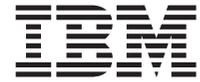


IBM Tivoli Composite Application Manager for WebSphere Managing Server 6.1.0.1 Interim Fix 0002 What's new document



Overview

The following information provides a list of the changes found in the ITCAM for WebSphere Managing Server 6.1.0.1 Interim Fix 0002 (6.1.0.1-TIV-ITCAMfWAS_SVR-IF0002) release.

Server Statistics Overview page

This interim fix release adds a new column, Volume Delta per Second, on the Server Statistics Overview page, see **Figure 1**.

The Volume Delta per Second value displays as an integer. ITCAM calculates the value using the following formula:

(The value of Volume Delta) / (The value of Auto Refresh)

The rules for rounding are as follows: If the fractional portion of the value is 0.5 or greater, round the value to the next highest integer. If the fractional portion of the value is less than 0.5, round the value to the next lowest integer.

SERVER STATISTICS OVERVIEW
 The Server Statistics Overview page provides application server-level statistics for quick assessment of server activity warning threshold by clicking Table Configuration.

SERVER SELECTION

Group: Server:

SERVER DETAIL (Time until next Refresh (sec.): 37)

1 - 1 of 1 Results

Name	Status	Platform	Volume Δ	Volume Δ per Second	JVM/Region CPU Δ (ms)	Total Volume	JVM/Region CPU%
dev-Inx-w39Node02Cell dev-Inx-w39Node02 server1(default) 26617 (L1)	Available	x86Linux	0	0	40	5	0.00

Figure 1. Server Statistics Overview page

Configure Volume Delta per Second in the Server Statistics Configuration page, see **Figure 2**.

SERVER STATISTICS CONFIGURATION		
<input checked="" type="checkbox"/>	Volume Δ	None request(s)
<input checked="" type="checkbox"/>	Total Volume	None request(s)
<input checked="" type="checkbox"/>	Group Name	
<input checked="" type="checkbox"/>	Uptime	None hour(s)
<input type="checkbox"/>	Start Time	
<input type="checkbox"/>	Paging Rate	None KB/s
<input checked="" type="checkbox"/>	Total CPU%	None %
<input checked="" type="checkbox"/>	Platform	
<input type="checkbox"/>	Live Sessions	None
<input type="checkbox"/>	Platform CPU Δ	None ms
<input type="checkbox"/>	Application Server Platform	
<input checked="" type="checkbox"/>	Volume Δ per Second	None request(s)/s

Select All > < Deselect All

Figure 2. Server Statistics Configuration page

Trap and Alert Management

This interim fix release adds several functions to the Trap and Alert Management feature.

The following is a summary of new additions:

- Added a Request Frequency target type for the Server Resource Trap type
- Added support for \geq and \leq operators as a threshold
- Added Time Interval support with the Trap Condition
- Provide Data Collector process ID information on the Trap Action History page

This release adds the Request Frequency target type for the Server Resource Trap type. See **Figure 3**.

STEP 1 - TRAP TYPE SELECTION

On this page, select your trap type, and the target type. Click Next to define the target type.

TRAP TYPE

Trap Type Server Resource Trap Application Trap

Target Type ----- CPU ----- ▼

- CPU -----
- Average Platform CPU % Usage
- Average JVM CPU % Usage
- Memory -----
- JVM Heap Size
- Average JVM Heap Size After Garbage Collection
- Application Capacity -----
- Request Frequency
- Number of Sessions

Added this trap back.

Figure 3. Trap Type Selection page

Configuration for the Request Frequency target type includes a threshold that supports the following operators:

- >=
- <=

See **Figure 4**.

If you select the <= operator while creating or modifying the Request Frequency target type, then the following happens:

1. The trap action does not trigger if no transactions are received by the Publish Server after activating the trap.
2. Trap threshold checking begins after the first transaction received by the Publish Server activates the trap.

STEP 2 -- DEFINE TRAP
 Defining a trap changes based on the trap type you choose in Step 1. Enter content that, when found in the request, will trigger the trap. The threshold is a level set that will cause an alert when the system count exceeds the threshold you set.

