Useful Transactions for BWA

Overview

RSDDBIAMON2 – BWA Monitor (main entry point to do a system check)
RSDDV or RSDDTPS – Explorer Index Creation
RSA1 – Cube Workbench – creating editing
TREXADMIN – TREX Admin Tool
RSRV – Checks
RSRT – Query Monitor
SE38 -- run program RSR_QPROV_CHECK
SM37 – check job logs of a particular user
SM59 – Check RFC connections to the BWA (TCP/IP)

Technical Operations Manual BWA 7.20

RSDDBIAMON2

Selecting (Menu) BIA Checks -> BIA Availability is a quick way to check if all the servers are available and checks the connectivity via RFC. The result of the check will be listed on the right-hand side under "BIA Action Messages"

Selecting (Menu) BIA Checks -> System Check does a more thorough check and tests the system throughout. The user will be presented with a list of checks and a status flag, which should all be green. If not, there should be details on the next action to take.
Selecting (Menu) **BIA Accelerator -> BIA Load Monitor Activate** loads a separate window which will show live transaction information and load happening on the different BWA blades.

Further useful selection is a user specific performance trace under the menu **Performance Trace -> Start Trace Recording**, which allows to record the execution of the query including optional Execution plan information which is helpful for development to find out where a potential bottleneck might be delaying returning a result to Explorer.

Note: click the **BIA Load Monitor Deactivate** button to close the dialog box.
From the menu **Goto -> BIA Index Maintenance** takes us into the next section about RSDDV and RSDDTPS.

**RSDDV or RSDDTPS**

**RSDDV** is actually not used for Explorer and provides an interface for normal BIA Indexed InfoCubes which are not Explorer enabled. But from this same transaction you can click the **Polestar** wand button to call the transaction **RSDDTPS** to manage Explorer enabled BIA Indices.
RSDDTPS is the main entry point for indexing all sorts of datasources: InfoCube, MultiProvider (PartProvider/Snapshot), Query (Snapshot)

Explorer Object Selection

Explorer Object Selection | Tech. Name | Explorer Status
--- | --- | ---
SAP Demo | OD_SAP_DEMO... | 
  SAP Demo SEM Business Plan | OD_SEM_BPS | 
  SAP Demo Sales and Distribution | OD_SD | 
    Test Sanchali | TEST_SAN | 
    SAP DemoCube | OD_DECU | 
    gp_DemoCube | GP_DEMOCUBE | 
  SAP Demo Sales and Distribution | OD_SD_GEN | 
    SAP Demo Sales and Distribution | OD_SD_C03 | 

Having the **Explorer Status** showing a green light will list the Index as datasource in Manage Spaces of the Explorer User Interface.

For more details on all the administration of Explorer Information Spaces, please consult the BWA Technical Guide which also lists limitations and options.

**TREXADMIN**

This is a very technical low-level interface for BWA Experts and Administrators. Select **Program->Get BIA RFC Destination** to automatically fill the right connection into the input field "Connection to RFC Server" and click the Execute button. This is what you will see:

A quite useful tab to retrieve the version of BWA is the **Summary** tab:

And on the trace tab all the required logs can be viewed online or downloaded to your desktop by clicking Export file content. It provides the option to download the last 500Kb of the log, as these logfiles can become quite large and if you just finished a workflow or just experienced the error, it is likely you only require the last 500Kb of the trace. Doubleclick on the tracefile will open a window which shows the trace.
Further trace options "Trace level", "Performance Trace", "Python trace" and "Sys./Appl. log" are available by the other buttons:

<table>
<thead>
<tr>
<th>Host</th>
<th>File</th>
</tr>
</thead>
<tbody>
<tr>
<td>Id8478</td>
<td>available.log</td>
</tr>
<tr>
<td>Id8478</td>
<td>TrexAlertServerHistory_Id8478.trc</td>
</tr>
<tr>
<td>Id8478</td>
<td>TrexRfcCheckRepairHistory.trc</td>
</tr>
<tr>
<td>Id8478</td>
<td>TrexNameServer_History.trc</td>
</tr>
</tbody>
</table>

RSRV

This transaction provides a list of comprehensive checks to execute, like:

- Compare data in BI tables and BIA indexes
- Check sums of keyfigures of BIA queries
- Compare sums of keyfigures of BIA queries with database
- Existence of indexes for DB tables
- Consistency Check with Random Queries
- Verification of the entries in the BIA hierarchy buffer
- Check, if there are negative or greater DIMIDs, SIDs within the BIA then on the database.
- etc

Select your tests in the left-hand-side window, which are then moved to the right. Selecting "Execute" from the toolbar will run this list of tests, except for tests which require input parameters like the one below:
For more information on the individual checks please follow this link.

**RSRT**

The query monitor tests, checks, and manages BI queries. You use the query monitor to test or regenerate queries and query views, and to check or change query properties. With the query monitor you have the option of displaying technical information about queries. Furthermore, the query monitor allows entry into the cache monitor.

For more information please follow this link.

**SE38 program RSR_QPROV_CHECK**

To be able to index the snapshot of a query result in the BWA, you first need to activate the query. To do this, call ABAP Editor (transaction SE38) and run program **RSR_QPROV_CHECK** with the name of the query in question. The program checks the query to see if it meets any of the conditions listed above. If none of these conditions apply, the system sets the query property Activated for SAP BusinessObjects Explorer. The query is then visible in the tree of BW objects for making indexing settings (transaction RSDTPS). The query result is given the read mode Query to Read All Data at Once (A), which means that the free characteristics are also used in GROUP BY.

Here a 3 step example, to start click "execute" marked yellow:
SM37

To check job logs of a particular user, which is also available via the RSDDTPS transaction.
SM59

Check RFC connections to the BWA (TCP/IP), clicking the Test-Connection will send packets over TCP-IP to the connected BWA.

Configuration of RFC Connections

<table>
<thead>
<tr>
<th>RFC Connections</th>
<th>Type</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABAP Connections</td>
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<tr>
<td>HTTP Connections to External Server</td>
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<tr>
<td></td>
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<tr>
<td>TCP/IP connections</td>
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</tr>
<tr>
<td>Connections via ABAP Driver</td>
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<td></td>
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</table>