

# ***What's New in OMEGAMON for Messaging?***

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# ***Brief Overview***

# OMEGAMON for Messaging - Brief Overview

## Provides complete solution for MQ and Broker monitoring

- OMEGAMON for Messaging (*IBM Tivoli Composite Application Manager Agents for WebSphere Messaging on Distributed*) includes capability to gain **improved visibility and management** of messaging subsystems
  - IBM MQ for z/OS (WebSphere MQ)
  - IBM Integration Bus for z/OS (WebSphere Message Broker)
- **Efficiency and cost saving** through integration, Messaging offers an enterprise-wide single point of control with other OMEGAMONs and distributed platform ITCAM Agents for WebSphere Messaging within both the Tivoli Enterprise Portal and the Enhanced 3270 User Interface
- **Superior problem determination** capability with real-time status and statistical monitoring about availability and performance, along with historical data collection for reporting, performance analysis, trend prediction and enterprise-wide business impact analysis
- **Reduced time-to-resolution** of problems with automated problem situation detection and corrective actions, in conjunction with a wealth of workspaces for root cause analysis and correlation with related data about other monitored subsystems



# OMEGAMON for Messaging - Brief Overview

## Integrated health monitoring solution

- Monitor the health of all queue managers in your enterprise using either the Enhanced 3270 UI or the Tivoli Enterprise Portal
- Navigate directly to other OMEGAMONs

Command ==> KMQSTART

07/03/2014 16:20:23  
Auto Update : Off  
HostName :  
QmgrName :

IBM MQ Health Overview

Queue Manager Status

Columns 2 to 7 of 24 Rows 22 to 31 of 31

ΔQMgr VName	Host Name	ΔQMgr VHealth	ΔQueue VHealth	ΔChannel VHealth	ΔCurrent VMQEvents	+QMgr Status
Q6G6	SYS	Critical	Unknown	Unknown	0	Stopp
Q722	SP22	Warning	Critical	Critical	0	Runni
Q721	SP22	Warning	Critical	OK	1	Runni
Q7G4	SYS	Warning	OK	Critical	0	Runni
Q7G1	SYS	Warning	Critical	OK	0	Runni
QM7502	TIVPC033	OK	OK	OK	0	Runni
QM7501	TIVPC043	OK	OK	OK	0	Runni
QM7501	TIVPC033	OK	OK	OK	0	Runni
Q723	SP22	OK	Warning	OK	0	Runni
Q7G6	SYS	OK	Warning	OK	0	Runni

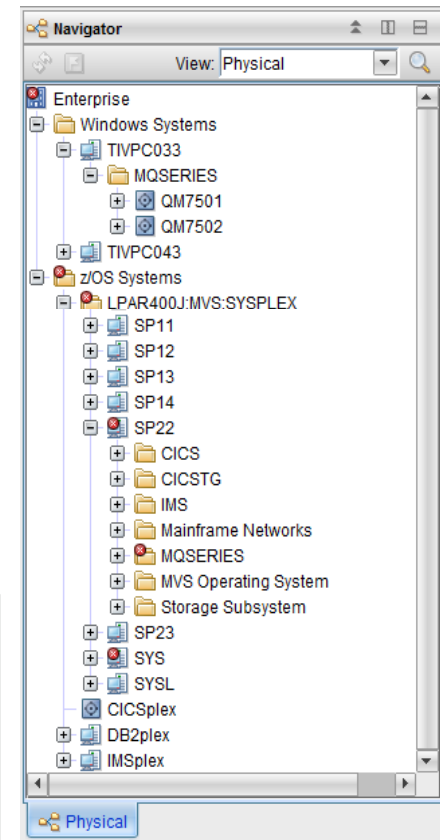
Queue-Sharing Group Nodes

Columns 2 to 4 of 5 Rows 1 to 1

Managed System	Version	Host Address
Q7G2::MQQSG	07.30.00	ip.pipe:#9.42.46.25<NM>SYS</M

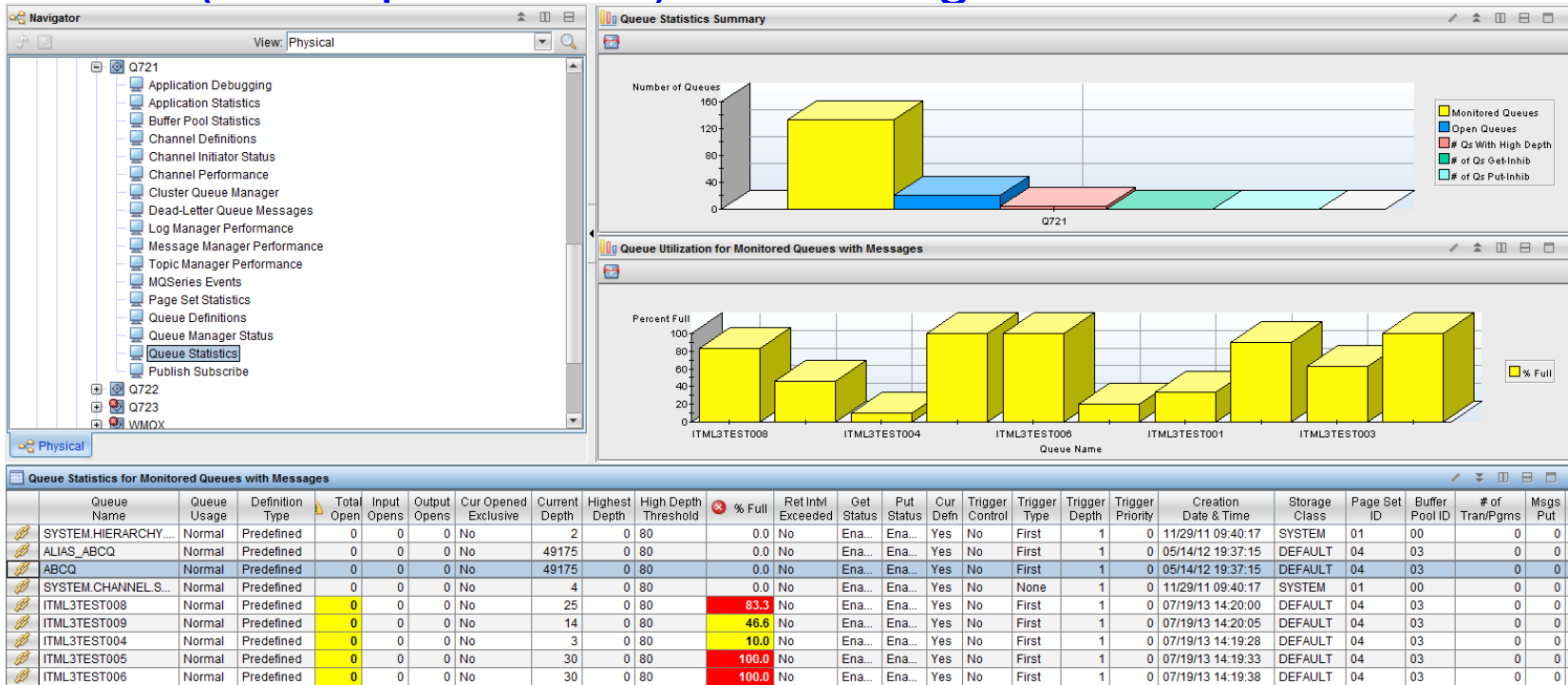
Navigate Help 07

1. Z z/OS
2. C CICS
3. T CTG
4. I IMS
5. D DB2
6. N Networks
7. M MQ
8. S Storage
9. H Home



# OMEGAMON for Messaging - Brief Overview

## IBM MQ (WebSphere MQ) Monitoring



- Queue manager availability, health and performance
- Queue status, usage and statistics
- Channel status and performance
- MQ event monitoring and archival
- Application connections and topology
- Supports ITM features with historical reporting, situations, event forwarding, take-action
- Buffer pool, page set, message manager, log manager and topic manager statistics
- Pub/sub topics and subscriptions
- Dead letter queue and message manipulation
- Application (MQI monitoring) statistics
- Queue sharing group status
- MQ cluster monitoring

# OMEGAMON for Messaging for z/OS

## Version 7.3.0 Fix Pack 2

## Version 7.3.0 Fix Pack 2 Overview

- Planned to be available for both z/OS and distributed platform agents
- IBM MQ Monitoring:
  - MQ Queue Sharing Group SMDS data fully supported
  - New channel attributes added
  - Better stopped listener support on z/OS
  - Queue manager CPF (command prefix) attribute added
  - Queue manager level queue health indicator added for queues not being read
  - Remote queue transmission queue name support added
  - Capability added to create message monitoring situations
  - Clear Current Event take-action supported by agent for Current Events table
  - Setting MQ agent parameters dynamically now supported in Enhanced 3270 UI
  - MQ Application debug trace data now fully supported in Enhanced 3270 UI
  - MQ v9 support (PTF already available)
- IBM Integration Bus Monitoring:
  - Broker monitoring data now supported in new set of Enhanced 3270 UI workspaces
  - New message flow status deployment attributes added
  - IIB v10 recent fix pack support

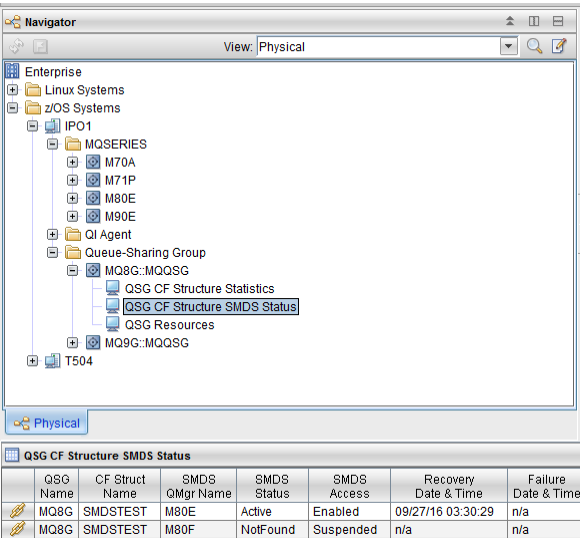
## MQ Monitoring: QSG SMDS Data

- Recent releases of MQ now allow choosing whether message data for shared queues should be offloaded to DB2 (the previous only option) or to an IBM MQ managed data set called a shared message data set (SMDS)
- This offloading always occurs for messages larger than 63 KB, but smaller messages may also optionally be offloaded to reduce coupling facility space usage
- SMDS is faster and uses less CPU than storing large shared messages in DB2
- When using SMDS, each queue manager in the given queue sharing group must have one SMDS data set, which it owns and tracks space for, etc.
- There are capacity, performance and operational considerations, so monitoring data about SMDS is important, for example:
  - How many of messages are being offloaded to SMDS: Has this changed? Are the offloading rule parameters causing more than expected to be offloaded?
  - How full is the SMDS? Is it being expanded automatically?
  - Are there enough buffers in the queue manager for accessing SMDS?



