

# Turning on MQ queue statistics historical collection at the Tivoli Enterprise Portal

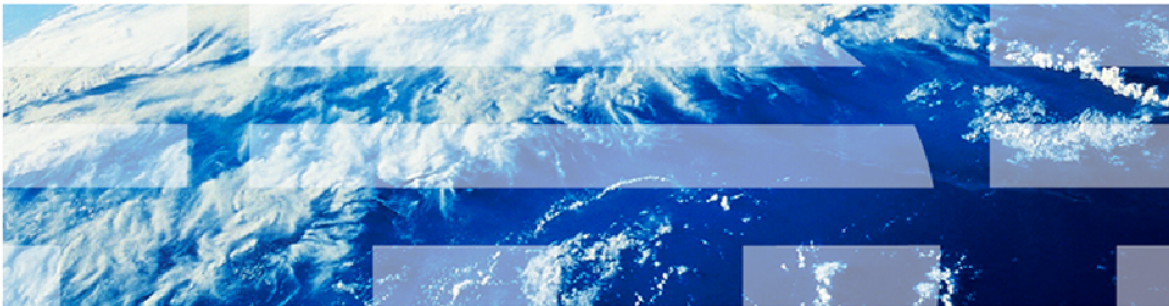
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Tivoli

IBM

IBM Tivoli Composite Application Manager for Applications V6.2.4

Turning on MQ queue statistics historical collection at the Tivoli Enterprise Portal



This is a self-running demonstration that shows you how to complete a task.  
Controls are available at the bottom of the screen.

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## Turning on MQ queue statistics historical collection at the Tivoli Enterprise Portal

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### Objectives

When you complete this module, you can perform these tasks:

- Start and enable MQ queue statistics
- Display historical queue statistics

# Turning on MQ queue statistics historical collection at the Tivoli Enterprise Portal

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Click the **Historical Collection Configuration** icon.

Start on the Queue Statistics for Monitored Queues with Messages window.

Queue Name	Queue Usage	Definition Type	Total Counts	Input Opens	Output Opens	Current Excludes	Current Depth	Highest Depth	High Depth Threshold	% Full	Is Incl Exceeded	Cur Status	Int Status	Cur Defn	Trigger Control	Trigger Type	Trigger Data	Trigger Priority	Creation Date & Time	Storage Class	Page Defn ID	Just P...
SYSTEM.AUTH.CATA...	Normal	Predefined	2	1	1	%	71	0	50	0.0	No	Err...	Err...	Yes	No	First	-	0	02/18/07 15:39:26			
SYSTEM.CHN.NELS...	Normal	Predefined	0	0	0	%	7	0	50	0.0	No	Err...	Err...	Yes	No	First	-	0	02/18/07 15:39:21			
SYSTEM.CHN.SI...	Normal	Predefined	2	1	1	%	1	1	11	11	No	Err...	Err...	Yes	No	First	-	0	02/18/07 15:39:21			
SYSTEM.CHN.STE...	Sync	Predefined	2	1	1	%	2	0	50	0.0	No	Err...	Err...	Enabled	Yes	First	-	0	02/18/07 15:39:21			

OMGR1:MQ

Pub T: Thu 04/02/2008 14:05 PM Server Avail

Queue Statistics for Monitored Queues with Messages - IBM-ET9CCDE7AA8 - SYSADMIN - ADMIN MODE

# Turning on MQ queue statistics historical collection at the Tivoli Enterprise Portal

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The screenshot displays the Tivoli Enterprise Portal interface. A window titled "Queue Statistics for Monitored Queues with Messages - IBM-DF9CCDE7AA8 - SYSADMIN - \*ADMIN MODE\*" is open. A "History Collection Configuration" dialog box is overlaid on the main window. A yellow callout box points to the "CCC Logs" option in the "Select a product" dropdown menu, with the text: "The History Collection Configuration window opens. To access the menu of products, click CCC Logs." The dialog box contains several sections: "Select a product" (with "CCC Logs" selected), "Select a product group" (with "Queue Statistics" selected), "Configuration Controls" (with "Collection interval" set to "15 minutes", "Collection interval unit" set to "min", and "Warehouse interval" set to "1 day"), "Summarization" (with "Monthly" selected), and "Pruning" (with "Monthly" selected). The dialog box also has buttons for "Configure Groups", "Unconfigure Groups", "Show Default Licence", "Start Collection", "Stop Collection", "Refresh Status", "Close", and "OK".

