

WebSphere MQ



Script (MQSC) Command Reference

Note!

Before using this information and the product it supports, be sure to read the general information under “Notices”, on page 347.

Fourth edition (March 2003)

| This edition applies to the following WebSphere MQ V5.3.1 product:

- | • WebSphere MQ for z/OS

| It also applies to the following WebSphere MQ V5.3 products:

- | • WebSphere MQ for AIX
- | • WebSphere MQ for HP-UX
- | • WebSphere MQ for iSeries
- | • WebSphere MQ for Linux for Intel
- | • WebSphere MQ for Linux for zSeries
- | • WebSphere MQ for Solaris
- | • WebSphere MQ for Windows

| Unless otherwise stated, the information also applies to these products:

- | • MQSeries for AT&T GIS UNIX, V2.2
- | • MQSeries for Compaq NonStop Kernel, V5.1
- | • MQSeries for Compaq OpenVMS Alpha, V5.1
- | • MQSeries for Compaq Tru64 UNIX, V5.1
- | • MQSeries for SINIX and DC/OSx, V2.2
- | • MQSeries for Sun Solaris, Intel Platform Edition, V5.1

| Editions of this book before WebSphere MQ for z/OS Version 5 Release 3 were entitled *MQSeries MQSC Command reference*, SC33-1369-13.

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About this book

This book describes the MQSC commands, which system operators and administrators can use to manage queue managers on the following IBM® WebSphere® MQ platforms:

- Compaq NSK
- Compaq OpenVMS
- OS/2® Warp
- OS/400®
- UNIX® operating systems
- Windows®
- z/OS™

The commands are described in alphabetic order in Chapter 2, “The MQSC commands”, on page 11. At the start of each command description, the platforms on which you can use the command are shown.

The term UNIX systems is used to denote the following UNIX operating systems, unless otherwise stated:

- AIX®
- AT&T GIS (NCR) UNIX
- Compaq Tru64 UNIX
- HP-UX
- Linux (for Intel and zSeries™)
- SINIX and DC/OSx
- Solaris (SPARC and Intel Platform Editions)

The term Windows is used throughout this book to denote the following Windows operating systems, unless stated otherwise:

- Windows NT®
- Windows 2000
- Windows XP

z/OS means any release of z/OS or OS/390® that supports the current version of WebSphere MQ.

Who this book is for

This book is intended for system programmers, system administrators, and system operators.

What you need to know to understand this book

To understand this book, you should be familiar with the system facilities for the platform on which you are using the WebSphere MQ product.

If you are unfamiliar with the concepts of messaging and queuing, you should read *An Introduction to Messaging and Queuing*.

How to use this book

For platforms other than z/OS, read those sections of the WebSphere MQ *Administration Guide*, *System Management Guide*, or *System Administration* book for your platform that relate to the task you want to perform.

For z/OS, read the sections of the *WebSphere MQ for z/OS System Administration Guide*, *WebSphere MQ for z/OS System Setup Guide*, or both that relate to the task you want to perform.

When you have decided which commands you need to use, use this book to learn their syntax.

The syntax of the MQSC commands is represented in *syntax diagrams*. To learn how to read these diagrams, see “How to read syntax diagrams” on page 8. The parameters for each command are listed in the following order in the syntax diagrams:

- Parameters that are required are listed first, in alphabetic order.
- Parameters that are optional follow, again in alphabetic order.

WebSphere MQ for z/OS for the WebSphere Application Server user

As explained in *WebSphere MQ for z/OS Concepts and Planning Guide*, WebSphere MQ for z/OS Version 5 Release 3.1 provides JMS support for WebSphere Application Server embedded messaging. Embedded messaging is implemented by WebSphere Application Server using either the supplied WebSphere MQ for z/OS Version 5 Release 3.1 reduced function queue manager, or a WebSphere MQ for z/OS Version 5 Release 3.1 full function queue manager.

The list below summarizes the functions that are not available in the the reduced function form of WebSphere MQ for z/OS supplied with WebSphere Application Server:

- Queue sharing groups
- Clusters
- Channels other than server-connection channels
- TCP types other than OESOCKET
- LU62 communications
- Events
- CICS, IMS, or RRS connection
- IMS bridge

Elsewhere in this book, we identify the commands that are unavailable or restricted in the reduced function form of WebSphere MQ for z/OS supplied with WebSphere Application Server.

Summary of changes

This section describes changes in this edition of *WebSphere MQ Script (MQSC) Command Reference*. Changes since the previous edition of the book are marked by vertical lines to the left of the changes.

Changes for this edition (SC34-6055-03)

- The main change in this edition is the addition of information for users of WebSphere Application Server Version 5, as explained in “WebSphere MQ for z/OS for the WebSphere Application Server user” on page x.
- Information has been added to clarify how to issue commands in z/OS.
- The TRACE commands, ALTER, DISPLAY, START, and STOP have been changed to improve the way that channel initiator traces are handled.

Changes for the previous edition (SC34-6055-02)

This edition provides additions and clarifications for users of Version 5.1 of MQSeries® for Compaq NonStop Kernel, MQSeries for Compaq OpenVMS Alpha, and MQSeries for Compaq Tru64 UNIX.

