

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:

$$(\text{The value of Volume Delta}) / (\text{The value of Auto Refresh})$$

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.

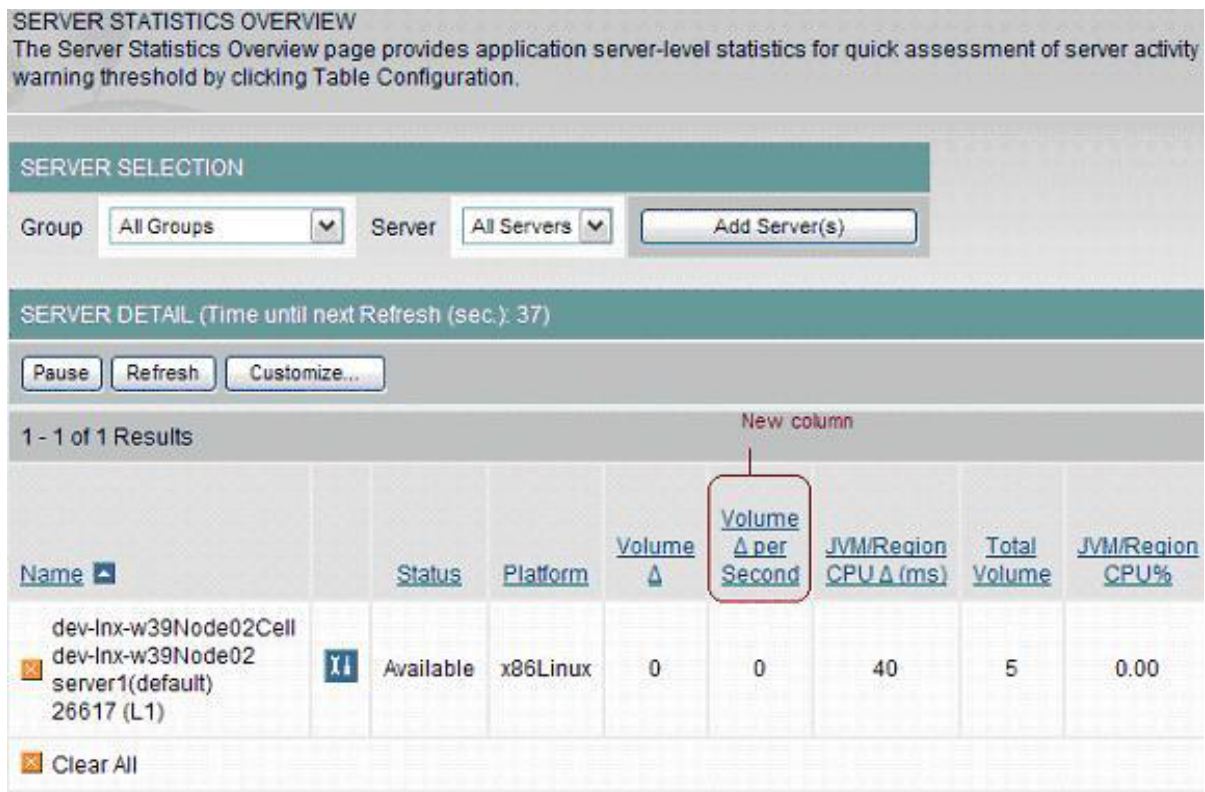


Figure 1. Server Statistics Overview page

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
<div> Select All > < Deselect All </div>		

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

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	<div> <div> <div>>=</div> <div>▼</div> </div> <input type="text"/> <div>(per minute)</div> </div> <div> <div>>=</div> <div><=</div> </div>
<div> <div>< Back</div> <div>Cancel</div> <div>Next ></div> </div>	

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 <input type="text"/>
Time Interval	Within the following amount of time: <input type="text"/> <div> <div>Minutes</div> <div>▼</div> </div> <div> <div>Milliseconds</div> <div>Seconds</div> <div>Minutes</div> <div>Hours</div> <div>Days</div> <div>Weeks</div> </div>
Severity	Low ▼
Alert Action(s)	<input type="checkbox"/> Send Email (comma separated) <input type="text"/> <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.					
<div> <div>TRAP ACTION HISTORY</div> <div> Show Filters 20 per Page Refresh </div> </div>					
1 to 6 of 6 1					
Action Date/Time	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
Select a Preset Date
or

Start Date
Mar
13
2007
00:00
End Date
Mar
20
2007
00:00

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

Aggregate Hour of the Day
Time Series in Minutes
Time Series in Hour
Time Series in Day

New option

Cancel
View Report
Next >

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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