Queue Statistics Summary

Number of Queues

24

22

History Collection Configuration

Select a product

CCC Logs

Select a product group

Queue Statistics

The History Collection Configuration window opens. To access the menu of products, click CCC Logs.

Configuration Controls

Collection interval: 15 minutes

Collection interval unit: min

Warehouse interval: 1 day

Summarization

Monthly

Pruning

Monthly

Configure Groups Unconfigure Groups Show Default Licence Start Collection Stop Collection Refresh Status Close OK

Queue Name	Queue Usage	Definition Type	Collection Interval
SYSTEM.AUTHDATA	Normal	Predefined	15 minutes
SYSTEM.CHANNELS	Normal	Predefined	15 minutes
SYSTEM.CHANNELS	Normal	Predefined	15 minutes
SYSTEM.CHANNELS	Normal	Predefined	15 minutes

OMGR1:MQ

Thu 04/03/2009 14:05 PM Server Available Queue Statistics for Monitored Queues with Messages - IBM-DF9CCDE7AA8 - SYSADMIN - \*ADMIN MODE\*

# Turning on MQ queue statistics historical collection at the Tivoli Enterprise Portal

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The screenshot displays the Tivoli Enterprise Portal interface. A 'History Collection Configuration' dialog box is open, allowing users to configure data collection for various products. A callout bubble highlights the product selection list, indicating that users should scroll to 'WebSphere MQ'. The dialog box includes the following sections:

- Select a product:** A list of products including COC Logs, SCC Logs, IBM 311 Active Directory replication, IBM 311 Active Directory replication, IBM 311 Active Directory replication, Agent Operation Log, EEL\_CompactLog, IBM 311, and TMGRRLST.
- Configuration Controls:**
  - Collection interval: 15 minutes
  - Collection interval unit: min
  - Warehouse interval: 1 day
- Summarization:**
  - Weekly
  - Daily
  - Hourly
- Pruning:**
  - Weekly
  - Monthly
  - Quarterly
  - Half-yearly
  - Yearly

At the bottom of the dialog box, there are buttons for 'Configure Groups', 'Unconfigure Groups', 'Show Default Licence', 'Start Collection', 'Stop Collection', 'Refresh Status', 'Close', and 'OK'.

# Turning on MQ queue statistics historical collection at the Tivoli Enterprise Portal

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The screenshot shows the Tivoli Enterprise Portal interface. A 'History Collection Configuration' dialog box is open, allowing users to select a product for monitoring. A callout box highlights 'WebSphereMQ' in the product list with the instruction: "From the list of products, click WebSphereMQ." The dialog includes the following sections:

- Select a product:** A list of products including COCLogs, WebSphere MQ, WebSphere MQA, Windows OS, ISOS, IBM MQ, Agent, Oper, Log, EEL, Char, Log, IBM MQ, Queue, Stat, Log, and TMCRLST.
- Configuration Controls:**
  - Collection interval: 15 minutes
  - Collection interval unit: min
  - Warehouse interval: 1 day
- Summarization:**
  - Weekly
  - Quarterly
  - Daily
  - Hourly
- Pruning:**
  - Weekly
  - Quarterly
  - Monthly
  - Daily
  - Hourly
  - Custom: min

At the bottom of the dialog are buttons for 'Configure Groups', 'Unconfigure Groups', 'Show Default Licence', 'Start Collection', 'Stop Collection', 'Refresh Status', 'Close', and 'OK'.

