



IBM Tivoli OMEGAMON XE for IMS on z/OS V410

***Response Time Analysis data missing from
Tivoli Enterprise Portal workspace***

Tivoli. software



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Updated October 1, 2009

This presentation describes a problem with Version 410 of OMEGAMON[®] XE for IMS[™] in which the two product-provided workspaces dealing with Response Time Analysis (RTA) data were blank. It also provides a quick workaround for the issue.

RTA data missing from Tivoli Enterprise Portal workspace

- Customers reported empty RTA workspaces in Version 410
- Additional product customization was necessary to port Response Time Analysis data
- Resolved in Version 420 by expanding the capability of the workspaces involved

RTA data missing from Tivoli Enterprise Portal workspace.

After Version 410 of OMEGAMON XE for IMS on z/OS® was released in late 2007, it was discovered that the two new RTA workspaces had no data in some customer environments. Some research showed that the data necessary to populate these workspaces was only available if some default product settings were customized in the Global member. This customization is described in more detail in the User's Guide.

Because work was already underway for Version 420, the new release was updated with sufficient logic to use the existing data. However, Version 410 still required customers to do a bit of work.

Example of empty RTA workspace

The screenshot displays the Tivoli Enterprise Portal interface. The top navigation bar includes 'Welcome SYSADMIN', 'Tivoli Enterprise Portal', and a 'Log out' button. Below the navigation bar is a menu with 'File', 'Edit', 'View', and 'Help'. The main workspace is divided into three sections:

- Left Panel (Navigation Tree):** Lists various system components under the 'Physical' view, including 'MS Fast Path System', 'MS Fast Path VSO Data Spaces', 'MS HALDB Summary', 'MS IRLM Information', 'MS Logical Terminals', 'MS MGSeries Status', 'MS Multiple Systems Coupling Facility (MSC)', 'MS OSAM BP Statistics', 'MS OSAM Subpool Statistics', 'MS OTMA Status', 'MS Pools Display', 'MS Program Scheduling Blocks', 'MS Recovery Control Datasets', 'MS RTA Group Summary', 'MS RTA Item Summary', and 'MS Startup Parameters'.
- Center Panel (Graph):** Titled 'RTA Group - Queuing Time', it shows a 3D bar chart with a Y-axis labeled 'secs' ranging from 0 to 100. The X-axis is labeled 'RTA Groups'. The legend indicates three data series: 'Input Queue Time (Secs.)' (yellow), 'Output Queue Time (Secs.)' (blue), and 'Program Input Queue Time (Secs.)' (red). The graph area is currently empty.
- Bottom Panel (Table):** Titled 'Response Time Analysis - Group Summary', it contains a table with the following columns: 'RTA Group Name', 'RTA Group Number', 'Input Queue Time (Secs.)', 'Program Input Queue Time (Secs.)', 'Processing Time (Secs.)', 'R0 Time (Secs.)', 'Output Queue Time (Secs.)', 'R1 Time (Secs.)', and 'Timestamp'. The table is currently empty.

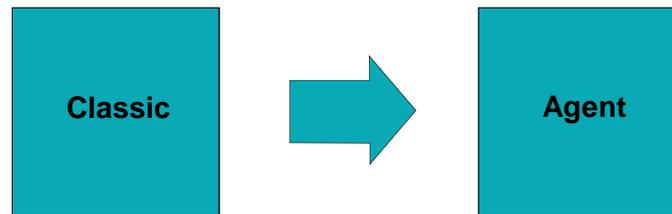
At the bottom of the screenshot, a red banner contains the text: 'Response Time Analysis data missing from Tivoli Enterprise Portal workspace © 2009 IBM Corporation'.

Example of empty RTA workspace.

As you can see in this example of an RTA workspace, data is missing from all views.

How RTA data is collected

- OM/IMS Classic started task acts as the collector
- Agent started task automatically detects the existence of Classic started task and seeks input



How RTA data is collected.

As the XE interface to the product has matured, more data collection activity has been reproduced within the Agent started task. For customers who still prefer the 3270-based interface known as Classic or CUA, the Classic started task continues to function as the data collector. Currently, one of the very few collection functions that has not been copied to the Agent started task is for RTA data. That functionality still remains solely in the Classic task. Therefore, to collect RTA data and present it within Tivoli Enterprise Portal, the IMS system being monitored must have a Classic started task running with RTA data collection enabled. The Agent started task periodically scans the system for Classic data that might be available for a configured IMS system. It then adds that data to what has already been provided to the portal client.

