SAP NetWeaver BW
customizing the NetWeaver BW System

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Please Note that the basis settings are valid for all NetWeaver BW Releases from 7.0x onwards including SAP BW 7.50
After the initial Setup (or technical upgrade) of SAP NetWeaver 7.0x there is only an initial Configuration Profile available which does not meet efficient BW/OLAP requirements. So the consulting of the following notes is a mandatory step before the full and performant usage of the BW applications.

- **Note 1044441 - Basis parameterization for NW 7.0 BW 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.

- **Note 912367 - Composite Note: RSADMIN Parameter**
Optional: create a client copy for BW with transaction SCCL
Check Instance Profile with RZ10 and ST02
Create logical System with BD54
Assign Logical System to Client with SCC4

Change View "Clients": Details

Client: 501 Customizing Client
City: Bangalore
Logical system: H2SCNLNT000
Std currency: EUR
Client role: Customizing

Changes and Transports for Client-Specific Objects:
- Changes without automatic recording
- Automatic recording of changes
- No changes allowed
- Changes with automatic recording, no transports allowed

Cross-Client Object Changes:
- Changes to Repository and cross-client Customizing allowed

Protection: Client Copier and Comparison Tool
- Protection level: D: No restriction

CATT and eCATT Restrictions:
- eCATT and CATT Not Allowed

Restrictions:
- Locked due to client copy
- Protection against SAP upgrade
Check the System Change Option with SE06

<table>
<thead>
<tr>
<th>Software Component</th>
<th>Technical Name</th>
<th>Modifiable</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPM Business Planning and Consolidation</td>
<td>CPM_BOC</td>
<td>R Restricted Modifiability</td>
</tr>
<tr>
<td>Customer Developments</td>
<td>HOME</td>
<td>F Modifiable</td>
</tr>
<tr>
<td>Local Developments (No Automatic Transport)</td>
<td>LOCAL</td>
<td>F Modifiable</td>
</tr>
<tr>
<td>Basic Plug-In (PLBASIS)</td>
<td>PL_BASIS</td>
<td>F Modifiable</td>
</tr>
<tr>
<td>Cross-Application Component</td>
<td>SAP_JBA</td>
<td>R Restricted Modifiability</td>
</tr>
<tr>
<td>SAP Basis Component</td>
<td>SAP_BASIS</td>
<td>R Restricted Modifiability</td>
</tr>
<tr>
<td>SAP NetWeaver DI 7.01</td>
<td>SAP_DW</td>
<td>F Modifiable</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Namespace/Name Range</th>
<th>Prefix</th>
<th>Modifiable</th>
</tr>
</thead>
<tbody>
<tr>
<td>nBCP05/PDF Generated Objects Only</td>
<td>/B05PDF/</td>
<td>X Modifiable</td>
</tr>
<tr>
<td>Generation Namespace for Web Dynpro Components</td>
<td>/BDW/</td>
<td>X Modifiable</td>
</tr>
<tr>
<td>Generated DMC Objects</td>
<td>/GDMC/</td>
<td>X Modifiable</td>
</tr>
<tr>
<td>Generation Namespace Document Flow</td>
<td>/GDMF/</td>
<td>X Modifiable</td>
</tr>
<tr>
<td>Fast Search Generation Namespace</td>
<td>/FSP/</td>
<td>X Modifiable</td>
</tr>
<tr>
<td>namespace role for cons. system</td>
<td>/B28/</td>
<td>X Modifiable</td>
</tr>
<tr>
<td>Namespace for Generated Objects, Print Workflow</td>
<td>/IPR/</td>
<td>X Modifiable</td>
</tr>
<tr>
<td>Generation Namespace, Exchange Infrastructure</td>
<td>/IGS/</td>
<td>X Modifiable</td>
</tr>
</tbody>
</table>
Check the BW Basis Customizing with SPRO → F5 → Business Warehouse
Check the OLAP cache Settings with RSCUSTV14 or RSRCACHE
Check the Transfer Values with SBIW

Change View “Control parameters for data transfer from the source syst

Details:
http://help.sap.com/saphelp_nw70ehp1/helpdata/en/51/85d6cf842825469a51b9a666442339/content.htm
Check the Process Settings with RSODSO_SETTINGS

Maintenance of Runtime Param.