Changes for the earlier editions (SC34-6055-00 and -01)

The changes to the first two editions of this book include:

- Changes throughout the book to reflect the rebranding of MQSeries to WebSphere MQ.
- Adding the platforms Windows XP, Linux for zSeries, and Linux for Intel.
- Adding the following new commands to support Secure Sockets Layer (SSL) support, which was added to WebSphere MQ:
 - ALTER AUTHINFO
 - DEFINE AUTHINFO
 - DELETE AUTHINFO
 - DISPLAY AUTHINFO
- WebSphere MQ for z/OS now supports persistent shared queue messages that can survive the failure of a Coupling Facility (CF) list structure. To enable this function, changes have been made to the DISPLAY USAGE command, and the following new commands have been created:
 - ALTER CFSTRUCT
 - BACKUP CFSTRUCT
 - DEFINE CFSTRUCT
 - DELETE CFSTRUCT
 - DISPLAY CFSTRUCT
 - DISPLAY CFSTATUS
 - RECOVER CFSTRUCT
- WebSphere MQ for z/OS now allows you to change the queue manager systems parameters dynamically. The SET LOG and DISPLAY LOG commands have changed, and the following new commands have been added to support this feature:

Chapter 1. Using MQSC commands

MQSC commands provide a uniform method of issuing human-readable commands on WebSphere MQ platforms. For information about *programmable command format* (PCF) commands (not available on z/OS), see the *WebSphere MQ Programmable Command Formats and Administration Interface* manual.

This chapter describes:

- “Rules for using MQSC commands”
- “Rules for naming WebSphere MQ objects” on page 4
- “How to read syntax diagrams” on page 8

The general format of the commands is shown in Chapter 2, “The MQSC commands”, on page 11.

Rules for using MQSC commands

You should observe the following rules when using MQSC commands:

- Each command starts with a primary parameter (a verb), and this is followed by a secondary parameter (a noun). This is then followed by the name or generic name of the object (in parentheses) if there is one, which there is on most commands. Following that, parameters can usually occur in any order; if a parameter has a corresponding value, the value must occur directly after the parameter to which it relates.

Note: On z/OS, the secondary parameter does not have to be second.

- Keywords, parentheses, and values can be separated by any number of blanks and commas. A comma shown in the syntax diagrams can always be replaced by one or more blanks. There must be at least one blank immediately preceding each parameter (after the primary parameter) except on z/OS.
- Any number of blanks can occur at the beginning or end of the command, and between parameters, punctuation, and values. For example, the following command is valid:

```
ALTER QLOCAL ('Account' )          TRIGDPTH ( 1)
```

Blanks within a pair of quotation marks are significant.

- Additional commas can appear anywhere where blanks are allowed and are treated as if they were blanks (unless, of course, they are inside quoted strings).
- Repeated parameters are not allowed. Repeating a parameter with its ‘NO’ version, as in REPLACE NOREPLACE, is also not allowed.
- Strings that contain blanks, lowercase characters or special characters other than:
 - Period (.)
 - Forward slash (/)
 - Underscore (_)
 - Percent sign (%)

must be enclosed in single quotation marks, unless they are:

- Issued from the WebSphere MQ for z/OS operations and control panels
- Generic names ending with an asterisk (on OS/400 these must be enclosed in single quotation marks)

Rules for using commands

- A single asterisk (for example, TRACE(*)) (on OS/400 these must be enclosed in single quotation marks)
- A range specification containing a colon (for example, CLASS(01:03))

If the string itself contains a quotation mark, the quotation mark is represented by two single quotation marks. Lowercase characters not contained within quotation marks are folded to uppercase.

- On platforms other than z/OS, a string containing no characters (that is, two single quotation marks with no space in between) is interpreted as a quoted blank space, in other words, (' ') is interpreted in the same way as (' '). On z/OS, if you want a quoted blank space, you must enter it as such (' '). A string containing no characters (' ') is the same as entering (), the rules for which are explained below.
- A left parenthesis followed by a right parenthesis, with no significant information in between, for example
NAME ()

is not valid except where specifically noted.

- Keywords are not case sensitive – AltER, alter, and ALTER are all acceptable. Names that are not contained within quotation marks are folded to uppercase.
- Synonyms are defined for some parameters. For example, DEF is always a synonym for DEFINE, so DEF QLOCAL is valid. Synonyms are not, however, just minimum strings; DEFI is not a valid synonym for DEFINE.

Note: There is no synonym for the DELETE parameter. This is to avoid accidental deletion of objects when using DEF, the synonym for DEFINE.

Characters with special meanings

The following characters have special meaning when you build MQSC commands:

	Blanks are used as separators. Multiple blanks are equivalent to a single blank, except in strings that have quotation marks (') round them.
,	Commas are used as separators. Multiple commas are equivalent to a single comma, except in strings that have quotation marks (') round them.
'	A single quotation mark indicates the beginning or end of a string. WebSphere MQ leaves all characters that have quotation marks round them exactly as they are entered. The containing quotation marks are not included when calculating the length of the string.
"	Two quotation marks together inside a string are treated by WebSphere MQ as one quotation mark, and the string is not terminated. The double quotation marks are treated as one character when calculating the length of the string.
(An open parenthesis indicates the beginning of a parameter list.
)	A close parenthesis indicates the end of a parameter list.
:	A colon indicates an inclusive range. For example (1:5) means (1,2,3,4,5). This notation can be used only in TRACE commands.
*	An asterisk means "all". For example, DISPLAY TRACE (*) means display all traces, and DISPLAY QUEUE (PAY*) means display all queues whose names begin with PAY.