TRAP TYPE	
Trap Type	Server Resource Trap
Target Type	Request Frequency

TRAP DEFINITION	
Threshold	>= [] (per minute)
	<input data-bbox="365 682 568 714" type="button" value=" < Back "/> <input data-bbox="576 682 779 714" type="button" value=" Cancel "/> <input data-bbox="787 682 990 714" type="button" value=" Next > "/>

Support both ">=" and "<=" operators.

Figure 4. Define Trap page

This interim fix release also adds support for configuring the Time Interval in the Trap Alert Settings page. See **Figure 5**. You cannot configure the Time Interval setting for a Misbehaving Transaction Trap since the conditions for the Misbehaving Transaction trap are not editable.

TRAP ALERT SETTINGS	
Condition	Number of time(s) the Trap Definition occurs []
Time Interval	Within the following amount of time: [] <input data-bbox="852 1207 1015 1239" type="button" value=" Minutes "/>
Severity	Low <input data-bbox="446 1270 479 1302" type="button" value=" v "/>
Alert Action(s)	<input type="checkbox"/> Send Email (comma separated) [] <input data-bbox="852 1207 1015 1239" type="button" value=" Minutes "/> <input type="checkbox"/> Send SNMP Message
Data Action(s)	<input type="checkbox"/> Collect Component/Method Trace

Figure 5. Trap Alert Settings page

Although the smallest available time interval unit is milliseconds, certain trap types might not be able to use milliseconds as the time unit. Use **Figure 6** below as a guideline for setting the Time Interval value with default Managing Server and Data Collector settings.

Trap Type	Target Type	Minimum Time Interval
Server Resource Trap	Average Platform CPU % Usage	5(min)
	Average JVM CPU % Usage	5(min)
	JVM Heap Size	1(min)
	Average JVM Heap Size After GC	1(min)
	Request Frequency	1(min)
	Number of Sessions	1(min)
Application Trap	Occurrence	1(ms)
	CPU Time	1(ms)
	Wait Time	1(ms)
	Resident Time -- In-Flight	1(ms)
	Resident Time -- Completely	1(ms)
	Resident Time -- Misbehaving Transaction	1(ms)
	Uncaught Exceptions	1(ms)
	Lock Acquisition Time -- In-Flight	1(ms)
Lock Acquisition Time -- Completed	1(ms)	

Figure 6. Time Interval value table

This interim fix release adds the Data Collector process ID information to the Trap Action History page. See Figure 7.

TRAP ACTION HISTORY
 The Trap Action History provides a record of traps that met the set conditions. View the trap properties by clicking the Trap Name, or view the action by clicking the Action Taken. Use the Filters to filter the traps by trap name, server, or group.

TRAP ACTION HISTORY [Show Filters](#) 20 per Page

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Action Date/Time <input type="checkbox"/>	Trap Name	Server	Severity	Action Taken	Delete [Select All Deselect All]
Mar 20, 2007 6:51:46 PM	heapdump with GC	dev-lnx-w39Node02Cell.dev-lnx-w39Node02.server1 (default) 26617 — DC's process id	Low	Send SNMP Message	<input type="checkbox"/>
Mar 20, 2007 6:51:46 PM	heapdump with GC	dev-lnx-w39Node02Cell.dev-lnx-w39Node02.server1 (default).26617	Low	Heap Dump	<input type="checkbox"/>

Figure 7. Trap Action History page

Performance Analysis and Reporting

This interim fix release adds the new option Time Series in Minutes to the Graphing Option settings on the Date Range Settings page in creating a report or modifying a report. See Figure 8. This is an option available to all types of reports.

DATE RANGE SETTINGS
 Select the date range, advanced filters or graphing option for your report. Each parameter restricts the data in your results displaying only the most useful information.

DATE RANGE
 Select a preset date range or enter a custom start date and end date.

Preset or

Start Date End Date

ADVANCED FILTERING (Optional)
 Define your data set with accuracy using these filters.

Filters HOUR DAY OF THE WEEK DAY OF THE MONTH MONTH

GRAPHING OPTION
 Select an option to represent your data set on your graph's x-axis scale.

X-axis

Figure 8. Date Range Settings page

On the Trend Report page, if the date range selected is <=60 (minutes), both the graph and data table will display. If the date range selected is >60 (minutes), only the data table will display.

First edition

Changes found in the ITCAM for WebSphere Managing Server 6.1.0.1 Interim Fix 0002 release.

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