# MQ Monitoring: QSG SMDS Data in TEP (1)

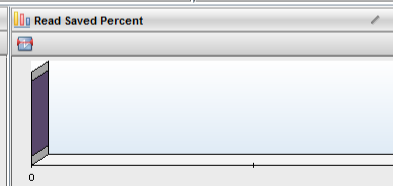
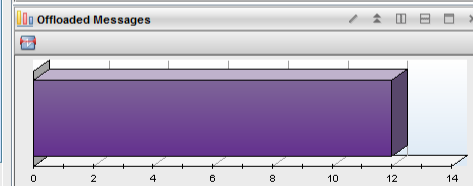
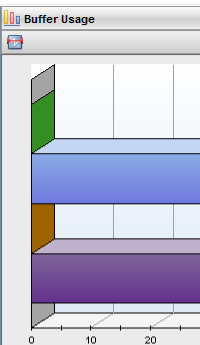
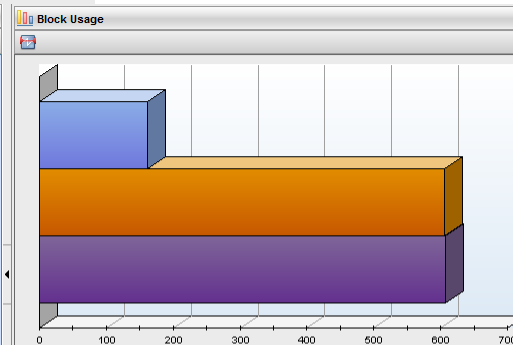
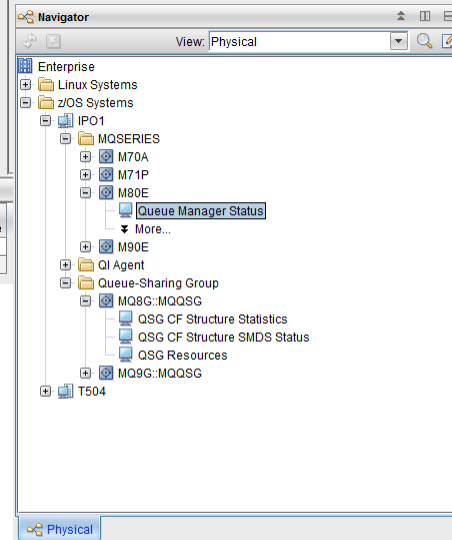
Agent collects SMDS data from MQSC commands and from SMF



Link to:

- SMDS Usage
- SMDS Statistics
- Recent Statistics
- Historical Statistics

QSG CF Structure SMDS Connection Status							
QSG Name	CF Struct Name	SMDS QMgr Name	SMDS Connection Status	Open Mode	Connection Availability	Expansion Status	
MQ8G	SMDSTEST	M80E	Open	Update	Normal	Normal	
	SMDS Usage		Not Enabled	None	Error	Normal	
	SMDS Statistics						
	Recent SMDS Statistics						
	Historical SMDS Statistics						
	Link Wizard...						
	Link Anchor...						



SMDS Usage															
Origin Node	QMgr Name	CF Struct Name	Offloaded Messages	Total Blocks	Total Data Blocks	Used Data Blocks	Used Part %	Block Size	Total Buffers	In Use Buffers	Saved Buffers	Empty Buffers	Reads Saved %	Lowest Free	Wait Rate
M80E:IP01:MQESA	M80E	SMDSTEST	12	607	606	162	26.0	256	100	0	100	0	0.0	100	0.0

## MQ Monitoring: QSG SMDS Data in TEP (2)

[illegible]

# MQ Monitoring: QSG SMDS Data in Enhanced 3270 UI

Navigate to new SMDS data  
via QSG Coupling Facility  
option

New tab added for SMDS

Options for SMDS rows go  
to other SMDS data

The screenshot displays two screens from the Enhanced 3270 UI. The top screen is titled "QSG M08G Coupling Facility SMDS Status" and shows a table with columns: ΔCF Struct VName, ΔSMDS VQMgr Name, SMDS Status, SMDS Access, and Recovery Date & Time. The bottom screen is titled "QSG M08G Coupling Facility SMDS Connections" and shows a table with columns: ΔCF Struct VName, ΔSMDS VQMgr Name, SMDS Connection Status, Open Mode, and Connection Availability. Both screens have a command line at the top showing "Command ==> KMQSMDS" and "Queue-Sharing Group Coupling Facility SMDS".

ΔCF Struct VName	ΔSMDS VQMgr Name	SMDS Status	SMDS Access	Recovery Date & Time
u SMDSTEST	M80E	Active	Enabled	09/27/16 03:30:29
_ SMDSTEST	M80F	Not Found	Suspended	n/a

ΔCF Struct VName	ΔSMDS VQMgr Name	SMDS Connection Status	Open Mode	Connection Availability
_ SMDSTEST	M80E	Open	Update	Normal
_ SMDSTEST	M80F	Not Enabled	None	Error

The screenshot displays the "Qmgr M80E SMDS Usage" screen. It shows a table with columns: QMgr Name, CF Struct Name, and various usage statistics. The table is divided into two sections: one for M80E and one for SMDSTEST.

QMgr Name	CF Struct Name	Usage Statistics
M80E	SMDSTEST	Block Size: 256, Used Data Blocks: 162, Used Part %: 26.0, Empty Buffers: 0, Reads Saved %: 0.0, Lowest Free: 100
M80E	SMDSTEST	Offloaded Messages: 12, Total Blocks: 607, Total Data Blocks: 606, Total Buffers: 100, In Use Buffers: 0, Saved Buffers: 100, Wait Rate %: 0.0

# MQ Monitoring: Better Stopped Listener Support

Before only started listeners showed for z/OS. Now if listener stops after being started, agent will report it.

The screenshot shows the MQ Navigator application with the Queue Manager Status window open. The Queue Manager Status window displays a list of queue managers and their properties. The Queue Manager Status window is open, showing a list of queue managers and their properties.

QMgr Name	Host Name	QMgr Subsys	Host Jobname	Start Date & Time	QMgr Status	QMgr Type	DLO Depth	DLO Maximum	Monitored Queues	Local Queues	Re Q
M80E	IP01	M80E	M80EMSTR	09/28/16 02:16:21	Active	MVS	0	999999999	109	100	

The screenshot shows the MQ Listener Details window. The MQ Listener Status table shows the status of the listener. The MQ TCP IP Started Listeners table shows the details of the started listeners.

Status	Transport Type	Inbound Disposition	TCP IP Address	TCP Port	+List Name
Stopped	TCP	Group		n/a	
Stopped	LU62	Qmgr		n/a	
Stopped	LU62	Group		n/a	
Running	TCP	Qmgr	*	1414	

Port Number	Retrying Listener	Inbound Disposition	+IP Address
1414	No	Qmgr	*

Listener Name	Status	Process Identifier	Start Date & Time	Transport Type	Listener Description	Start/Stop Control	TCP IP Address	TCP Port	Concurrent Conn Request Count	SPX Socket	LU62 Tran Pgm Name	NetBIOS Adapter	NetBIOS Command Count	NetBIOS Name Count	NetBIOS Session Count	NetBIOS Local Name	TCP Port String	Inbound Disposition
	Stopped	n/a	n/a	TCP		n/a		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a			Group
	Stopped	n/a	n/a	LU62		n/a		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a			Qmgr
	Stopped	n/a	n/a	LU62		n/a		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a			Group
	Running	n/a	n/a	TCP		n/a	*	1414	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1414		Qmgr

# MQ Monitoring: Remote Q's Transmission Q Name

Given only the name of the remote queue used by the application, do a find queue command and find out more completely the status of queues and channels involved.

Command ==> Queue Name List HostName :             
KMQQNMLS QmgrName : M80E

☒ **Queues Matching CSQ\*** ☐ ☐ ☐

Columns 2 to 6 of 15     Rows 1 to 5 of 5

ΔQueue VName	ΔQMgr VName	Host Name	ΔQueue VType	Queue Usage	ΔCurr VDept
CSQ4IVP1.MODEL	M80E	IP01	Model	Normal	n/a
CSQ4IVPG.MODEL	M80E	IP01	Model	Normal	n/a
CSQ.TEST1	M80E	IP01	Remote	n/a	n/a
CSQ4IVP1.TRIGGER	M80E	IP01	Local	Normal	0
CSQ4IVPG.TRIGGER	M80E	IP01	Local	Normal	0

Command ==> RemoteQ Status for CSQ.TEST1 HostName : IP01  
KMQQUERD QmgrName : M80E

☒ **Qmgr M80E Remote Queue CSQ.TEST1** ☐ ☐ ☐

Put Status..... Enabled XmitQ Name..... BVT.ACT.

☒ **Qmgr M90E Target Queue CSQ4IVPG.TRIGGER** ☐ ☐ ☐

Current Depth.....	0	Short Term Queue Time.....	n/a
Input Opens.....	0	Long Term Queue Time.....	n/a
Output Opens.....	0	Oldest Msg Age.....	n/a
Last Get Date.....	n/a	Last Put Date.....	n/a
Last Get Time.....	n/a	Last Put Time.....	n/a

Queue Usage.....	Normal	Definition Type.....	Predefin
Get Status.....	Enabled	Trigger Control.....	Off
Put Status.....	Enabled	Trigger Type.....	First
Default Persist.....	No	Trigger Priority.....	0
Default Priority.....	0	Trigger Depth.....	1
Creation Date.....	07/08/16	Alter Date.....	07/08/16
Creation Time.....	08:32:12	Alter Time.....	08:32:12
Max Depth.....	1		

☒ **Applications with Open Handle for Target Queue**

Command ==> Transmission Queue Status Details HostName : IP01  
KMQQXMTD QmgrName : M80E

☒ **Xmit Queue BVT.ACT.XQ** ☐ ☐ ☐

Current Depth.....	0	Short Term Queue Time.....	n/a
Input Opens.....	0	Long Term Queue Time.....	n/a
Output Opens.....	0	Oldest Msg Age.....	n/a
Last Get Date.....	n/a	Last Put Date.....	n/a
Last Get Time.....	n/a	Last Put Time.....	n/a

Queue Usage.....	XmitQ	Definition Type.....	Predefin
Get Status.....	Disabled	Trigger Control.....	Off
Put Status.....	Enabled	Trigger Type.....	First
Default Persist.....	No	Trigger Priority.....	0
Default Priority.....	0	Trigger Depth.....	1
Creation Date.....	03/29/16	Alter Date.....	05/16/16
Creation Time.....	04:33:06	Alter Time.....	03:09:55
Max Depth.....	976562K		

☒ **Channel Status for Xmit Q Channel** ☐ ☐ ☐

Columns 2 to 4 of 18 Rows 1 to 1 of 1

ΔChannel Name	Connection Name	Channel Status	+In-Doubt Status
s BVTCTO.AACT	127.0.0.1(3414)	Stopped	Not In-Doubt

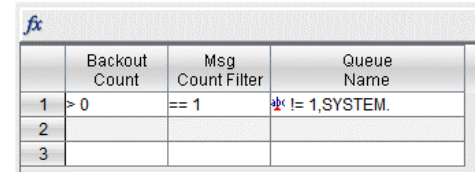
☒ **Applications with Open Handle for Queue**

# MQ Monitoring: Message Monitoring Situations (1)

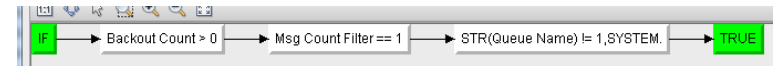
## Message Summary attributes

1. Detect when the first (oldest) message on a queue has gone through backout processing.

➔ Use the Queue Name filter to determine queues covered; here the test is for non-system queues.

