use the Abap report RSBDCOS0 to run the command opatch lsinventory to find out the status of the applied Oracle Bug Fixes.

- Note 1013912 - FAQ: Oracle BW performance

- Note 1171650 - Automated Oracle DB parameter check

- Note 1367725 - Exact percentages not displayed for BW Oracle statistics
  - BW_ORA_HISTOSIZE_AUTO = X

- Check for the latest brtools

- Note 628590 is valid for Oracle 9i. The Parameter “-f monit” is obsolete with Oracle 10g.

- Make the correct settings for init<SID>.sap:
  - stats_change_threshold = 1 to 2
  - stats_parallel_degree = 2/CPU (max 15 proc.)
  - stats_info_cubes = (RSNSPACE_TAB, XYZ*) (Note 428212)

- For now, it is advisable to delete any existing sp-files created by the installation process, and use only the init<SID>.ora and init<SID>.sap files
  The main reason is that some of the already made settings are removed by the sp-file and there is no real benefit out of the usage for BI, e.g. all values are transferred back to byte values where they specified as M or G values in the init<SID>.ora
Checking Transfer Parameters ODS - InfoCubes

transaction
RSODSO_SETTINGS

transaction
RSBATCH

- SAP Note 916706 - Number of dialog processes for data transfer

BI Background Management, Logs and Tools

- Display Background Job (Server/Work Process/Time)
  - List of Batch Manager Jobs
  - Display Background Processes

- Settings for Parallel Processing
  - Select Process
  - ODSACTIVAT ODSACTIVAT(DataStore Activation)
  - Number of PC Variants with Settings for Parallel Processing: 5
  - Maintenance of Settings
  - Parameter Settings

- Mass Maintenance of All Settings for Parallel Processing

- Deletion of Old Messages and Parameters for the Batch Manager

- Switch Off 4 Popup for Server/Host/Group
Checking Parameters for OLAP cache

**transaction RSCACHE**

![Cache Monitor](image)

- Local Cache Size: 1000 MB
- Global Cache Size: 1110 MB
- Flat File Name: BW\_OLAP\_CACHE
- Comprehensive Flat File Name for AppServer: BW\_OLAP\_CACHE\_SPAN

**transaction RSCUSTV14**

![Change View](image)

- Customizing ID: Business Information Warehouse
- OLAP\_Cache Parameters:
  - Cache Inactive: 32
  - Global Size MB: 0
  - Flat File Name: Cluster Table

```bash
rsdb/esm/buffersize_kb = 131072
rsdb/esm/large_object_size = 16384
rsdb/esm/max_objects = 20000
rsdb/esm/unixex n = 0
```
Checking general Performance Settings

transaction
SPRO ➔ press F5

Some of these settings were introduced in SAP NetWeaver as advanced settings in table RSADMIN.