The background shows a 'Queue Statistics Summary' window with a bar chart and a table of queue statistics. The table has columns for 'Queue Name', 'Queue Usage', 'Definition Type', and 'Collection Interval'. The table lists several system queues like 'SYSTEM.AUTH.CATA.', 'SYSTEM.CHANNELS.', and 'SYSTEM.SU.SERV.'.

The status bar at the bottom indicates the user is 'OMGR1:MQ' and the system is 'IBM-DF9CDBE7AAB - SYSADMIN - ADMIN MODE'.

# Turning on MQ queue statistics historical collection at the Tivoli Enterprise Portal

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The screenshot displays the Tivoli Enterprise Portal interface. The main window is titled "Queue Statistics for Monitored Queues with Messages - IBM-ET9CDBE7AAB - SYSADMIN - \*ADMIN MODE\*". A "Queue Statistics Summary" window is open, showing a 3D bar chart of "Number of Queues" and a table of queue statistics. A "History Collection Configuration" dialog box is overlaid on the main window. The dialog has a "Select a product" dropdown set to "WebSphere MQ" and a "Select Attributes Groups" list. A yellow callout box with the text "The Attributes Groups list opens. Scroll to MQ\_Queue\_Statistics." points to the "Attributes Groups" list. The dialog also includes "Configuration Controls" for "Collection Interval" (15 minutes) and "Collection" (All), and "Pruning" options for "Verity", "Consistency", "Monthly", "Weekly", "Daily", and "Hourly". At the bottom of the dialog are buttons for "Configure Groups", "Unconfigure Groups", "Show Default Licence", "Start Collection", "Stop Collection", and "Refresh Status". The background table in the "Queue Statistics Summary" window has the following data:

Queue Name	Queue Usage	Definition Type	Collection Interval	Collection	Pruning
SYSTEM.AUTH.CATA...	Normal	Predefined	15 minutes	All	None
SYSTEM.CHANNELS...	Normal	Predefined	15 minutes	All	None
SYSTEM.SU.SERT...	Smvc2	Predefined	15 minutes	All	None

# Turning on MQ queue statistics historical collection at the Tivoli Enterprise Portal

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The screenshot displays the Tivoli Enterprise Portal interface. A 'Queue Statistics Summary' window is open, showing a bar chart of 'Number of Queues' and a table of queue statistics. A 'History Collection Configuration' dialog box is overlaid on top. In this dialog, the 'Select Available Groups' list contains several groups, with 'MQ\_Queue\_Statistics' highlighted by a red circle. A callout box points to this group with the text 'Click MQ\_Queue\_Statistics group.' The dialog also includes 'Configuration Controls' for collection intervals and summarization options.

**Queue Statistics Summary Table:**

Queue Name	Queue Usage	Definition Type	Collection Interval	Collection Interval Unit	Warehouse Interval
SYSTEM.AUTHCATA...	Normal	Predefined	15 minutes	min	1 day
SYSTEM.CHANNELS...	Normal	Predefined	15 minutes	min	1 day
SYSTEM.CHANNELS...	Normal	Predefined	15 minutes	min	1 day
SYSTEM.CHANNELS...	Normal	Predefined	15 minutes	min	1 day



# Turning on MQ queue statistics historical collection at the Tivoli Enterprise Portal

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(a) The default collection values are:

- Collection Interval is 15 minutes
- Collection Location is TEMA (Tivoli Enterprise Management Agent)
- Warehouse Interval is 1 day

(b) To accept the default values, click **Start Collection**. This action starts and enables collection.