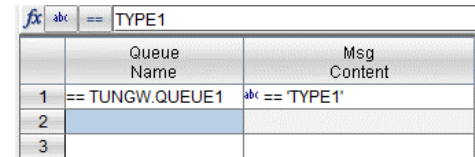


	Backout Count	Msg Count Filter	Queue Name
1	> 0	== 1	!= 1,SYSTEM.
2			
3			



2. Detect an application has queued a message for a particular type of error on its application error queue, using first the 256 content bytes in UTF8.

➔ Note: If *any* message put to that queue should raise the same alert, use queue depth monitoring instead.

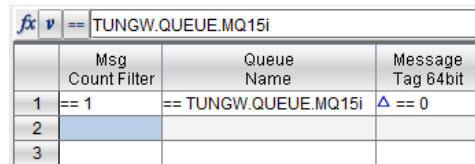


	Queue Name	Msg Content
1	== TUNGW.QUEUE1	== 'TYPE1'
2		
3		

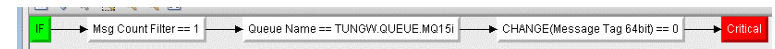


3. Detect that the first message on a queue is not changing as it should normally; that is, it has not changed since the last situation interval.

➔ The message tag value is computed from header to uniquely identify message; it does not include the backout count from header.



	Msg Count Filter	Queue Name	Message Tag 64bit
1	== 1	== TUNGW.QUEUE.MQ15i	== 0
2			
3			



## MQ Monitoring: Message Monitoring Situations (2)

- Message Summary attribute group is the same as feeds Queue Messages and Dead-Letter Queue Messages workspaces, which have links to details and allow forward, retry, and delete
- In TEP, customize a link from your situation's event view to Queue Messages to facilitate this
- A variety of MQMD and DLQ header attributes can be used in situations

*Caution:* Limit the matching queue(s) and number of messages browsed

- Filter on queue name allows four constructs:
  1. Queue Name == <value>
  2. STR(Queue Name) != 1,<value>
  3. STR(Queue Name) == 1,<value>
  4. SCAN(Queue Name) == <value>
- A maximum of 500 messages is considered for matching the situation

*Security:* For security reasons, this feature is not enabled by default

- Restrictive new agent parameters apply:
  - Specified on SET GROUP, or SET MANAGER, or SET QACCESS
    - MSGSITACCOUNT(MQAGENT|USER=user\_id) - no default
    - MSGSITMON (YES|NO|STATONLY) - STATONLY default as pre-FP2 behavior
  - Documentation will specify the processing rules for all related parameters
- Message content attribute will only be filled in if allowed by the applicable MSGACCESS and even then, only if it is part of the situation filter

# MQ Monitoring: Setting Agent Parameters in Enhanced 3270 UI

KMQQMACT Take Actions for Queue Manager Q821

Select an action and then press ENTER

- a \_1. A Update Monitoring Agent Parameters
- 2. D Set System Default (z/OS Only)
- 3. L Set Log (z/OS Only)
- 4. R Resume Cluster Queue Manager
- 5. S Set System (z/OS Only)
- 6. Z Issue MQSC Action Command

KMQUPMAP Options for Updating Monitoring Agent Parameters

Note: All changes made to agent parameters via these options are temporary and effective only until the agent is stopped. To make changes permanent, please update agent parameters using PARMGEN.



Select an action and then press ENTER

- 1. A Update SET APPL Parameters
- 2. K Issue KMQCMD Command
- 3. M Update SET MQIMONITOR Parameters

1.

KMQSAPPL Update SET APPL Parameters

Specify the values and then press ENTER

NAME ==> \*\_\_\_\_\_ required, 1-8 char  
TRANPGM ==> \_\_\_\_\_ optional, 1-8 char, default "\*"   
MGRNAME ==> \_\_\_\_\_ optional, 1-48 char, default "\*"   
TRACE ==> YES\_\_\_\_\_ optional, NO|YES, default "NO"  
TRACELIMIT==> 1000\_\_\_\_\_ optional, 1-12000, default 1000  
STATISTICS==> \_\_\_\_\_ optional, NONE|NOQDATA|NODYNAMQ|ALL, default "NODYNAMQ"  
STATUS ==> \_\_\_\_\_ optional, ADD|DELETE, default "ADD"

Refer to the MQ Monitoring Agent User's Guide for details

KMQTAMSG

Take Action Results

Action F QID0MQ,KMQCMD SET APPL NAME(\*) TRACE(YES) TRACELIMIT(1000) is issued.

2.

KMQCMDCL Issue KMQCMD Command

Specify the command and then press ENTER

SET QUEUE NAME(\*) GROUP(DEFAULT) STATISTICS(YES)\_\_\_\_\_

Note:

1. Enter only one free-form KMQCMD at a time, as documented in the MQ Monitoring Agent User's Guide except without specifying the prefix: "F CANSMQ,KMQCMD".
2. The maximum length of command supported is limited to 180 bytes.
3. Make sure no word is split on two lines.

3.

KMQSMQIM Update SET MQIMONITOR Parameters

Specify the values and then press ENTER

STATUS ==> INSTALL\_\_\_\_\_ required, INSTALL|REMOVE|FREMOVE  
MGRNAME ==> \_\_\_\_\_ required if GROUP not set  
GROUP ==> DEFAULT\_\_\_\_\_ required if MGRNAME not set  
BUFFERSIZE ==> 64\_\_\_\_\_ optional, maximum 2048, default 32  
BUFFERSIZEMAX ==> 512\_\_\_\_\_ optional, maximum 2048, default 512  
BUFFERINCREMENTSIZE==> 64\_\_\_\_\_ optional, maximum 2048, default 32

Refer to the MQ Monitoring Agent User's Guide for details



# MQ Monitoring: Application Debug Trace in Enhanced 3270 UI

Command ==> \_\_\_\_\_ HostName : SP22  
KMQAPPS3\* \_\_\_\_\_ QmgrName : 0821

**Application Summary**

Connections Statistics Debug Trace

**1 Application Debug Trace - Select Appl ID**

Columns 2 to 3 of 3 Rows 1 to 1

ΔAppl ID	Appl Type	# of Trace Entries
APPTSTA	BATCH	450
s APPTSTB	BATCH	467
Q821MSTR	SYSTEM	2742
QIDOMQ	BATCH	1253
QMD1MQ	BATCH	46
Q821CHIN	CHINIT	102
LAT1MQ	BATCH	30

Command ==> \_\_\_\_\_ HostName : SP22  
KMQAPDTR\* \_\_\_\_\_ QmgrName : 0821

**Application Debug Trace**

Selected Application Attributes:  
Appl ID APPTSTB Tran/Pgm AMQSPUT Task ID 1ED62558 Task Name AMQSPUT

**4 MQI Trace Entries**

Columns 2 to 3 of 9 Rows 1 to 26 of 29

ΔTrace VDate & Time	MQI Call	+Object Name
04/25/16 18:42:04	MQGET	APPTTEST.OUT.Q1
04/25/16 18:42:04	MQGET	APPTTEST.OUT.Q1
04/25/16 18:42:04	MQGET	APPTTEST.OUT.Q1
s 04/25/16 18:42:03	MQGET	APPTTEST.OUT.Q1

Command ==> \_\_\_\_\_ HostName : SP22  
KMQAPDTP\* \_\_\_\_\_ QmgrName : 0821

**Application Debug Trace Tran/Pgm Selection**

**2 APPTSTB Debug Trace - Select Tran/Pgm**

Columns 2 to 2 of 2 Rows 1 to 1

ΔTran/Pgm	# of Trace Entries
s AMQSPUT	505

Command ==> \_\_\_\_\_ HostName : SP22  
KMQAPDTI\* \_\_\_\_\_ QmgrName : 0821

**Application Debug Trace Task ID Selection**

**3 APPTSTB AMQSPUT Debug Trace - Select Task ID**

Columns 2 to 3 of 3 Rows 1 to 1

ΔTask ID	Task Name	# of Trace Entries
s 1ED62558	AMQSPUT	505

Command ==> \_\_\_\_\_ HostName : SP22  
KMQAPDTP\* \_\_\_\_\_ QmgrName : 0821

**Application Debug Trace Detail Parameters**

Debug Trace Record: 1160425184203404  
Selected Application Attributes:  
Appl ID APPTSTB Tran/Pgm AMQSPUT Task ID 1ED62558 Task Name AMQSPUT

**5 MQI Trace Detail Parameters**

Columns 2 to 2 of 2 Rows 1 to 25 of 141

Parameter Name	+Parameter Value
Call	3
Time issued	18:42:03.404
Time completed	18:42:03.404
MQ Response time (ms)	0
Completion Code	0
Reason code	0
Possible Causes	0
Buffer Length	1077952576
Data Length	0
OBJECT DESCRIPTION	MQOD
-MQOD ObjectType	1
-MQOD ObjectName	APPTTEST.OUT.Q1



# Broker Monitoring: Enhanced 3270 UI Workspace Examples (2)

File Edit View Tools Navigate Help 05/03/2016 14:59:15  
 Command ==> KQIBRSTS Integration Broker Status  
 Auto Update : Off  
 HostName : ADMINIB-  
 BrkrName : K1BROKER

Integration Broker Integration Servers Message Flows

▼ K1BROKER Status

Integration Servers.....	2	Broker Status.....	Started
Message Flows.....	4	Stopped Msg Flows.....	0
Release.....	10.0	Started Msg Flows.....	4
Queue Manager.....	K1QMGR	QMgr Connect Status.....	n/a
System Name.....	ADMINIB-	Jobname Taskname.....	bipbroke
ASID.....	n/a	Process ID.....	3196
Platform.....	Windows7	Start Date.....	00/00/00
Platform Version.....	6.1-SP1	Start Time.....	00:00:00
Component Type.....	MessageB	Statistic Archive Interval	5
Http Listener Port.....	7080	Http Listener Trace Level	None
Configuration Timeout.....	300	Http Listener Trace Size..	0
Config Delay Timeout.....	60	Trusted QMgr.....	n/a
Migration Needed.....	No	FAD Level.....	8
Lil Path.....	n/a	Converters.....	n/a

▼ K1BROKER Status Events

Columns	2 to 4 of 7	←	→	↑	↓	Rows	1 to	1 of	1
◊Event	Event Type	Event	+Event						
Date & Time			Qualifier 1						
05/03/16 11:39:52	Status	Start	K1BROKER						





# Broker Monitoring: Enhanced 3270 UI Workspace Examples (5)

File Edit View Tools Navigate Help 05/03/2016 15:02:07  
Auto Update : Off  
Command ==> KQISVSVS  
HostName : ADMINIB-  
BrkrName : K1BROKER

Integration Server Status

Integration Server JVM Parsers File ODBC JDBC >>

EGroup1 Status

Total Msg Flows.....	2	Status.....	Started
Started Msg Flows.....	2	Stopped Msg Flows.....	0
Trace Level.....	None	User Trace Level.....	None
Trace Log File Size.....	102400K	User Trace Log File Size..	102400K
Trace Log File Mode.....	Safe	User Trace Log File Mode..	Safe
Event Log File Size.....	0	Event Log File Mode.....	Safe