Parameter for Activation:
- Change Process Params.
  - Maximum Package Size: 20,000
  - Maximum Wait Time for Process: 360

- Change Process Params.
  - Maximum Package Size: 20,000
  - Maximum Wait Time for Process: 660

Parameter for Rollback:
- Change Process Params.
  - Maximum Wait Time for Process: 660

Save
Check the Process Settings with `RSODSO_SETTINGS` in BW 7.3x

### System-Wide Setting

**Generic Settings**
- Package Size Activation: 10000
- Wait Time Activation: 300
- Package Size for SID Creation: 20000
- Wait Time for SID Creation: 1800
- Rollback Wait Time: 600

**Export Settings:**
- **MPP**
- **SAP HANA**

**Process Settings**
- **Activation**
  - Parallel Processing
  - Server Group
  - Number of Processes: Batch, None, 6
- **Rollback**
  - Parallel Processing
  - Server Group
  - Number of Processes: Batch, None, 6
- **SID Generation**
  - Parallel Processing
  - Server Group
  - Number of Processes: Batch, None, 6
Check the Background Settings with RSBATCH
Check the transfer parameters in general
includes flatfile and loading from PSA to InfoCubes

Please note that the entries are not vice versa, every system looks for it’s own stored transfer parameter’s.

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

transaction SPRO ➔ press F5

Some of these settings were introduced in SAP NetWeaver as advanced settings in table RSADMIN.
Assign the default logon Group with SMLG
Check Authorization of user BWREMOTE and the myself connection

**RFC Destination CIACLNT003**

<table>
<thead>
<tr>
<th>RFC Destination</th>
<th>Connection Type</th>
<th>Description 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIACLNT003</td>
<td>3</td>
<td>Logical System for system CIA client 003</td>
</tr>
</tbody>
</table>

**Target System Settings**

- **Load Balancing Status**: No
- **Target Host**: it5006.wdf.sap.corp
- **Save to Database as**: Hostname

**Role Assignments**

<table>
<thead>
<tr>
<th>Status</th>
<th>Role</th>
<th>Start Date</th>
<th>End Date</th>
<th>Short Role Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SAP_RO_BCTRA</td>
<td>18.02.2016</td>
<td>31.12.9999</td>
<td>Remote Content Activation of SAPI DataSources from a BW</td>
</tr>
</tbody>
</table>

**Assigned Authorization Profiles**

<table>
<thead>
<tr>
<th>Profile</th>
<th>Type</th>
<th>Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>S_BI-WHM_RFC</td>
<td></td>
<td>Business Information Warehouse, RFC user in the Warehouse</td>
</tr>
</tbody>
</table>
Check InfoObject 0IOBJJNM

Before you start any Transaction for the start of Business Content Installation (also true before starting transaction RSA1 which triggers the technical content Installation) in new installed systems you must take off the InfoObject 0IOBJJNM first.

So go to transaction SNRO (Number Range Object Maintenance) and look for BIM9999991. Change the NR Status from 0 to 2 and save the changes.

After this the following transactions can be called to activate the necessary BC:

- RS_PERS_ACTIVATE ➔ Activating Personalization in BEx
- RSTCT_INST_BIAC ➔ Report RSTCT_ACTIVATEADMINCOCKPIT_NEW
- RSTCO_ADMIN ➔ Installation SAP BW technical content

Note 1543092 - Upgrade of BP_BWADMIN 1.0 to BP_BWADMIN 3.0 (BP BW ADMINISTRATION)
Activate the technical content for BW with RSTCO_ADMIN or RSTCT_INST_BIAC

Please make sure that the InfoObject 0LANGU is activated from technical content (TCT) correctly in advance.