When you need to use any of these special characters in a field (for example as part of a description), you must enclose the whole string in single quotation marks.

Building command scripts

You might want to build the MQSC commands into a script when you use:

- The CSQINP1, CSQINP2, and CSQINPX initialization data sets or the CSQUTIL batch utility on z/OS
- The MQSC STRMQM command on OS/400
- The **runmqsc** command on Compaq OpenVMS, Compaq NSK, Linux, OS/2 Warp, UNIX systems, and Windows

When you do this, follow these rules:

- Each command must start on a new line.
- On each platform, there might be platform-specific rules about the line length and record format. If scripts are to be readily portable to different platforms, the significant length of each line should be restricted to 72 characters.
 - On z/OS, scripts are held in a fixed-format data set, with a record length of 80. Only columns 1 through 72 can contain meaningful information; columns 73 through 80 are ignored.
 - On AIX, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, and Windows, each line can be of any length up to the maximum allowed for your platform, as determined by the value of BUFSIZ in `stdio.h`.
 - On other UNIX systems, and Compaq OpenVMS, each line can be of any length up to and including 80 characters.
 - On Compaq NSK each line can be of any length up to and including 72 characters.
- A line must not end in a keyboard control character (for example, a tab).
- If the last nonblank character on a line is:
 - A minus sign (-), this indicates that the command is to be continued from the start of the next line.
 - A plus sign (+), this indicates that the command is to be continued from the first nonblank character in the next line. If you use + to continue a command remember to leave at least one blank before the next parameter (except on z/OS where this is not necessary).

Either of these can occur within a parameter, data value, or quoted string. For example,

```
'Fr+
ed'
```

and

```
'Fr-
ed'
```

(where the 'e' of the second line of the second example is in the first position of the line) are both equivalent to

```
'Fred'
```

MQSC commands that are contained within an Escape PCF (Programmable Command Format) command cannot be continued in this way. The entire command must be contained within a single Escape command. (For information about the PCF commands, see the *WebSphere MQ Programmable Command Formats and Administration Interface* manual.)

- + and - values used at the ends of lines are discarded when the command is reassembled into a single string.

Rules for using commands

- On AIX, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, and Windows you can use a semicolon character (;) to terminate a command, even if you have entered a plus sign (+) at the end of the previous line. You can also use the semicolon in the same way on z/OS for commands issued from the CSQUTIL batch utility program.
- A line starting with an asterisk (*) in the first position is ignored. This can be used to insert comments into the file.
A blank line is also ignored.
If a line ends with a continuation character (- or +), the command continues with the next line that is not a comment line or a blank line.
- When running MQSC commands interactively, you end the interactive session by typing the END command. This applies to:
 - Windows and UNIX systems, where you start the interactive session by entering **runmqsc**
 - OS/400 systems, where you start the interactive session from the WRKMWM panel

Using commands in z/OS

As described in the *WebSphere MQ for z/OS Concepts and Planning Guide*, commands can be issued from:

- The z/OS console or equivalent
- The initialization input data sets CSQINP1, CSQINP2, and CSQINPX
- The CSQUTIL batch utility
- Suitably authorized applications, sending commands as messages to the SYSTEM.COMMAND.INPUT queue

However, not all commands can be issued from all these sources. Commands can be classified according to whether they can be issued from:

- | | |
|---|---|
| 1 | CSQINP1 |
| 2 | CSQINP2 |
| C | The z/OS console |
| R | The command server and command queue, by means of CSQUTIL, CSQINPX, or applications |

Within the command descriptions that follow, these sources are identified by the use of the characters 1, 2, C, and R respectively in the z/OS column of the table at the top of each command description.

Rules for naming WebSphere MQ objects

WebSphere MQ queue, process, namelist, channel, and storage class objects exist in separate object *name spaces*, and so objects from each type can all have the same name. However, an object cannot have the same name as any other object in the same name space. (For example, a local queue cannot have the same name as a model queue.) Names in WebSphere MQ are case sensitive; however, you should remember that lowercase characters that are not contained within quotation marks are folded to uppercase.

The character set that can be used for naming all WebSphere MQ objects is as follows:

- Uppercase A–Z

Rules for naming objects

- Lowercase a–z (however, on systems using EBCDIC Katakana you cannot use lowercase characters, and there are also restrictions on the use of lowercase letters for z/OS console support)
- Numerics 0–9
- Period (.)
- Forward slash (/)
- Underscore (_)
- Percent sign (%). The percent sign (%) is a special character to RACF®. If you are using RACF as the external security manager for WebSphere MQ for z/OS, you should not use % in object names. If you do, these names are not included in any security checks when RACF generic profiles are used.