EGroup1 Message Flows

Columns 2 to 5 of 22 Rows 1 to 2 of 2

Message Flow	Appl	Library	Status	Processing Nodes
InitProcessing	KApplication		Started	3
Process1	KApplication		Started	4

# Broker Monitoring: Enhanced 3270 UI Workspace Examples (6)

File Edit View Tools Navigate Help 05/03/2016 15:10:14  
Auto Update : Off  
Command ==> KQIMFMFS  
HostName : ADMINIB-  
BrkrName : K1BR0KER

Message Flow Status

Message Flow Processing Nodes Threads

Message Flow..... Process1  
Library.....  
Application..... KApplication  
Integration Server..... EGroup1

Message Flow Status

Processing Nodes.....	4	Status.....	Started
Additional Instances.....	0	Commit Count.....	1
Coordinated Transaction...	No	Commit Interval.....	0
Trace Level.....	None	User Trace Level.....	None
Stats Archive Status.....	Active	Stats Snapshot Status.....	Inactive
Stats Archive Thread Data...	Basic	Stats Snapshot Thread Data	None
Stats Archive Node Data...	Advanced	Stats Snapshot Node Data...	None
Stats Archive Output Form...	XML	Stats Snapshot Output Form	Usertrac
Stats Archive Acct Origin...	None	Stats Snapshot Acct Origin	None

Message Flow Statistics

Accounting Origin.....	Anonymou	Input Msg Rate.....	3.97
Total Input Msgs.....	1191	Input Byte Rate.....	2486.74
Total Elapsed Microseconds	2188187	Total CPU Microseconds...	83138
Avg Elapsed Microseconds..	1837	Avg CPU Microseconds.....	70
Max Elapsed Microseconds..	4817	Max CPU Microseconds.....	4284
Min Elapsed Microseconds...	339	Min CPU Microseconds.....	2
In Msg Wait Elapsed Micros	292966K	In Msg Wait CPU Micros....	936002
Total Input Msg Size.....	746757	Total Commits.....	1191
Avg Input Msg Size.....	627	Total Backouts.....	0
Max Input Msg Size.....	627	Total MQ Errors.....	0
Min Input Msg Size.....	627	Total Msg Errors.....	0
Aggregate Wait Timeouts...	0	Total Processing Errors...	0
Threads in Pool.....	2	Times Max Threads Reached.	0
Interval Start Date.....	05/03/16	Interval End Date.....	05/03/16
Interval Start Time.....	12:03:29	Interval End Time.....	12:08:29

# Broker Monitoring: Enhanced 3270 UI Workspace Examples (7)

File Edit View Tools Navigate Help05/03/2016 15:20:23  
Auto Update : Off  
HostName : ADMINIB-  
BrkrName : K1BROKER

Command ==>  
KQIMFMFR

Recent Message Flow Statistics

Message Flow..... Process1  
Library.....  
Application..... KApplication  
Integration Server..... EGroup1

Process1 Statistics

Columns 2 to 5 of 28 Rows 1 to 6 of 6

Interval Start Date & Time	Total Input Msgs	Input Msg Rate	Avg Elapsed Microseconds	+Avg CPU Microseconds
05/03/16 12:13:29	1192	3.96	2106	98
05/03/16 12:08:29	1189	3.96	2091	85
05/03/16 12:03:29	1191	3.97	1837	70
05/03/16 11:58:29	1189	3.96	2112	82
05/03/16 11:53:29	1188	3.96	2085	77
05/03/16 11:48:30	1187	3.96	2078	108

File Edit View Tools Navigate Help05/03/2016 15:13:04  
Auto Update : Off  
HostName : ADMINIB-  
BrkrName : K1BROKER

Command ==>  
KQIMFTHR

Recent Thread Statistics

Thread Number..... 2300  
Message Flow..... Process1  
Library.....  
Application..... KApplication  
Integration Server..... EGroup1

2300 Statistics

Columns 2 to 5 of 16 Rows 1 to 5 of 5

Interval Start Date & Time	Total Input Msgs	Input Msg Rate	Avg Elapsed Microseconds	Avg CPU Microseconds
05/03/16 12:03:29	595	1.98	2327	97
05/03/16 11:58:29	595	1.98	2675	126
05/03/16 11:53:29	594	1.98	2643	117
05/03/16 11:48:30	593	1.98	2626	167
05/03/16 11:43:27	572	1.89	2933	123

File Edit View Tools Navigate Help05/03/2016 15:18:55  
Auto Update : Off  
HostName : ADMINIB-  
BrkrName : K1BROKER

Command ==>  
KQINDNDR

Recent Processing Node Statistics

Node Label..... MQ Input  
Message Flow..... Process1  
Library.....  
Application..... KApplication  
Integration Server..... EGroup1

MQ Input Statistics

Columns 2 to 5 of 18 Rows 1 to 6 of 6

Interval Start Date & Time	Node Type	Invocations	Invocation Rate	+Avg Elaps Microseco
05/03/16 12:13:29	MQInputNode	596	1.98	399
05/03/16 12:08:29	MQInputNode	595	1.98	395
05/03/16 12:03:29	MQInputNode	595	1.98	345
05/03/16 11:58:29	MQInputNode	595	1.98	401
05/03/16 11:53:29	MQInputNode	594	1.98	397
05/03/16 11:48:30	MQInputNode	593	1.98	388

File Edit View Tools Navigate Help05/03/2016 15:18:12  
Auto Update : Off  
HostName : ADMINIB-  
BrkrName : K1BROKER

Command ==>  
KQINDTRR

Recent Terminal Statistics

Terminal Label..... out  
Node Label..... MQ Input  
Message Flow..... Process1  
Library.....  
Application..... KApplication  
Integration Server..... EGroup1

out Statistics

Columns 2 to 5 of 6 Rows 1 to 5 of 5

Interval Start Date & Time	Terminal Type	Invocations	Invocation Rate	+Interval End Date & Time
05/03/16 12:08:29	Output	595	1.98	05/03/16 12:13:2
05/03/16 12:03:29	Output	595	1.98	05/03/16 12:08:2
05/03/16 11:58:29	Output	595	1.98	05/03/16 12:03:2
05/03/16 11:53:29	Output	594	1.98	05/03/16 11:58:2
05/03/16 11:48:30	Output	593	1.98	05/03/16 11:53:3



# Broker Monitoring: Enhanced 3270 UI Workspace Examples (8)

KQIBRACT    Take Action Commands  
Broker: K1BROKER

Select an action and then press ENTER

- 1. B Change Broker
- 2. C Change Properties
- 3. F Change Flow Stats
- 4. P Stop Broker
- 5. R Refresh Agent's Broker Definitions
- 6. S Start Broker
- 7. T Change Trace

KQISVACT    Take Action Commands  
Integration Server: EGroup1  
Broker: K1BROKER

Select an action and then press ENTER

- 1. B Broker Take Action Commands
- 2. P Stop All Message Flows in Server
- 3. S Start All Message Flows in Server

KQIMFACT    Take Action Commands  
Message Flow: Process1  
Library:  
Application: KApplication  
Integration Server: EGroup1  
Broker: K1BROKER

Select an action and then press ENTER

- 1. B Broker Take Action Commands
- 2. I Integration Server Take Action Commands
- 3. P Stop Message Flow
- 4. S Start Message Flow

# IBM OMEGAMON for Messaging on z/OS V7.5.0

# OMEGAMON for Messaging v750 Content Overview

- Log Manager performance attributes added to current, recent and historical attribute groups
- Process Information attributes added for MQ process definitions
- Pub/Sub attributes added to Publish Subscribe Status, Topic Definitions and Topic Status
- Attributes added to QSG Coupling Facility Structures for offload information
- Attributes added to Queue Data for better characterization of a z/OS queue
- Transmission queue name added to Channel Data, also for cluster queue manager
- Attributes added to Current Queue Manager Status to identify Sysplex and LPAR names
- DLQ reason code enumerations clarified; Application Type enumerations added
- Numerous updates to MQ Enhanced 3270UI:
  - Pub/Sub data now available, including subscription definitions and status and topic definitions and status
  - Improved support for monitoring IBM MQ across multiple systems, including sysplex tree view of queue managers, managed system list views, enterprise-wide cluster and QSG views, and monitoring agent status
  - Changes for improved usability and completeness, such as with tabbed queue summary by type, tabbed channel summary by type, clear display of log names and 6/8 byte RBAs, more queue manager detail tabs, options for listing DLQ and queue messages, and improved MQ Event workspaces
- Message added to identify when agent cannot discover queue managers due to MQ ERLY support level
- Attributes added in broker monitoring agent for CICS, Global Cache and JMS Resource Statistics
- Agent configuration deployment simplification in PARMGEN
- Agent names updated to reflect the IBM MQ and IBM Integration Bus names
- Product name changed to IBM OMEGAMON for Messaging on z/OS
- The old MQ 3270 is withdrawn; please use the Enhanced 3270UI
- MQ Configuration component is withdrawn; please use features provided in IBM MQ and other IBM products
- Note: v750 is planned for z/OS only; distributed agents will remain at the v7.3.0 Fix Pack 2 level

New MQ  
Overview  
Tabbed  
Workspace

Queue  
Managers  
are shown  
organized in  
Sysplex  
Tree View.

Each tab  
is also an  
option  
from the  
KOB MQ  
start  
screen.

File Edit View Tools Navigate Help 07/12/2017 16:27:20  
Auto Update : Off  
HostName :  
QmgrName :

Command ==> KMQSTQMS MQ Overview

QueueManagers QMgrLists Clusters QueueSharingGroups Agents

Queue Manager Status per Sysplex

Columns 2 to 4 of 4 Rows 1 to 27 of 31

ΔName ▽ - +	ΔQMgr ▽Status	ΔChannel ▽Initiator	ΔCommand ▽Server
- LPAR400J			
- SP22			
- MQRG	Stopped	Stopped	Stopped
- Q722	Stopped	Stopped	Stopped
- Q723	Stopped	Stopped	Stopped
- WMQX	Stopped	Stopped	Stopped
- Q821	Running	Running	Waiting
- Q721	Running	Running	Waiting
- Q921	Running	Running	Waiting
- SYS			
- Q7G5	Stopped	Stopped	Stopped
- Q7G1	Stopped	Stopped	Stopped
- Q7G6	Stopped	Stopped	Stopped
- Q7G2	Stopped	Stopped	Stopped
- Q7G3	Stopped	Stopped	Stopped
- Q7G4	Running	Running	Waiting
- Q8G1	Running	Running	Waiting
- PLEX18			
- IP03			
- M60Z	Stopped	Stopped	Stopped
- M71A	Stopped	Stopped	Stopped
- M71B	Stopped	Stopped	Stopped
- M71C	Stopped	Stopped	Stopped
- M71M	Stopped	Stopped	Stopped
- M80F	Stopped	Stopped	Stopped
- M80L	Stopped	Stopped	Stopped
- M80B	Stopped	Stopped	Stopped

BACK Hub RTE1:CMS on platform IP03(z/OS)

File
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Navigate
Help

07/12/2017 16:54:39  
Auto Update : Off  
HostName :  
QmgrName :

Command ==> KMQSTCLS
MQ Overview

QueueManagers
QMgrLists
Clusters
QueueSharingGroups
Agents

Queue Manager Clusters

Columns 2 to 4 of 4
Rows 1 to 4 of 4

ΔCluster ▽	ΔCluster ▽QMgr Count	ΔRepository ▽QMgr Count	ΔSuspended ▽QMgr Count
CLUSTERForM90E	2	2	0
CLUV8	3	3	1
C6118	2	2	0
SYSGSP22	2	2	0

Options Menu

Select an option and then press ENTER

1. C Cluster Channels  
2. Q Cluster Queue Definitions  
3. S Cluster Queue Managers  
4. T Cluster Topic Definitions

The Clusters tab of the MQ Overview discovers all clusters in the enterprise with queue manager counts. The options for each cluster allow displaying various data per cluster previously only available for a given queue manager.