- **Note 984021 - Changes to InfoObject 0LANGU**

- **Note 1746515 - Error while loading the template 0TPII**

Check in advance, that the Web Templates for 3.x also activated, as stated in the Note above.

- **Note 934848 - Collective note: (FAQ) BW Administration Cockpit**

- **Note 1731668 - Skip Installation of BW Administration Cockpit**
Activate BEx History with Transaction RSA1 or RS_PERS_ACTIVATE

Note 1637935 - Short Dump RAISE_EXCEPTION RSO_CONTENT_INSTALL_BATCH X_MESSAGE
Start the Administrator Workbench with RSA1
Activate Data Marts with Transaction RSA1 or RSORBCT
Activate Web Services with SICF

For the new master data maintenance
/default_host/sap/bc/webdynpro/sap/RSDMDM_MD.NEW_APP
/default_host/sap/bc/webdynpro/sap/RSDMDM_MD.MAINTENANCE_APP

Transaction SICF and SICF_INST and SGEN
Activate ABAP WebDynpro in SAP BW 7.40

Note 1969105 - Master data maintenance for InfoObjects does not start
Note 1088717 - Active services for Web Dynpro ABAP in transaction SICF
Checklist for Connecting BW - R/3

define the users as type dialog first to make all logs visible

**Checklist**

- Define user `<SID>_ALEBW` in **BW** and **R/3**
  (Make sure you have the right permissions)  
  R/3, BW ➔ SU01

- Define logical system names (`<SID>CLNT<client>`)  
  R/3, BW ➔ BD54

- Check ALE communication (e.g. SWU3)  
  R/3, BW ➔ SALE

- Check RFC connection (with remote Logon)  
  R/3, BW ➔ SM59

- Define new source system (manually)
  (this is automatically starting a meta data upload)  
  BW ➔ RSA1

- Customizing settings of the **R/3** system
  (Do this before the first Data load starts)  
  R/3, BW ➔ SBIW, RSA1

- Check/transfer of global settings
  (Use this Function as a Simulation to check)  
  R/3, BW ➔ RSA1

- Activate the necessary BC Data sources  
  R/3, BW ➔ SBIW, RSA1

- Perform the meta data upload on the BW system  
  R/3, BW ➔ SBIW, RSA1
Prerequisites for the System Change Option in the production environment BW and ERP must be prepared

- For a successful source system connection, the following settings are required for the system change option during the connection process:
  - SCC4 client maintenance
    - Changes to repository and cross-client customizing allowed
    - Automatic recording of changes
    - CATT and eCATT are allowed
  - SE06 namespaces
    - Customer namespace
    - Customer developments
    - Local developments (no automatic transport)
    - Business Warehouse SAP name space
    - Business Warehouse Customer name space

- When you connect productive R/3 and ERP systems to the productive SAP BW system, note that will have to open the systems during the connection. Afterwards you can close it again. No changes will be done afterwards.

- Authorization's for the connection users (example):
  - (BW) BWREMOTE \(\Rightarrow\) S_BI-WHM_RFC, S_BI-WHM_SPC, S_BI_UPLOAD (optional)
    Role SAP_RO_BTCRA
  - (ERP) ALEERMOTE \(\Rightarrow\) S_BI-WX_RFCA
When connecting SAP Source Systems transfer Exchange Rates/Global Settings
When connecting SAP Source Systems
transfer Exchange Rates/Global Settings

### Transfer exchange rates: Selection

**Source system**
- **System**: T90CLNT090 ID3 / 800

**Exchange Rates**
- **Exchange Rate Type**
- **Changes since**

**Mode**
- Simulation
- Update exchange rates
- Transfer exchange rates again

### Transfer global settings: Selection

**Source system**
- **System**: T90CLNT090 ID3 / 800

**Transfer global table contents**
- Currencies
- Units of measurement
- Fiscal year variants
- Factory calendar

**Mode**
- Simulation
- Update tables
- Rebuild tables
Which BEx Analyzer version is called by RRMX

Transaction RRMX_CUST
call Report RSCPINST with Transaction SE38 and activate the settings
Check the CTS with STMS and setup an transport connection
Check the CTS with STMS and setup an transport connection
Create a Package and assign this to the Transport Connection with SE80
Assign a new BEx Transport Request with RSA1 → Transport Connection
Assign Source Systems for Business Content with RSA1 ➔ Transport Connection
Further Settings related to BW