Notes:

1. Leading or embedded blanks are not allowed.
2. Avoid using names with leading or trailing underscores, because they cannot be handled by the WebSphere MQ for z/OS operations and control panels.
3. Any name that is less than the full field length can be padded to the right with blanks. All short names that are returned by the queue manager are always padded to the right with blanks.
4. Any structure to the names (for example, the use of the period or underscore) is not significant to the queue manager.
5. When using CL commands or menus on OS/400 systems, lowercase a-z, forward slash (/), and percent (%) are special characters. If you use any of these characters in a name, the name must be enclosed in quotation marks. Lowercase a-z characters are changed to uppercase if the name is not enclosed in quotation marks.

Queue names

Queues can have names up to 48 characters long.

Reserved queue names

Names that start with "SYSTEM." are reserved for queues defined by the queue manager. You can use the ALTER or DEFINE REPLACE commands to change these queue definitions to suit your installation. The following names are defined for WebSphere MQ:

SYSTEM.ADMIN.CHANNEL.EVENT	Queue for channel events
SYSTEM.ADMIN.COMMAND.QUEUE	Queue to which PCF command messages are sent (not for z/OS)
SYSTEM.ADMIN.CONFIG.EVENT	Queue for configuration events
SYSTEM.ADMIN.PERFM.EVENT	Queue for performance events
SYSTEM.ADMIN.QMGR.EVENT	Queue for queue manager events
SYSTEM.AUTH.DATA.QUEUE	The queue that holds access control lists for the queue manager. (Not for z/OS)
SYSTEM.CHANNEL.COMMAND	Queue used for distributed queuing on z/OS using CICS®
SYSTEM.CHANNEL.INITQ	Queue used for distributed queuing on z/OS without CICS
SYSTEM.CHANNEL.SEQNO	Queue used for distributed queuing on z/OS using CICS

Rules for naming objects

SYSTEM.CHANNEL.SYNCQ	Queue used for distributed queuing on z/OS without CICS
SYSTEM.CICS.INITIATION.QUEUE	Queue used for triggering (not for z/OS)
SYSTEM.CLUSTER.COMMAND.QUEUE	Queue used to communicate repository changes between queue managers (AIX, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS only)
SYSTEM.CLUSTER.REPOSITORY.QUEUE	Queue used to hold information about the repository (AIX, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS only)
SYSTEM.CLUSTER.TRANSMIT.QUEUE	Transmission queue for all destinations managed by cluster support (AIX, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS only)
SYSTEM.COMMAND.INPUT	Queue to which command messages are sent on z/OS
SYSTEM.COMMAND.REPLY.MODEL	Model queue definition for command replies (for z/OS)
SYSTEM.DEAD.LETTER.QUEUE	Dead-letter queue (not for z/OS)
SYSTEM.DEFAULT.ALIAS.QUEUE	Default alias queue definition
SYSTEM.DEFAULT.INITIATION.QUEUE	Queue used to trigger a specified process (not for z/OS)
SYSTEM.DEFAULT.LOCAL.QUEUE	Default local queue definition
SYSTEM.DEFAULT.MODEL.QUEUE	Default model queue definition
SYSTEM.DEFAULT.REMOTE.QUEUE	Default remote queue definition
SYSTEM.MQSC.REPLY.QUEUE	Model queue definition for MQSC command replies (not for z/OS)
SYSTEM.QSG.CHANNEL.SYNCQ	Shared local queue used for storing messages that contain the synchronization information for shared channels (z/OS only)
SYSTEM.QSG.TRANSMIT.QUEUE	Shared local queue used by the intra-group queuing agent when transmitting messages between queue managers in the same queue-sharing group (z/OS only)

Other object names

Processes, namelists, clusters, and authentication information objects can have names up to 48 characters long. Channels can have names up to 20 characters long. Storage classes can have names up to 8 characters long.

Reserved object names

Names that start with "SYSTEM." are reserved for objects defined by the queue manager. You can use the ALTER or DEFINE REPLACE commands to change these object definitions to suit your installation. The following names are defined for WebSphere MQ:

SYSTEM.ADMIN.SVRCONN	Server-connection channel used for remote administration of a queue manager by the WebSphere MQ Explorer (remote administration is not available on z/OS)
----------------------	---

Rules for naming objects

SYSTEM.AUTO.RECEIVER	Default receiver channel for auto definition (AIX, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, and Windows only)
SYSTEM.AUTO.SVRCONN	Default server-connection channel for auto definition (AIX, HP-UX, Linux, OS/2 Warp, z/OS, OS/400, Solaris, and Windows only)
SYSTEM.DEF.CLNTCONN	Default client-connection channel definition
SYSTEM.DEF.CLUSRCVR	Default cluster-receiver channel definition (AIX, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS only)
SYSTEM.DEF.CLUSSDR	Default cluster-sender channel definition (AIX, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS only)
SYSTEM.DEF.RECEIVER	Default receiver channel definition
SYSTEM.DEF.REQUESTER	Default requester channel definition
SYSTEM.DEF.SENDER	Default sender channel definition
SYSTEM.DEF.SERVER	Default server channel definition
SYSTEM.DEF.SVRCONN	Default server-connection channel definition
SYSTEM.DEFAULT.AUTHINFO.CRLLDAP	Default authentication information definition
SYSTEM.DEFAULT.NAMELIST	Default namelist definition (AIX, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS only)
SYSTEM.DEFAULT.PROCESS	Default process definition
SYSTEMST	Default storage class definition (z/OS only)

How to read syntax diagrams

This book contains syntax diagrams (sometimes referred to as “railroad” diagrams).