Queue Name	Queue Usage	Definition Type	Collection Interval	Collection Location	Warehouse Interval	Summarize	Prune
MQ_Queue_Statistics			15 minutes	TEMA	1 day		
Application_Queue_Temp_History			15 minutes	TEMA	1 day		
Application_Queue_Long_Temp_History			15 minutes	TEMA	1 day		
Application_Transactional_Temp_Long_Temp_History			15 minutes	TEMA	1 day		
QSG_Coupling_Facility_Structure_Exchange				LWA	1 day		
QSG_Coupling_Facility_Structure_Connections							
QSG_Coupling_Facility_Structure							
QSG_Channels							
QSG_Servers							
QSG_Storage							

# Turning on MQ queue statistics historical collection at the Tivoli Enterprise Portal

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The screenshot displays the Tivoli Enterprise Portal interface for configuring MQ queue statistics. A 'History Collection Configuration' dialog box is open, showing a table of queue statistics and configuration options.

**Queue Statistics Table:**

Selectable Groups	Queue Name	Collection Interval	Collection Location	Warehouse Name	Summarize	Prun Yr
<input type="checkbox"/>	MQ_Queue_Statistics	Starts: 1/1 15 minutes	Interval	EDR	day	
<input type="checkbox"/>	Application_Queue_Term_History	Starts: 1/1 15 minutes	Interval	EDR	day	
<input type="checkbox"/>	Application_Queue_Long_Term_History	Starts: 1/1 15 minutes	Interval	EDR	day	
<input type="checkbox"/>	Application_Transactional_Terminal_Long_Term_History	Starts: 1/1 15 minutes	Interval	EDR	day	
<input type="checkbox"/>	QSG_Coupling_Facility_Structure_Exchange					
<input type="checkbox"/>	QSG_Coupling_Facility_Structure_Connections					
<input type="checkbox"/>	QSG_Coupling_Jobrun_Structure					
<input type="checkbox"/>	QSG_Channels					
<input type="checkbox"/>	QSG_Streams					
<input type="checkbox"/>	QSG_Storage					

**Configuration Controls:**

- Collection Interval: 15 minutes
- Collection Location: EDRL
- Warehouse Name: EDRL
- Summarize: day
- Prun Yr: 1 day

**Summary and Pruning:**

- Summary: Yearly, Quarterly, Monthly, Weekly, Daily, Hourly
- Pruning: Yearly, Quarterly, Monthly, Weekly, Daily, Hourly

A yellow callout box states: "When the Collection column indicates **Started**, return to the Tivoli Enterprise Portal by clicking **Close**." A red circle and arrow point to the 'Close' button at the bottom right of the dialog.

# Turning on MQ queue statistics historical collection at the Tivoli Enterprise Portal

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The screenshot displays the Tivoli Enterprise Portal interface for monitoring MQ queues. A yellow callout box points to the 'Queue Statistics' folder in the left-hand tree view, with the text: "To access the Historical Queue Statistics workspace, right-click Queue Statistics in the Enterprise tree." Below the tree view, a 3D bar chart titled "Number of Queues" shows data for various categories: Messages Queued (yellow), User Queued (blue), User Not Held (red), User Get Not B (green), and User Held (cyan). Below the chart is a table with columns for Queue Name, Usage, and other metrics. A mouse cursor is shown hovering over a gear icon in the bottom right corner of the table area.

Queue Name	Usage	Definition Type	Total Counts	Input Opens	Output Opens	Current Exclusion	Current Depth	Highest Depth	High Depth Threshold	% Full	Is Batch Enqueued	Get Status	Put Status	Cur Defn	Trigger Control	Trigger Type	Trigger Data	Trigger Priority	Creation Date & Time	Storage Class	Page Defn ID	Just P...
SYSTEM.AUTH.CATA...	Normal	Predefined	2	1	1	%	71	0	50	0.0	No	Enq...	Enq...	Yes	No	None	-	U	05/18/07 15:39:21			
SYSTEM.CHN.NELS...	Normal	Predefined	0	0	0	%	7	0	50	0.0	No	Enq...	Enq...	Yes	No	None	-	U	05/18/07 15:39:21			
SYSTEM.MQ.SU.STE...	Normal	Predefined	2	1	1	%	1	1	10	10.0	No	Enq...	Enq...	Yes	Yes	First	-	U	05/18/07 15:39:21			
SYSTEM.SU.STE...	Normal	Predefined	2	1	1	%	2	0	50	0.0	No	Enq...	Enq...	Yes	Yes	First	-	U	05/18/07 15:39:21			

# Turning on MQ queue statistics historical collection at the Tivoli Enterprise Portal

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The screenshot displays the 'Queue Statistics for Monitored Queues with Messages' interface. A callout box highlights the 'Workspaces' menu option, stating: 'The menu opens; hover over **Workspaces** to open a menu of available reports.'