Maintenance of the permitted extra characters in BW

Permitted extra characters: ALL_CAPITAL
Check Table RSADMINA with SE16 (summarize of customizing) → RSADMIN

### Table RSADMINA Display

<table>
<thead>
<tr>
<th>CUSTOMIZED</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BW USER</td>
<td>BWREMOTE</td>
</tr>
<tr>
<td>DEBUG USER</td>
<td></td>
</tr>
<tr>
<td>BEX REQUEST</td>
<td>NASKG06342</td>
</tr>
<tr>
<td>DBSYSDEPOLCEL</td>
<td></td>
</tr>
<tr>
<td>DBSYSDEPREAD</td>
<td></td>
</tr>
<tr>
<td>HIERREL</td>
<td></td>
</tr>
<tr>
<td>MONFILLED</td>
<td></td>
</tr>
<tr>
<td>IDOCLASTNBR</td>
<td>22</td>
</tr>
<tr>
<td>IBLASTNBR</td>
<td>0</td>
</tr>
<tr>
<td>TSLASTNBR</td>
<td>0</td>
</tr>
<tr>
<td>MONARCHNBR</td>
<td>0</td>
</tr>
<tr>
<td>XPRADONE</td>
<td></td>
</tr>
<tr>
<td>BWINANDT</td>
<td>1</td>
</tr>
<tr>
<td>ODSMAXTASKS</td>
<td>2</td>
</tr>
<tr>
<td>ODSMINPAKSIZE</td>
<td>26900</td>
</tr>
<tr>
<td>ODSACTTIMEOUT</td>
<td>3600</td>
</tr>
<tr>
<td>ENQ PROTON</td>
<td></td>
</tr>
<tr>
<td>ODSSERVICEGROUP</td>
<td></td>
</tr>
<tr>
<td>BWINANDTRFC</td>
<td></td>
</tr>
<tr>
<td>TFBWINANDTRFC</td>
<td></td>
</tr>
<tr>
<td>MDINSRECEIVED</td>
<td></td>
</tr>
<tr>
<td>TREQ RFC DEBT</td>
<td>TREQ_BIA</td>
</tr>
<tr>
<td>PAK MD DEL</td>
<td></td>
</tr>
</tbody>
</table>
Activate background dispatching with RZ21
Assign the default menu with SSM2

### Set Initial Menu for the SAP System

<table>
<thead>
<tr>
<th>Actions to be performed</th>
<th>Date</th>
<th>Time</th>
<th>User</th>
</tr>
</thead>
<tbody>
<tr>
<td>Set Initial menu systemwide</td>
<td>08.34.2006</td>
<td>17:21:02</td>
<td>1000917</td>
</tr>
</tbody>
</table>

Current initial menu:
R300_BW-SAP NetWeaver Business Intelligence
Create default Printer with SPAD

Spool Administration: Output Device (Display)

Device Attributes
- Device Type: TWGAPWIN TWGAPWIN: MS Windows driver via SAPLD
- Device Class: Standard printer
- Authorization Group
- Model
- Location
- Message

Access Method
- Host Spool Access Method: F F: Printing on Front End Computer
- Host printer: p285937
- No Device Selection at Frontend
- No status information available

Output Attributes
- Output Request processing
  - SAP cover page
  - Monitor using monitoring architecture
  - Process requests sequentially
- Copy Counter: Pass Copy Counter to Host Spool System

Additional SAPscript and Smart Form information
- Horizontal move
- Vertical shift

Output attributes for list drives and Smart Forms
- Color printer
- Print mode
- Paper tray
Check transactions STRUSTSSO2/SMICM for the correct web dynpro support

http://scn.sap.com/docs/DOC-7856#section18
Thank you!