Customization of Global member required

- Default Global member in RKANSAMU(KOIGBLxx) only defines CLASS based groups
- Version 410 RTA workspace logic requires PSB or TRAN based groups
- Global member does not allow TRAN=* or PSB=*
- Solution: define multiple groups such as
\$OIGROUP ID,TRAN=A*,GROUPS=10
\$OIGROUP ID,TRAN=B*,GROUPS=10
\$OIGROUP ID,TRAN=C*,GROUPS=10

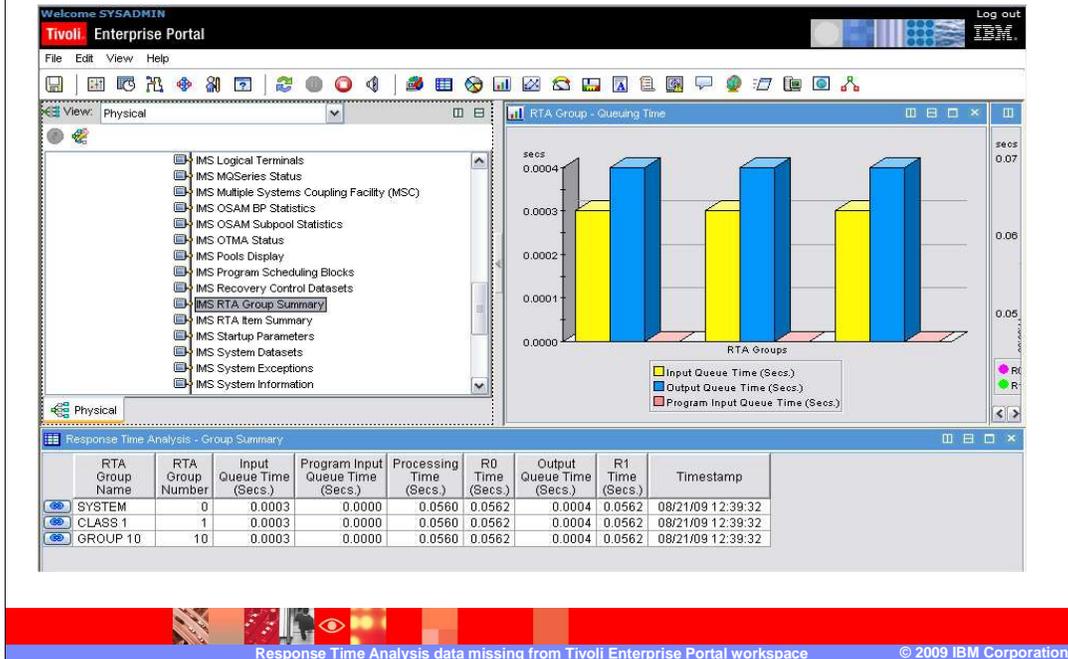
Customization of Global member required.

OMEGAMON for IMS has always split up response time analysis data into user-defined groups. These groups can be defined in a number of ways, including IMS transaction name, PSB name, or IMS Class. By default, this Global member defines Group 1 as all IMS Class 1 transactions, Group 2 as IMS Class 2 transactions, and so on. All of the default groups are based on the IMS Class with which a transaction is defined.

Version 410 of the XE interface requires RTA data that has been collected by a Transaction or PSB defined group. Therefore, some Global member customization is required. Instructions for this customization are included in the User's Guide, but be aware that you must add some Groups that are defined with either the TRAN or PSB keywords instead of the default CLASS based examples. Currently a completely generic group like TRAN=* or PSB=* is not recognized, but you can create groups such as TRAN=A* and TRAN=B* as an alternative. Create all 26 letters of the alphabet to cover all of the IMS transaction name prefixes possible.

After updating the Global member, you must assemble and link it into your RKANMODU load library using JCL found in RKANSAMU. You must then recycle your Classic started task.

Example of RTA workspace with correct Global



Example of RTA workspace with correct Global.

Shortly after the Global member is assembled and linked into place, your RTA workspaces should begin to reflect the newly available data.

Notes

- Classic started task collects RTA data only on IMS write to OLDS, so low-throughput systems might take a while to populate a workspace
- Technote 1396840 describes new RTA workspaces
- Technote 1389976 describes necessary updates to Global for V410
- V420 workspaces updated to use even CLASS based groups as input

Notes.

Because OMEGAMON for IMS cannot see the IMS input data until the log data is written (called an OLDS write), you might have to wait a while until IMS writes that data. On low-use systems you can force such a write by using the IMS /CHE command to cause an IMS checkpoint to be written. To prevent any unexpected consequences, always confer with your IMS systems programmer before attempting to issue any IMS commands.

Two Technotes provide additional information about this issue: Technote 1396840 describes the new RTA workspaces and Technote 1389976 describes how to update your Version 410 Global member appropriately. Note that the logic in the Version 420 workspaces has been updated to use even the default CLASS based groups to provide the RTA workspaces with the data they need.

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