Command ==&gt;

KMQSTCL2

## Cluster Queue Managers

## Cluster CLUV8

Columns 2 to 7 of 11

ΔCluster ▽QMgr	ΔCluster ▽QMgr Type	ΔSuspended ▽	ΔQMGr ▽Reporting	ΔCluster Channel ▽Definition Type	ΔChannel ▽Name	ΔXmitQ ▽Name
Q8G1	Repository	No	Q8G1	Explicit Cluster-Receiver	CLUV8.Q8G1	
Q8G1	Repository	No	Q821	Explicit/Auto Cluster-Sender	CLUV8.Q8G1	SYSTEM.CLUSTER.TRANS
Q821	Repository	No	Q821	Explicit Cluster-Receiver	CLUV8.Q821	
SYSTEM.TEM	Repository	Yes	Q8G1	Explicit Cluster-Sender	CLUV8.Q821	SYSTEM.CLUSTER.TRANS

Cluster queue manager data now includes the transmission queue name when applicable, with an option to get to its status.

Command ==&gt;

KMQCLPTD

## Cluster Topic Definitions

## Cluster CLUV8

Columns 2 to 4 of 28

Rows 1 to 2 of 2

ΔTopic ▽Name	ΔCluster ▽QMgr	ΔQMGr ▽Reporting	ΔTopic ▽String
K.TEST.TOPIC	Q821	Q821	K.TEST
SYSTEM.TEST.CLUSTER.TOPIC	Q821	Q821	MYTEST

An extension of pub/sub data support includes cluster topics. definitions list.

File
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Help

07/12/2017 17:12:50  
Auto Update : Off  
HostName :  
QmgrName :

Command ==> KMQSTQSG
MQ Overview

QueueManagers

QMgrLists

Clusters

QueueSharingGroups

Agents

▼

Queue-Sharing Groups

Columns 2 to 5 of 5

←

→

↑

↓

Rows 1 to 3 of 3

ΔQSG ▽Name	ΔTotal ▽QMgr Count	ΔActive ▽QMgr Count	ΔInactive ▽QMgr Count	ΔFailed ▽QMgr Count
— MQ9G	2	2	0	0
— Q8GG	3	2	0	1
— Q94G	3	2	0	1

Options Menu

Select an option and then press ENTER

—

1. C QSG Channels

2. F QSG Coupling Facility Structures

3. Q QSG Queues

4. S QSG Queue Managers

The QueueSharingGroups tab of the MQ Overview discovers all QSGs in the enterprise with queue manager counts. The options for each QSG allow displaying various data like before.

Command ==&gt;

HostName :

KMQQGCFS Queue-Sharing Group Coupling Facility Structures

QmgrName :

Structures

SMDS

## QSG Q8GG Coupling Facility Structures



Columns 13 to 21 of 22



Rows 1 to 4 of 4

ΔCF Struct VName	Offload Usage	Expand Dataset	Automatic Recovery	Conn Loss Action	Offload Threshold 1	Offload Threshold 2	Offload Threshold 3	Offload Size 1	Offload Size 2
CSQ_ADMIN	None	Default	No	Terminate	0	0	0		
CSQSYSAPPL	None	Default	Yes	Terminate	0	0	0	0K	0K
MQ001	SMDS	Yes	Yes	Terminate	70	80	90	32K	4K
SMDSTEST	SMDS	Yes	No	AsQmgr	70	80	90	32K	4K

## QSG Q8GG CF Structure Connections



Columns 2 to 5 of 5



Rows 1 to 6 of 6

ΔCF Struct VName	QMgr Name	Conn Status	Failure Date & Time	Host Name
---------------------	--------------	----------------	------------------------	--------------

QSG Coupling Facility Structures attributes have been added giving offload information. Note that the SMDS tab was added previously in v7.3.0 Fix Pack 2.



FileEditViewToolsNavigateHelp

07/12/2017 17:15:47

Command ==> KMQSTAGS

MQ Overview

Auto Update : Off

HostName :

QmgrName :

QueueManagers

QMgrLists

Clusters

QueueSharingGroups

Agents

☒

Monitoring Agent Status

☐☐☐

Columns 2 to 5 of 6

←

→

↑

↓

Rows 1 to 3 of 3

ΔAgent ▽Name	ΔStatus ▽	ΔVersion ▽	ΔThru ▽Node	ΔHost Address ▽
— IP03:MQIRA	*ONLINE	07.50.00	RTE1:CMS	ip.pipe:#9.30.242.162Ÿ
— SYS:MQIRA	*ONLINE	07.50.00	RTE1:CMS	ip.pipe:#9.30.238.55Ÿ1
— SP22:MQIRA	*ONLINE	07.50.00	RTE1:CMS	ip.pipe:#9.30.238.66Ÿ1

Options Menu

Select an option and then press ENTER

—

1. M Active Queue Managers at Agent

2. S Agent Status

The Agents tab of the MQ Overview lists all of the MQ monitoring agents with online/offline status. Note that the Agent Status option will show embedded data from OMEGAMON z/OS about the agent address space.

FileEditViewToolsNavigateHelp

07/12/2017 17:06:03  
Auto Update : Off  
HostName :  
QmgrName :

Command ==> KMQSTLIS

MQ Overview

QueueManagers

QMgrLists

Clusters

QueueSharingGroups

Agents

Queue Manager Lists

Columns 1 to 1 of 1

Rows 1 to 4 of 4

ΔMQ Managed System List

\*MVS\_MQM

Group1\_Qmgrs

Group2\_Qmgrs

Group3\_Qmgrs

Options Menu

Select an option and then press ENTER

1. C Channel Summary

2. N Channel Status

3. P Publish/Subscribe

4. Q Queue Summary

5. R Queue Statistics

6. S Queue Manager Health Overview

The QMgrLists tab of the MQ Overview displays Managed System Lists that you define to group your queue managers logically for monitoring. The options for each list allow displaying information from all queue managers in the selected list.

File Edit View Tools Navigate Help07/12/2017 17:09:17

Command ==> KMQPLPSSAuto Update : Off

Publish/Subscribe

HostName :

QmgrName :

QMGrStatusSubscriptionsSubStatusTopicsTopicStatus

Queue Manager Pub/Sub Status

Columns 2 to 6 of 6Rows 1 to 9 of 9

ΔQMGr ▽Name	ΔHost ▽Name	ΔPub Sub ▽Type	ΔPub Sub ▽Status	ΔSubscription ▽Count	ΔTopic ▽Count
M71Y	IP03	Local	Active	0	0
M80A	IP03	Local	Active	1	5
M90E	IP03	Local	Active	1	5
M90X	IP03	Local	Active	7	46
Q7G4	SYS	Local	Active	0	0
Q721	SP22	Local	Active	0	0
Q8G1	SYS	Local	Active	1	5
Q821	SP22	Local	Active	1	7
Q921	SP22	Local	Active	1	5

Publish/Subscribe data is now available in the Enhanced 3270UI. Here, it has been selected as an option from the QMgrLists tab, so it shows pub/sub data about all the queue managers in that list. The same data is available at the individual queue manager level also.

Command ==> \_\_\_\_\_ HostName : \_\_\_\_\_  
 KMQPLSBD Publish/Subscribe QmgrName : \_\_\_\_\_

QMGrStatus Subscriptions SubStatus Topics TopicStatus

Subscriptions tab lists all defined subscription objects.

Subscription Definitions

Columns 2 to 4 of 25 Rows 1 to 11 of 17

ΔSub VName	ΔQMGr VName	ΔTopic VString	ΔTopic VName
M71Y SYSTEM.BROKER.INTER.BROKER.COMMUNICATIONS C	M71Y	SYSTEM.BROKER.ADMIN.STREAM/MQ/M71Y	SYSTEM.BRO
M80A SYSTEM.BROKER.INTER.BROKER.COMMUNICATIONS C	M80A	SYSTEM.BROKER.ADMIN.STREAM/MQ/M80A	SYSTEM.BRO
M90E SYSTEM.BROKER.INTER.BROKER.COMMUNICATIONS C	M90E	SYSTEM.BROKER.ADMIN.STREAM/MQ/M90E	SYSTEM.BRO
M90X KQI.AGENT.REPLY.QUEUED2D256DC8DCB2AA0 7A7AD	M90X	\$SYS/Broker/M90XBRK/warning/#	SYSTEM.BRO
M90X KQI.AGENT.REPLY.QUEUED2D256DC8DCB2AA0 7A7AD	M90X	\$SYS/Broker/M90XBRK/Configuration/#	SYSTEM.BRO

KMQPLSBD Publish/Subscribe QmgrName : \_\_\_\_\_

QMGrStatus Subscriptions SubStatus Topics TopicStatus

SubStatus tab lists current status data for subscriptions.

Subscription Status

Columns 2 to 7 of 11 Rows 1 to 11 of 17

ΔSub VName	ΔQMGr VName	ΔMsg VCount	ΔSub VUser	ΔDurable V	ΔSub VType	ΔLast VDate & Time
M71Y SYSTEM.BROKER.INTER.BROKER.COMMUNICATIONS C	M71Y	1	IBMUSER	Yes	API	07/05/17 01:3
M80A SYSTEM.BROKER.INTER.BROKER.COMMUNICATIONS C	M80A	1	IBMUSER	Yes	API	06/08/17 05:0
M90E SYSTEM.BROKER.INTER.BROKER.COMMUNICATIONS C	M90E	1	IBMUSER	Yes	API	05/30/17 22:3
M90X KQI.AGENT.REPLY.QUEUED2D256DC8DCB2AA0 7A7AD	M90X	0	IBMUSER	No	API	n/a
M90X KQI.AGENT.REPLY.QUEUED2D256DC8DCB2AA0 7A7AD	M90X	3	IBMUSER	No	API	07/12/17 09:0
M90X KQI.AGENT.REPLY.QUEUED2D256DC8DCB2AA0 7A7AD	M90X	10311	IBMUSER	No	API	07/12/17 18:1

Command ==> \_\_\_\_\_ HostName : \_\_\_\_\_  
 KMQPLTPD Publish/Subscribe QmgrName : \_\_\_\_\_

QMgrStatus Subscriptions SubStatus Topics TopicStatus

Topic Definitions

Columns 2 to 4 of 29 Rows 16 to 26 of 52

ΔTopic VName	ΔQMgr VName	ΔTopic VString	ΔTopic VType
SYSTEM.BROKER.ADMIN.STREAM	M71Y	SYSTEM.BROKER.ADMIN.STREAM	Local
SYSTEM.BROKER.ADMIN.STREAM	Q8G1	SYSTEM.BROKER.ADMIN.STREAM	Local
SYSTEM.BROKER.ADMIN.STREAM	Q721	SYSTEM.BROKER.ADMIN.STREAM	Local
SYSTEM.BROKER.ADMIN.STREAM	M90E	SYSTEM.BROKER.ADMIN.STREAM	Local
SYSTEM.BROKER.ADMIN.STREAM	M80A	SYSTEM.BROKER.ADMIN.STREAM	Local

Topics tab lists all defined topic objects.