Each syntax diagram begins with a double right arrow and ends with a right and left arrow pair. Lines beginning with a single right arrow are continuation lines. You read a syntax diagram from left to right and from top to bottom, following the direction of the arrows.

Other conventions used in syntax diagrams are:

Table 1. How to read syntax diagrams

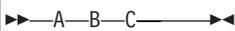
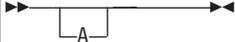
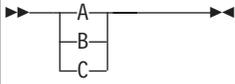
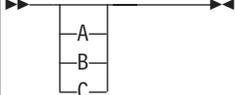
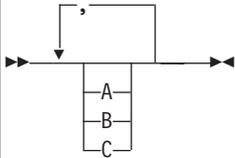
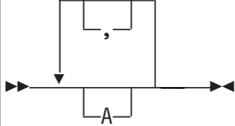
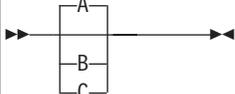
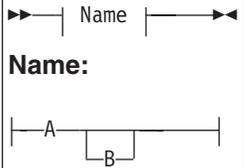
Convention	Meaning
	You must specify values A, B, and C. Required values are shown on the main line of a syntax diagram.
	You may specify value A. Optional values are shown below the main line of a syntax diagram.
	Values A, B, and C are alternatives, one of which you must specify.
	Values A, B, and C are alternatives, one of which you might specify.
	You might specify one or more of the values A, B, and C. Any required separator for multiple or repeated values (in this example, the comma (,)) is shown on the arrow.
	You might specify value A multiple times. The separator in this example is optional.
	Values A, B, and C are alternatives, one of which you might specify. If you specify none of the values shown, the default A (the value shown above the main line) is used.

Table 1. How to read syntax diagrams (continued)

Convention	Meaning
 <p>The first diagram shows the word "Name" between two vertical bars, with arrows pointing outwards from each bar. Below it, the word "Name:" is written. The second diagram shows a larger structure with a vertical bar on the left, a horizontal line labeled "A", a vertical line labeled "B" connected to the horizontal line, and a vertical bar on the right.</p>	<p>The syntax fragment Name is shown separately from the main syntax diagram.</p>
<p>Punctuation and uppercase values</p>	<p>Specify exactly as shown.</p>
<p>Lowercase values (for example, <i>name</i>)</p>	<p>Supply your own text in place of the <i>name</i> variable.</p>

Syntax diagrams

Chapter 2. The MQSC commands

This chapter describes, in alphabetic order, all the MQSC commands that can be issued by operators and administrators.

ALTER AUTHINFO

ALTER AUTHINFO

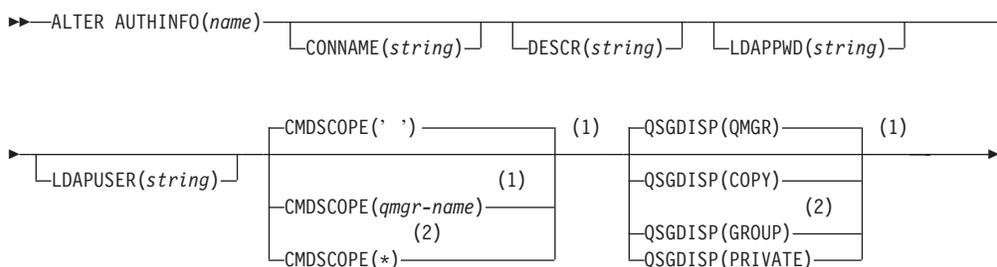
Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
		✓		✓	✓	2CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use ALTER AUTHINFO to alter an authentication information object. These objects contain the definitions required to perform Certificate Revocation List (CRL) checking using LDAP servers.

Synonym: ALT AUTHINFO

ALTER AUTHINFO



Notes:

- 1 Valid only on z/OS.
- 2 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.

Parameter descriptions

For a description of the parameters see “DEFINE AUTHINFO” on page 66.

ALTER CFSTRUCT

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
						2CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use ALTER CFSTRUCT to alter the CF application structure backup and recovery parameters for any specified application structure.

Notes:

1. This command cannot specify the CF administration structure (CSQ_ADMIN).
2. This command is valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.

Synonym: ALT CFSTRUCT

ALTER CFSTRUCT

```

▶▶ALTER CFSTRUCT(structure-name)
└──CFLEVEL(integer)└──DESCR(string)└──
▶
└──RECOVER(└──NO└──YES)└──

```

Keyword and parameter descriptions

For a description of the parameters see “DEFINE CFSTRUCT” on page 71.

ALTER CHANNEL

ALTER CHANNEL

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
✓	✓	✓	✓	✓	✓	2CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Note:

Use ALTER CHANNEL to alter the parameters of a channel.