The interface includes a tree view on the left, a 'Queue Statistics Summary' chart showing the number of queues for various categories (Messages Queued, User Queued, etc.), and a table of queue statistics at the bottom.

Queue Name	Queue Usage	Definition Type	Total Counts	Input Opens	Output Opens	Current Depth	High Depth	High Depth Threshold	% Full	Is Incl Exceeded	Cur Status	Int Status	Cur Defn	Trigger Control	Trigger Type	Trigger Data	Trigger Priority	Creation Date & Time	Storage Class	Page Get ID	Just P...
SYSTEM.AUTH.CATA...	Normal	Predefined	2	1	1	1	0	50	2.0	No	Ena...	Ena...	Yes	No	None	-	0	02/18/07 15:39:21			
SYSTEM.CHN.NELS...	Normal	Predefined	0	0	0	0	0	50	2.0	No	Ena...	Ena...	Yes	No	None	-	0	02/18/07 15:39:21			
SYSTEM.CHN.SI...	Normal	Predefined	2	1	1	1	0	50	2.0	No	Ena...	Ena...	Yes	No	None	-	0	02/18/07 15:39:21			
SYSTEM.CHN.STE...	Normal	Predefined	2	1	1	1	0	50	2.0	No	Ena...	Ena...	Yes	Yes	First	-	0	02/18/07 15:39:21			

# Turning on MQ queue statistics historical collection at the Tivoli Enterprise Portal

Slide 13

The screenshot displays the Tivoli Enterprise Portal interface for monitoring MQ queues. The main window is titled "Queue Statistics Summary" and features a 3D bar chart showing the "Number of Queues" for various categories: Messages Queued (yellow), User Licensed (blue), User Not Licensed (red), and User Not Licensed (green). A callout box highlights the "Historical Queue Statistics" link in the left-hand navigation menu, with the text: "Click Historical Queue Statistics to populate the queued statistics in the enterprise." Below the chart, there is a table with columns for Queue Name, Queue Usage, and Queue Type. The table lists several system queues, including SYSTEM.AUTHDATA, SYSTEM.CHANNELS, SYSTEM.CHANNELS, and SYSTEM.CHANNELS.

Queue Name	Queue Usage	Queue Type
SYSTEM.AUTHDATA	Normal	Predefin
SYSTEM.CHANNELS	Normal	Predefin
SYSTEM.CHANNELS	Normal	Predefin
SYSTEM.CHANNELS	Normal	Predefin

# Turning on MQ queue statistics historical collection at the Tivoli Enterprise Portal

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When data is available and generates, historical data displays in the Historical Queue Statistics workspace in tabular format.

Recording Time	Sample Label & Time	Queue Length	Input Count	Output Count	Current Depth	High Depth	High Depth Threshold	% Full	Release Rate	Get Rate	Put Rate	Current Count	Trigger Count	Trigger Type	Trigger Length	Trigger Priority	Creation Date & Time	Creation Interval (mins)	Max Length	Max Depth	Max Inflight	Max Avg Length	Current Length
QMGR1::MQ																							

## Turning on MQ queue statistics historical collection at the Tivoli Enterprise Portal

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### Summary

Now that you have completed this module, you can perform the following tasks:

- Start and enable MQ queue statistics
- Display historical queue statistics

## Turning on MQ queue statistics historical collection at the Tivoli Enterprise Portal

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