KMQPLTPS Publish/Subscribe

QMgrStatus Subscriptions SubStatus Topics TopicStatus

Topic Status

Columns 2 to 8 of 22

ΔTopic VString	ΔQMgr VName	ΔPublisher VCount	ΔSubscriber VCount	ΔPub VEnabled	ΔSub VEnabled	ΔRetained VPub	ΔPub VScop
K.TEST	Q821	0	0	Yes	Yes	No	All
MYTEST	Q821	0	0	Yes	Yes	No	All
SYSTEM.BROKER.ADMIN.STREAM	M80A	0	0	Yes	Yes	No	All
SYSTEM.BROKER.ADMIN.STREAM	M90E	0	0	Yes	Yes	No	All
SYSTEM.BROKER.ADMIN.STREAM	Q8G1	0	0	Yes	Yes	No	All
SYSTEM.BROKER.ADMIN.STREAM	M71Y	0	0	Yes	Yes	No	All

TopicStatus tab lists status for highest level topic strings; options allow getting publisher, subscriber, and descendent topic status too.

Command ==>

KMQQLTAS

### Queue Summary

Queue Summary gives several tabs related to queues, such as for listing queues by type.

Alias Cluster Local Model Remote Tpipe Trigger Process

### Alias Queues

Columns 2 to 4 of 7 Rows 1 to 11 of 26

ΔQueue ▽Name	ΔQMgr ▽Name	ΔTarget ▽Object	ΔGet ▽Status
ABCQ_ALIAS	Q8G1	ABCQ	Enabled
ALIAS_ABCQ	Q721	ABCQ	Enabled
APP2_ALIAS_Q2	Q7G4	APP2.IN.Q2	Enabled
CICSDE03.B2.OUTPUT.ALIAS	Q721	CICSDE03.B3.MESSAGES	Enabled
CICSR41A.B2.OUTPUT.ALIAS	Q721	CICSR41A.B3.MESSAGES	Enabled

KMQQLTLS

### Queue Summary

QmgrName : \_\_\_\_\_

Alias Cluster Local Model Remote Tpipe Trigger Process

### Local Queues

Columns 2 to 8 of 17 Rows 1 to 11 of 4614

ΔQueue ▽Name	ΔQMgr ▽Name	ΔQueue ▽Usage	ΔCurrent ▽Depth	ΔInput ▽Opens	ΔOutput ▽Opens	ΔGet ▽Status	ΔPut ▽Status
javascript	Q721	Normal	7	0	0	Enabled	Enable
q1	M71Y	Normal	0	0	0	Enabled	Enable
A.PUB	M71Y	Normal	0	0	0	Enabled	Enable
ABC.QUEUE3	Q721	Normal	0	0	0	Enabled	Disabl
ABCQ	Q721	Normal	0	0	0	Enabled	Enable
ABCQ	Q8G1	Normal	0	0	0	Enabled	Enable

Typical options are available for queues, depending on type; a new option L has been added for useful MQ z/OS data for a queue.

Command ==> _____		Auto Update : <u>Off</u>
KMQQUTSS* _____		HostName : <u>SP22</u>
Local Queue Storage		QmgrName : <u>Q821</u>

Queue APMAPP_Q741	
Storage Class.....	DEFAULT
Page Set ID.....	04
Buffer Pool ID.....	03

Latest Statistics for Page Set 04		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Status.....	Availabl	Buffer Pool ID.....	03
Allocated Data Pages.....	296980	Buffers In Use.....	4174
Unused Pages.....	296160	% Buffer Pool In Use.....	20.8
% Pages In Use.....	0.2	Queues Assigned.....	43
Persistent Pages.....	37	Queue Messages.....	668
Non-Persistent Pages.....	783	Dataset Name.....	MQM.V800
Total Extents.....	46	Volume.....	MQM004
Extents Since Restart.....	0		

Latest Statistics for Buffer Pool 03		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
% of Bufrs Available.....	79.1	Low Buffer Synch Writes...	0
Number Buffers.....	20000	Asynch Writes Processing S	0
Available Buffers.....	15826	Low # Avail.....	15826
Updated Pgs/Wrt.....	0.0	Zero Bufrs Count.....	0
% Updated Pgs Written.....	0.0	Page Sets Assigned.....	1
DASD Page Reads/Sec.....	0.0	Queues Assigned.....	43
DASD Page Writes/Sec.....	0.0	GetPg IO %.....	0.0
Hash Chain Changes.....	0	% GetPg Outside Pool.....	0.0

Command ==> \_\_\_\_\_ HostName : \_\_\_\_\_  
 KMQLTPS \_\_\_\_\_ QmgrName : \_\_\_\_\_

**Queue Summary**

Alias Cluster Local Model Remote Tpipe Trigger Process

**Tpipe Queues**

Columns 2 to 4 of 4 Rows 1 to 11 of 30

ΔQueue VName	ΔQMGr VName	ΔTpipe VNames	ΔHost VName
CSQ4IVPG.TRIGGER	M90E	CS002002, CS802002	IP03
CSQ4IVPG.TRIGGER	Q8G1	CS002003, CS802003	SYS
CSQ4IVPG.TRIGGER	Q821	CS002003, CS802003	SP22
CSQ4IVPG.TRIGGER	Q921	CS003001, CS803001	SP22
MQV9.TEST.OTRAN	M90E	CS002004, CS802004	IP03

Tpipe names for IMS queues are now readily available.

Command ==> \_\_\_\_\_ HostName : \_\_\_\_\_  
 KMQLTIS \_\_\_\_\_ QmgrName : \_\_\_\_\_

**Queue Summary**

Alias Cluster Local Model Remote Tpipe Trigger Process

**MQ Process Definitions**

Columns 2 to 5 of 9 Rows 3 to 13 of 39

ΔProcess Name V	ΔQMGr VName	ΔApplication VIdentifier	ΔAppl VType	ΔUser Data V
CICSDE03.B4.MESSAGES.PROCESS	Q721	JVB4	CICS	
CICSDE03.B5.MESSAGES.PROCESS	Q721	JVB5	CICS	
CICSDE03.B8.MESSAGES.PROCESS	Q721	MCB5	CICS	
CICSR41A.B2.INQUIRY.PROCESS	Q721	JVB2	CICS	
CICSR41A.B3.MESSAGES.PROCESS	Q721	JVB3	CICS	
CICSR41A.B4.MESSAGES.PROCESS	Q721	JVB4	CICS	

Process information is also newly available.



Command ==> \_\_\_\_\_ HostName : \_\_\_\_\_  
 KMQQLTQS Queue Statistics QmgrName : \_\_\_\_\_

Statistics

Status

List queue statistics for queues in the set of queue managers.

Queue Statistics at Latest Sample

Columns 2 to 8 of 47

Rows 1 to 11 of 720

ΔQueue ▽Name	ΔQMgr ▽Name	ΔQueue ▽Usage	ΔMsgs ▽Put	ΔMsgs ▽Read	ΔMsgs Put ▽per Sec	ΔMsgs Read ▽per Sec	ΔLast ▽
javascript	Q721	Normal	0	0	0.0	0.0	n/a
q1	M71Y	Normal	0	0	0.0	0.0	n/a
A.PUB	M71Y	Normal	0	0	0.0	0.0	n/a
ABC.QUEUE3	Q721	Normal	0	0	0.0	0.0	n/a
ABCQ	Q721	Normal	0	0	0.0	0.0	n/a
ABCQ	Q8G1	Normal	0	0	0.0	0.0	n/a

KMQQLTQU Queue Statistics QmgrName : \_\_\_\_\_

Statistics

Status

Also list current status of queues with messages.

Current Queue Status for Queues with Messages

Columns 2 to 7 of 14

Rows 1 to 11 of 73

ΔQueue ▽Name	ΔQMgr ▽Name	ΔCurrent ▽Depth	ΔOldest ▽Msg Age	ΔShort Term ▽Queue Time	ΔLong Term ▽Queue Time	ΔLast Get ▽Date & Time
javascript	Q721	7	98147474	0	0	n/a
APM.S3.APP.IN.Q3	Q821	7556	1296945	588	405	06/27/17 14:4
CICS.JVT.TEST	Q721	10	86322719	0	0	n/a
ITML3TEST003	Q721	26	122693K	0	0	n/a
IT%L3TEST004	Q721	3	122693K	0	0	n/a

File Edit View Tools Navigate Help 07/12/2017 18:04:00

Command ==> KMQCLT1S

Channel Summary

Auto Update : 0f  
 HostName :  
 QmgrName :

Sdr Svr Rcvr Rqstr ClntConn SvrConn ClusRcvr ClusSdr

Sender Channels

Columns 2 to 7 of 11 Rows 1 to 11 of 35

ΔChannel VName	ΔConnection VName	ΔQMgr VName	ΔTransport VType	ΔBatch VSize	ΔMaximum VMsg Len	ΔXmitQ VName
- regression.test		M71Y	LU62	50	4194304	M71C
- APM.S1.Q721.TO.Q821	9.30.238.67 (21442)	Q721	TCP	50	4194304	APM.S1.XMIT.Q1
- APM.S2.Q721.TO.Q821	9.30.238.67 (21442)	Q721	TCP	50	4194304	APM.S2.XMIT.Q2
- APM.S3.Q721.TO.Q821	9.30.238.67 (21442)	Q721	TCP	50	4194304	APM.S3.XMIT.Q3
- APMAPP.Q721.TO.Q821	9.30.238.67 (21442)	Q721	TCP	50	4194304	APMAPP_Q821
- APMAPP.Q821.TO.M80E	9.42.6.247 (39888)	Q821	TCP	50	4194304	APMAPP_M80E
- APMAPP.Q821.TO.Q721	9.30.238.67 (21426)	Q821	TCP	50	4194304	APMAPP_Q721
- APMAPP.Q821.TO.Q741	9.30.238.65 (21434)	Q821	TCP	50	4194304	APMAPP_Q741
- AW3.Q7G4.TO.Q7G1	9.30.238.55 (21426)	Q7G4	TCP	50	4194304	APPW3.XMIT.Q3
- AW4.Q7G4.TO.Q7G1	9.30.238.55 (21426)	Q7G4	TCP	50	4194304	APPW4.XMIT.Q4
- AW7.Q7G4.TO.Q7G1	9.30.238.55 (21426)	Q7G4	TCP	50	4194304	APPW7.XMIT.Q7

Channel Summary has a tab for each type of channel. The usual options are available for channels to get to more data. An option to get to transmission queue status is now available where applicable.