Notes:

1. On z/OS, this command is valid only for channels used for distributed queuing without CICS. If you are using CICS for distributed queuing, the equivalent function is available using the CKMC transaction. See the *WebSphere MQ Intercommunication* manual.
2. In general, this command is not available within the reduced function form of WebSphere MQ for z/OS supplied with WebSphere Application Server. The only channels supported in that environment are server-connection channels, the ALTER command for which is described in “Server-connection channel” on page 26.
3. For cluster-sender channels, you can only alter channels that have been created manually.
4. If you change the XMITQ name or the CONNAME, you must reset the sequence number at both ends of the channel. (See “RESET CHANNEL” on page 286 for information about the SEQNUM parameter.)

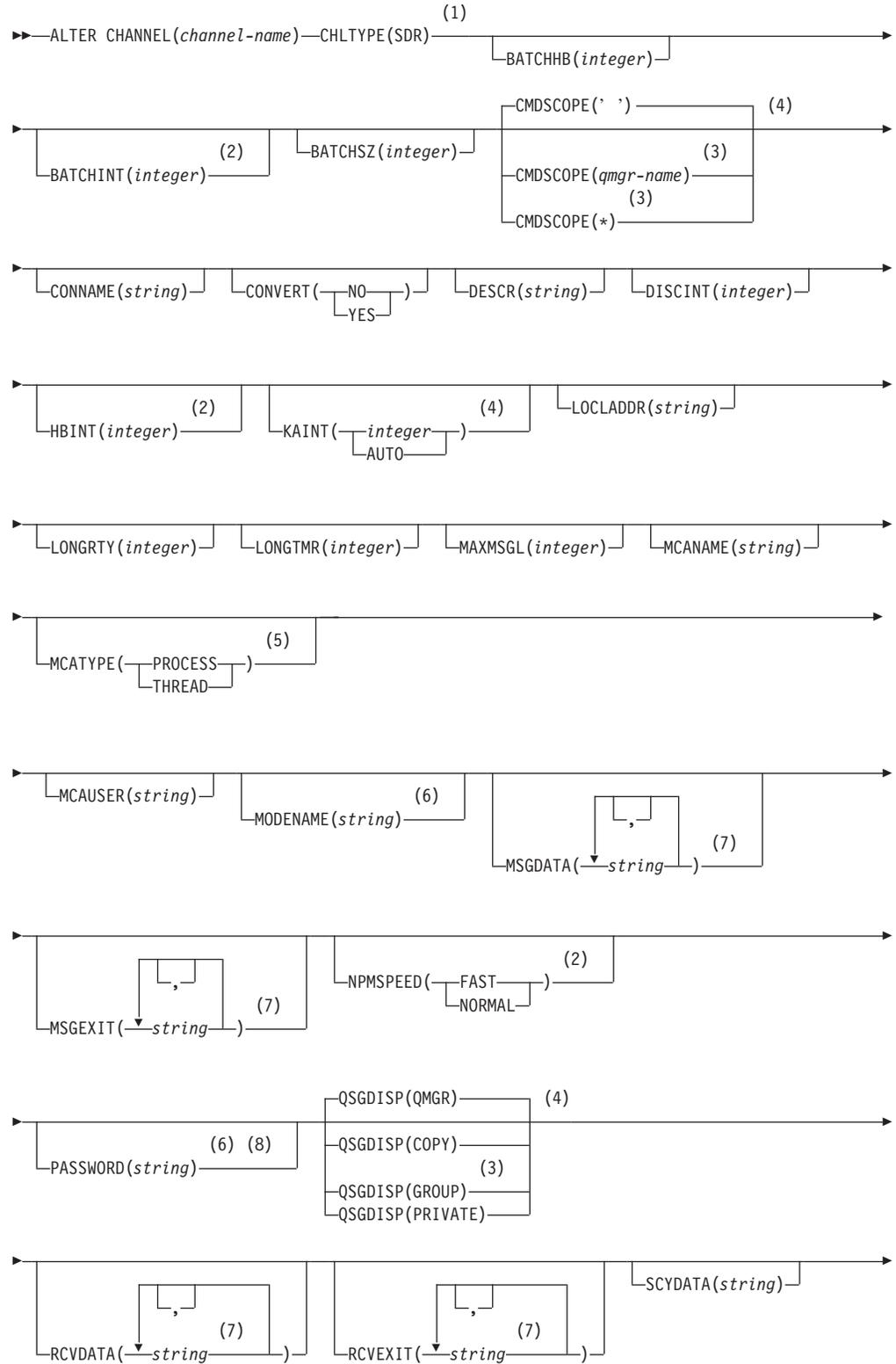
Synonym: ALT CHL

There is a separate syntax diagram for each type of channel:

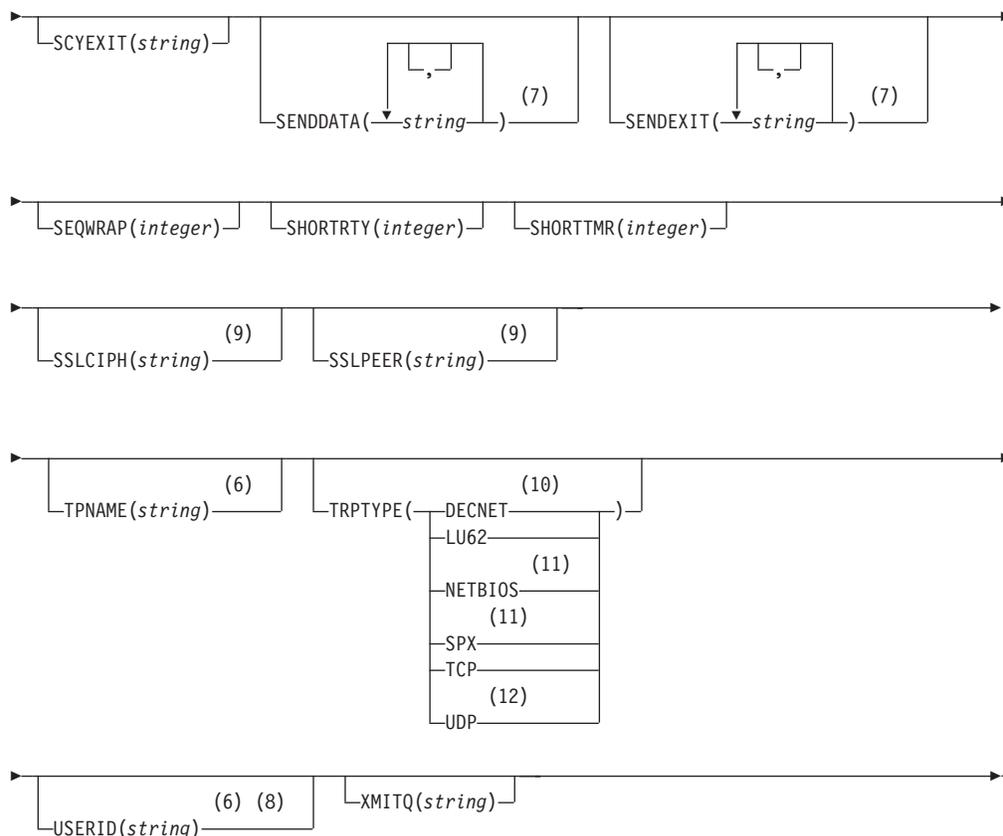
- “Sender channel” on page 15
- “Server channel” on page 17
- “Receiver channel” on page 19
- “Requester channel” on page 21
- “Client-connection channel” on page 24
- “Server-connection channel” on page 26
- “Cluster-sender channel” on page 28
- “Cluster-receiver channel” on page 30