Command ==> \_\_\_\_\_ HostName : \_\_\_\_\_  
 KMQCLTCS Channel Status QmgrName : \_\_\_\_\_

Current Inactive

Current Channel Connections

Columns 2 to 7 of 20 Rows 1 to 11 of 11

ΔChannel VName	ΔConnection VName	ΔQMGr VName	ΔChannel VStatus	ΔIn-Doubt VStatus	ΔUser Stop VRequest	ΔCurrent VState
CLUV8.Q8G1	WLAG (21442)	Q8G1	Stopped	Not In-Doubt	Stop Not Requested	Other
CLUV8.Q8G1	WLAG (21442)	Q821	Retrying	Not In-Doubt	Stop Not Requested	Other
Q7G1.TO.Q7G4	9.42.46.25 (4090)	Q721	Retrying	Not In-Doubt	Stop Not Requested	Other
Q721.TO.Q7G1	WLAG (21426)	Q721	Stopped	Not In-Doubt	Stop Not Requested	Other
S.TO.T	9.42.6.247 (3631)	M71Y	Retrying	Not In-Doubt	Stop Not Requested	Other
SYSTEM.ADMIN.SVRCONN	9.125.67.235	M90X	Running	n/a	Stop Not Requested	Recei

Get current status of channels for the queue managers in the list.

KMQCLTCI Channel Status QmgrName : \_\_\_\_\_

Current Inactive

Inactive Channels at Last Sample

Columns 2 to 6 of 6 Rows 12 to 22 of 151

ΔChannel VName	ΔConnection VName	ΔQMGr VName	ΔChannel VType	ΔChannel VStatus	ΔHost VName
APMAPP.Q721.TO.Q821		Q821	RCVR	Inactive	SP22
APMAPP.Q741.TO.Q721		Q721	RCVR	Inactive	SP22
APMAPP.Q741.TO.Q821		Q821	RCVR	Inactive	SP22
APMAPP.Q821.TO.M80E	9.42.6.247 (39888)	Q821	SDR	Inactive	SP22
APMAPP.Q821.TO.Q721	9.30.238.67 (21426)	Q821	SDR	Inactive	SP22

Also list the last set of channels determined to be inactive.

Command ==&gt;

HostName : \_\_\_\_\_

KMQSTQM2

## Queue Manager Health Overview

QmgrName : \_\_\_\_\_

Queue Manager Status											
Columns 2 to 11 of 27						Rows 1 to 11 of 11					
ΔQMgr ▽Name	ΔHost ▽Name	ΔSysplex ▽Name	ΔLPAR ▽Name	ΔQMgr ▽Health	ΔQueue ▽Health	ΔChannel ▽Health	ΔCurrent ▽MQEvents	ΔQMgr ▽Status	ΔChannel ▽Initiator	ΔCommand ▽Server	
Q7G1	SYS	LPAR400J	SYSG	Critical	Unknown	Unknown	0	Stopped	Stopped	Stopped	
s Q821	SP22	LPAR400J	SP22	Warning	Warning	Critical	0	Running	Running	Waiting	
Q8G1	SYS	LPAR400J	SYSG	Warning	OK	Critical	0	Running	Running	Waiting	
Q721	SP22	LPAR400J	SP22	Warning	Warning	Critical	0	Running	Running	Waiting	
M71Y	IP03	PLEX18		Warning	Warning	Critical	0	Running	Running	Waiting	
M90X	IP03	PLEX18		Warning	Warning	Critical	5	Running	Running	Waiting	
M90E	IP03	PLEX18		Warning	OK	Critical	1	Running	Running	Waiting	
Q7G4	SYS	LPAR400J	SYSG	OK	OK	OK	0	Running	Running	Waiting	
M80Z	IP03	PLEX18		OK	OK	OK	0	Running	Running	Waiting	
M80A	IP03	PLEX18		OK	OK	OK	0	Running	Running	Waiting	
Q921	SP22	LPAR400J	SP22	OK	OK	OK	0	Running	Running	Waiting	

The default select option is to see the health overview, but just for the queue managers in the list. Note that a given queue manager name is shown only once, with the running queue manager instance preferred. The typical list of options per queue manager is available.

Current Queue Manager Status is updated with tabs, more zoom fields, and log names are more clear with related 6/8 byte RBAs.

File Edit View Tools Navigate Help 07/12/2017 16:35:40  
 Command ==> KMQQMSTS Auto Update : Off  
 HostName : SP22  
 QmgrName : Q821

**Current Queue Manager Status**

Status Parameters System Log Archive Trace

☒ Queue Manager Health

QMgr Name.....	Q821	Host Name.....	SP22
QMgr Health.....	Warning	Connection Count.....	51
QMgr Status.....	Running	Channel Initiator Status..	Running
Command Server Status.....	Waiting	Current MQEvents.....	0

☒ Queue Health

Queue Health.....	Warning	DLQ Depth.....	52
High Depth Queue Count....	0	Put Inhibited Queue Count.	1
Total XMIT Queue Messages.	0	Get Inhibited Queue Count.	0
Total Messages.....	7640	Open Queue Count.....	12
Not Being Read Queue Count	0		

☒ Channel Health

Channel Health.....	Critical	Indoubt Connections.....	0
Current Not Running.....	1	Server Connections.....	0
Current Connections.....	1	% Max Channels.....	0.5
Active Connections.....	0	% Max Active Channels.....	0.0

Δ Active Log Copy 1		Δ Active Log Copy 2	
MQM.V800.Q821.LOGCOPY1.DS01		MQM.V800.Q821.LOGCOPY2.DS01	
Δ Oldest Active UOW Log		Δ Oldest Page Set Recovery Log	
MQM.V800.Q821.LOGCOPY1.DS01		MQM.V800.Q821.LOGCOPY1.DS03	
Δ UOWStartRBA-6	Δ UOWStartRBA-8	Δ RestartRBA-6	Δ RestartRBA-8
000000002B6D	000000002B6DDEC6	000000002AF6	000000002AF68270

BACK HOME Hub RTE1:CMS on platform IP03(z/OS)

Queue Manager

Status Parameters System

System Parameters -

CSQN205I COUNT= 39, RETURN  
CSQJ322I >Q821 DISPLAY SYSTEM rep  
Parameter Initial value

---

OPMODE NEWFUNC , 800  
LOGLOAD 500000  
CMDUSER CSQOPR  
QMCCSID 0  
ROUTCDE 1  
SMFACCT NO  
SMFSTAT YES  
STATIME 15  
OTMACON  
GROUP  
MEMBER  
DRUEXIT DFSYDRU0  
AGE 2147483647  
TPIPEPFX CSQ  
TRACSTR 1  
TRACTBL 99  
CONNSWAP YES  
EXITTCB 8

Queue Manager Parameters

Status Parameters System Log

Log Parameters - Display Command

CSQN205I COUNT= 26, RETURN=00000000  
CSQJ322I >Q821 DISPLAY LOG report ...  
Parameter Initial value SET value

---

INBUFF 60  
OUTBUFF 4000  
MAXRTU 2  
MAXARCH 500  
TWOACTV YES  
TWOARCH NO  
TWOBSDS YES  
OFFLOAD NO  
MAXCNOFF 31  
WRTHRS 20  
DEALLCT 0  
COMPLG NONE  
End of LOG report  
CSQJ370I >Q821 LOG status  
Copy %Full DSName  
1 72 MQM.V800.Q821  
2 72 MQM.V800.Q821  
Restarted at 2017-06-25

Tabs added to more easily display many MQ parameter settings for your z/OS queue manager

Queue Manager Parameters

Status Parameters System Log Archive Trace

Trace Parameters - Display Command Results

CSQN205I COUNT= 8, RETURN=00000000, REASON=00000000  
CSQW127I >Q821 CURRENT TRACE ACTIVITY IS -  
TNO TYPE CLASS DEST USERID RMID  
01 GLOBAL 01 RES \* \*  
02 STAT 01 SMF \* \*  
00 CHINIT \* RES \* \*  
END OF TRACE REPORT  
CSQ9022I >Q821 CSQWVCM1 ' DIS TRACE' NORMAL COMPLETION

Queue Manager Parameters

Status Parameters System Log Archive

Archive Parameters - Display Command

CSQN205I COUNT= 27, RETURN=00000000, REASON  
CSQJ322I >Q821 DISPLAY ARCHIVE report ...  
Parameter Initial value SET value

---

UNIT SYSALLDA  
UNIT2  
ALCUNIT BLK  
PRIQTY 25715  
SECQTY 540  
BLKSIZE 28672  
ARCPFX1 MQM.V800.Q821  
ARCPFX2 MQM.V800.Q8212  
TSTAMP NO  
ARCRETN 9999  
ARCWTOR YES  
ARCWRTC 1 ,3 ,4  
CATALOG YES  
COMPACT NO  
PROTECT NO  
QUIESCE 5  
End of ARCHIVE report  
CSQJ325I >Q821 ARCHIVE tape unit report ...  
Addr St CorrelID VolSer DSName  
-----  
No tape archive reading activity  
End of tape unit report  
CSQ9022I >Q821 CSQJC001 ' DIS ARCHIVE' NORMAL COMPLETION

## KMQDLQOP Dead Letter Queue Display Selection

Select an option for DLQ message display and then press ENTER

- 1 1. Display the Last N Messages (Most Recent Messages)  
LastN: 25
2. Display the First N Messages (Oldest Messages)  
FirstN: 25
3. Display All Messages
4. Display Messages within DLQ Put Date & Time Range in GMT

Time (24)      Date (MM/DD/YYYY)  
Start 16:19:26      07/12/2017  
End 18:19:26      07/12/2017

Number of messages limited by agent factors; transmit max 13,932

The Dead Letter Queue Messages option now prompts for which messages to display. Note that the Message Descriptor List option also has the same prompt.

Command ==>

KMQDLQLS

Dead Letter Queue Messages

HostName : SP22

QmgrName : Q821

DLQ Name..... Q821.DEA

DLQ Maximum..... 976562K

Dead Letter Queue Last 25 Message List

Columns 2 to 4 of 16

Rows 1 to 25 of 25

ΔDest. ▽QMgr	ΔDest. ▽Queue	ΔGMT DLQ Put ▽Date & Time	ΔReason ▽Code
— Q821	APM.S3.APP.IN.Q3	06/27/17 21:49:17	2051-Put Inhibited
— Q821	APM.S3.APP.IN.Q3	06/27/17 21:49:27	2051-Put Inhibited
— Q821	APM.S3.APP.IN.Q3	06/27/17 21:49:37	2051-Put Inhibited
— Q821	APM.S3.APP.IN.Q3	06/27/17 21:49:47	2051-Put Inhibited
— Q821	APM.S3.APP.IN.Q3	06/27/17 21:49:57	2051-Put Inhibited
— Q821	APM.S3.APP.IN.Q3	06/27/17 21:50:07	2051-Put Inhibited

The header clarifies which option was used. Note the DLQ reason code is easier to read now.

Command ==> \_\_\_\_\_ HostName : SP22  
 KMQQUTTS \_\_\_\_\_ QmgrName : Q821

### Queue Summary

Zoom on Queue Health to get to Queue Summary.

Alias

Cluster

Local

Model

Remote

Tpibe

Trigger

Process

Zoom on Queue Health to get to Queue Summary.

▼

Trigger Queues

Columns 2 to 6 of 21

←

→

↑

↓

Rows 1 to 11 of 14

ΔQueue ▽Name	ΔQueue ▽Type	ΔTrigger ▽Type	ΔTrigger ▽Depth	ΔTrigger ▽Priority	ΔProcess ▽Name
— APMAPP_M80E	Local	First	1	0	
— APMAPP_Q721	Local	First	1	0	
— APMAPP_Q741	Local	First	1	0	
— APPTTEST.OUT.Q1	Local	First	2	0	
— CSQ4IVPG.MODEL	Model	Depth	3	0	CSQ4IVPG
— CSQ4IVP1.MODEL	Model	Depth	3	0	CSQ4IVP1
— KAYTEST1	Local	First	1	0	CSQ4IVP1

Command ==> \_\_\_\_\_ HostName : SP22  
 KMQCNT8S \_\_\_\_\_ QmgrName : Q821

### Channel Summary

Zoom on Channel Health to get to Channel Summary.

Sdr	Svr	Rcvr	Rqstr	ClntConn	SvrConn	ClusRcvr	ClusSdr
Cluster-Receiver Channels							
Columns <u>2</u> to <u>8</u> of <u>10</u>					Rows <u>1</u> to <u>2</u> of <u>2</u>		
ΔChannel ▽Name	ΔConnection ▽Name	ΔCluster ▽	ΔTransport ▽Type	ΔBatch ▽Size	ΔMaximum ▽Msg Len	ΔAlter ▽Date & Time	ΔQSG ▽Dis
- CLUV8.Q821	SP22 (21442)	CLUV8	TCP	50	4194304	04/11/17 22:33:16	Qm
- SYSTEM.DEF.CLUSRCVR			LU62	50	4194304	01/12/15 08:38:32	Qm





Command ==> KMQMSLMD

Log Manager

HostName : IP03

QmgrName : M90X

Latest Log Manager SMF Sample

Active Log Dataset Name...	MQS900X.	Archive Delay Due to Max T	0
% Current Active Log Full.	36.0	Archive Delay Unavail Reso	0
Active Log Copy 2 Dataset	MQS900X.	Lookahead Tape Mounts.....	0
% Current Active Log Copy	36.0	% Failed Lookahead Tape Mo	0.0
Logging Suspended.....	No	Busy Archive Tapes.....	0
Archiving Quiesced.....	No	% of Busy Tape Units.....	0.0
Offload Task Status.....	Availabl	Log Write Request Per Min.	25.2
Full Logs To Offload.....	0	Log Write CI Per Min.....	25.2
Active Logs Available.....	8	Log Wr Req for CI Rewrite/	0.0
Checkpoints.....	0	Compression Request Per Mi	0.0
Log Write Threshold.....	0	Compression Failure Per Mi	0.0
Log Write Buffer Pagein...	0	Uncompressed KB Before Com	0
Write Requests Suspended..	52	Compressed KB After Compre	0
Zero Bufr Waits.....	0	Decompression Request Per	0.0
Arch Log Read %.....	0.0	Decompression Failure Per	0.0
% Rd Log Delayed.....	0.0	Uncompressed KB After Deco	0
Read Log Per Min.....	0.0	Compressed KB Before Decom	0
Write Log Per Min.....	70.2	Log Copy 1 One-CI Writes..	63
Log Copy 2 One-CI Writes..	63	Log Copy 1 One-CI Count...	63
Log Copy 2 One-CI Count...	63	Log Copy 1 One-CI Total IO	0
Log Copy 2 One-CI Total IO	0	Log Copy 1 One-CI Total Su	0
Log Copy 2 One-CI Total Su	0	Log Copy 1 One-CI Max IO T	0
Log Copy 2 One-CI Max IO T	0	Log Copy 1 One-CI Max Susp	0
Log Copy 2 One-CI Max Susp	0	Log Copy 1 Multi-CI Writes	0
Log Copy 2 Multi-CI Writes	0	Log Copy 1 Multi-CI Count.	0
Log Copy 2 Multi-CI Count.	0	Log Copy 1 Multi-CI Total	0
Log Copy 2 Multi-CI Total	0	Log Copy 1 Multi-CI Total	0
Log Copy 2 Multi-CI Total	0	Log Copy 1 Multi-CI Max IO	0
Log Copy 2 Multi-CI Max IO	0	Log Copy 1 Multi-CI Max Su	0
Log Copy 2 Multi-CI Max Su	0		

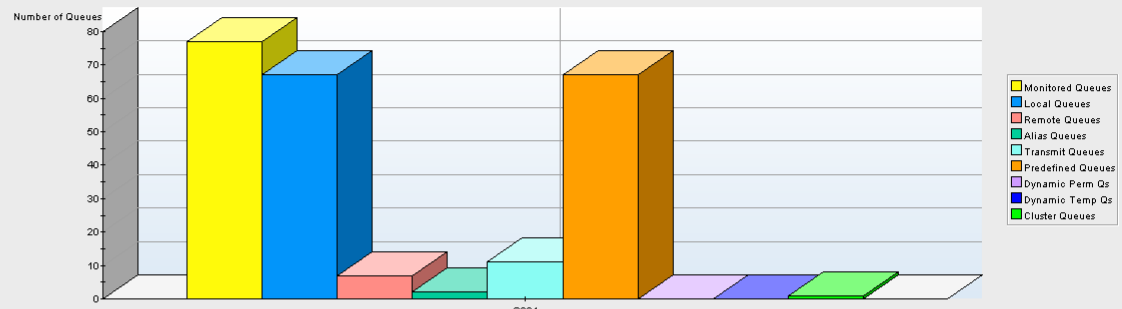
Recent Log Manager SMF Samples

Columns 2 to 6 of 61

Rows 1 to 9 of 15

Several more statistics attributes are available for the Log Manager.

**TEP workspaces are updated with all the new attributes.**



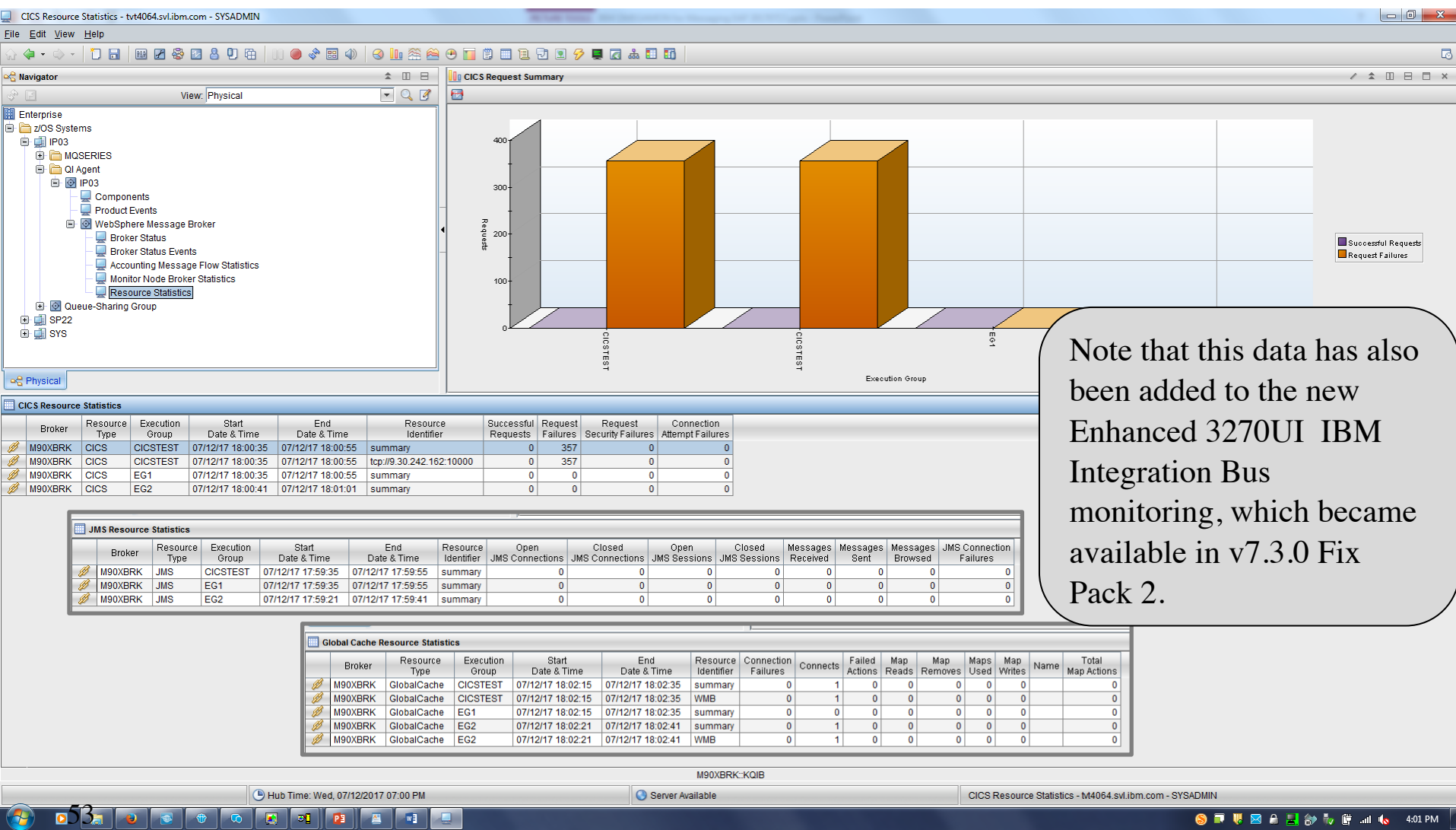
Process Information is an alternative workspace in Queue Definitions.

The screenshot displays the IBM MQ Explorer application. The top menu bar includes File, Edit, View, and Help. Below the menu is a toolbar with various icons for file operations and navigation. The main window is divided into three panes:

- Navigator (Left):** Shows a tree view of the MQ environment. The 'Queue Definitions' folder is selected, showing a list of queues including Q921 and WMQX. The 'Physical' view is active.
- Message Log (Right):** Displays a table of messages. The table has columns for Status, Name, Display Item, and Origin. Messages include 'log\_manager' (Stopped), 'TEST\_1' (Open/Stopped), and 'MQSeries\_MQ\_Channel\_Stopped' (Stopped).
- Process Information (Bottom):** A table showing the status of various processes. The table has columns for Process Name, Description, Application Identifier, Appl Type, Alter Date & Time, User Data, Environment Data, and QSG Disp.

Process Name	Description	Application Identifier	Appl Type	Alter Date & Time	User Data	Environment Data	QSG Disp
CSQ4IVPG	WebSphere MQ IVP PROCESS	CSQ4IVPG	MVS	03/02/17 15:49:28	INSTALLATION VERIFICATION PROCEDURE		Copy
CSQ4IVP1	WebSphere MQ IVP PROCESS	CSQ4IVP1	MVS	07/06/16 19:46:07	INSTALLATION VERIFICATION PROCEDURE		Qmgr
SYSTEM.DEFAULT.PROCESS			CICS	01/12/15 08:38:32			Qmgr





Note that this data has also been added to the new Enhanced 3270UI IBM Integration Bus monitoring, which became available in v7.3.0 Fix Pack 2.

# Questions & Answers