Sender channel

ALTER CHANNEL



ALTER CHANNEL

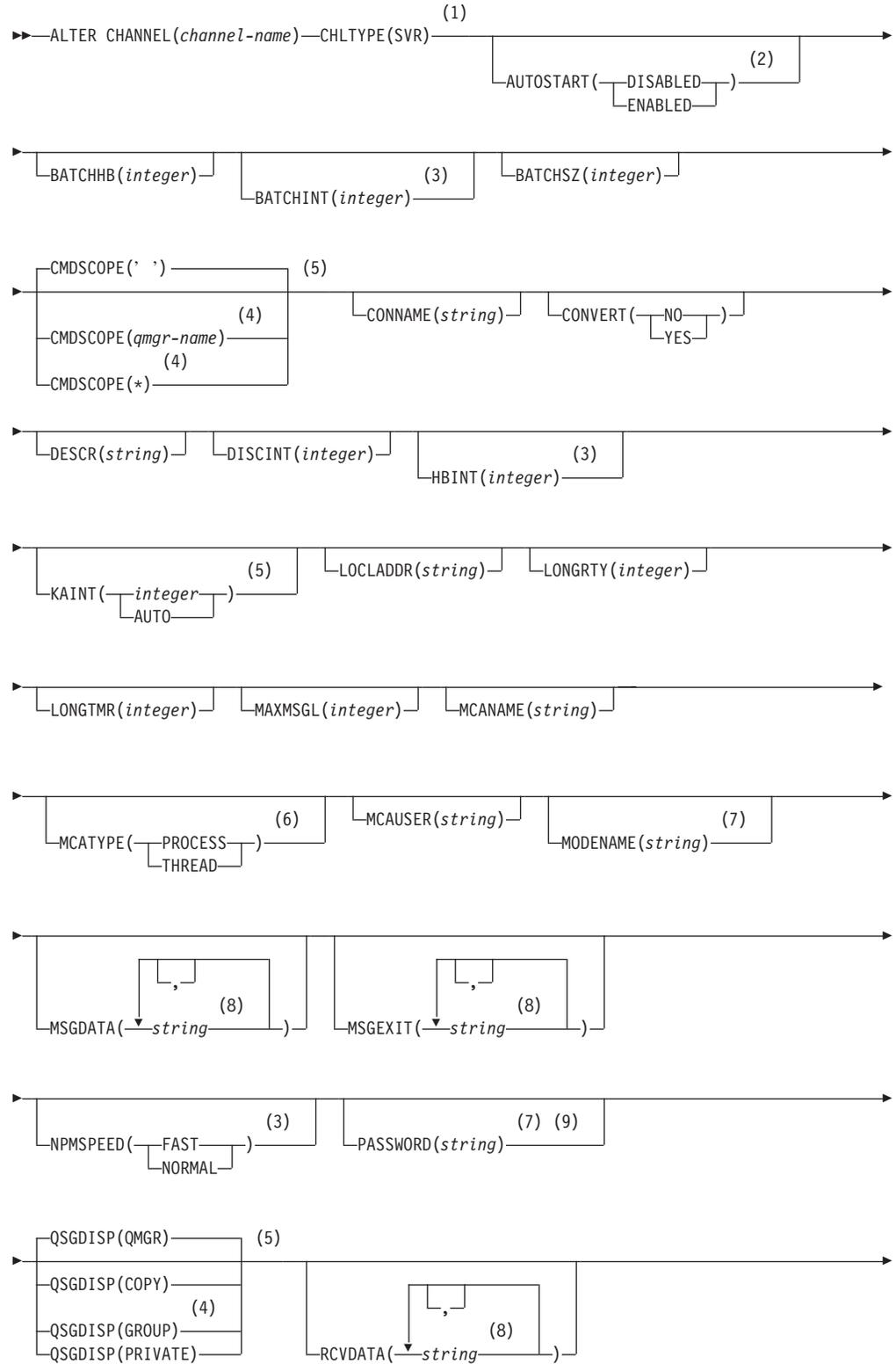


Notes:

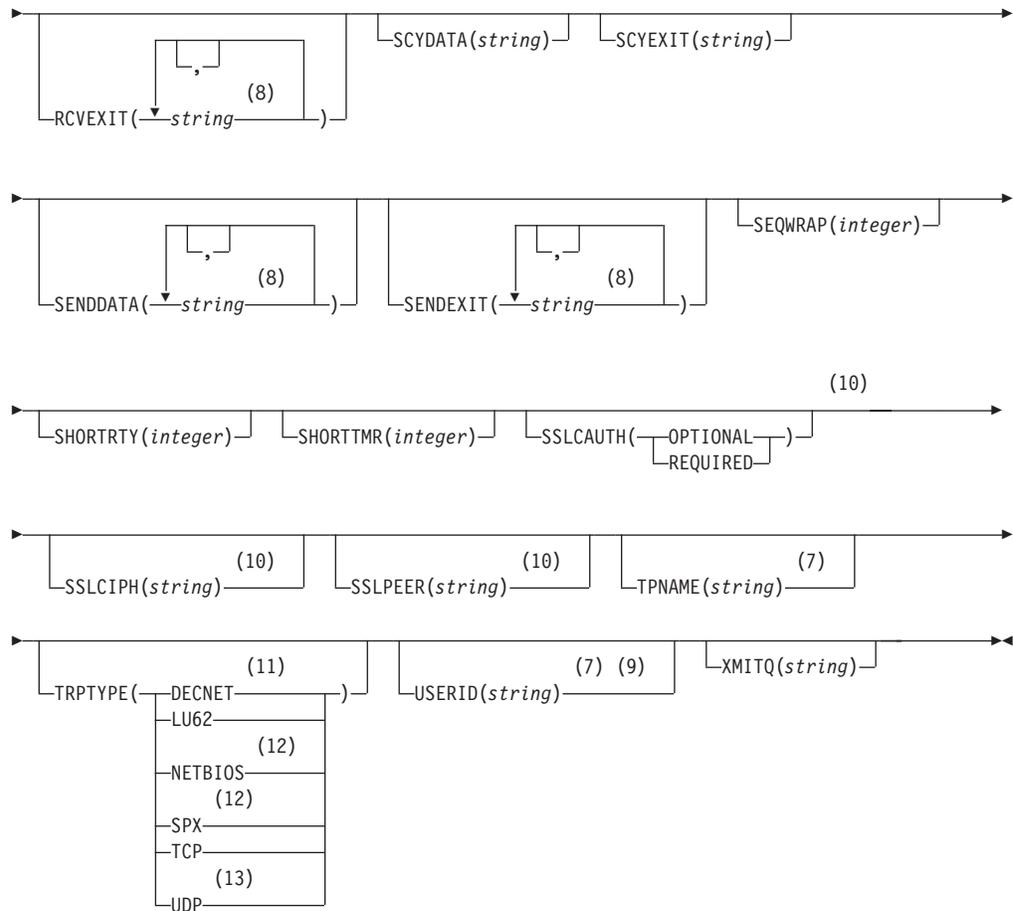
- 1 This parameter must follow immediately after the channel name except on z/OS.
- 2 Valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows and z/OS.
- 3 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- 4 Valid only on z/OS.
- 5 Valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, and Windows.
- 6 Valid only if TRPTYPE is LU62.
- 7 You can specify more than one value on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS only.
- 8 Not valid on z/OS.
- 9 Valid only on AIX, HP-UX, Linux, OS/400, Solaris, Windows, and z/OS.
- 10 Valid only on Compaq OpenVMS.
- 11 Valid only on OS/2 Warp and Windows.
- 12 Valid only on AIX.

Server channel

ALTER CHANNEL



ALTER CHANNEL

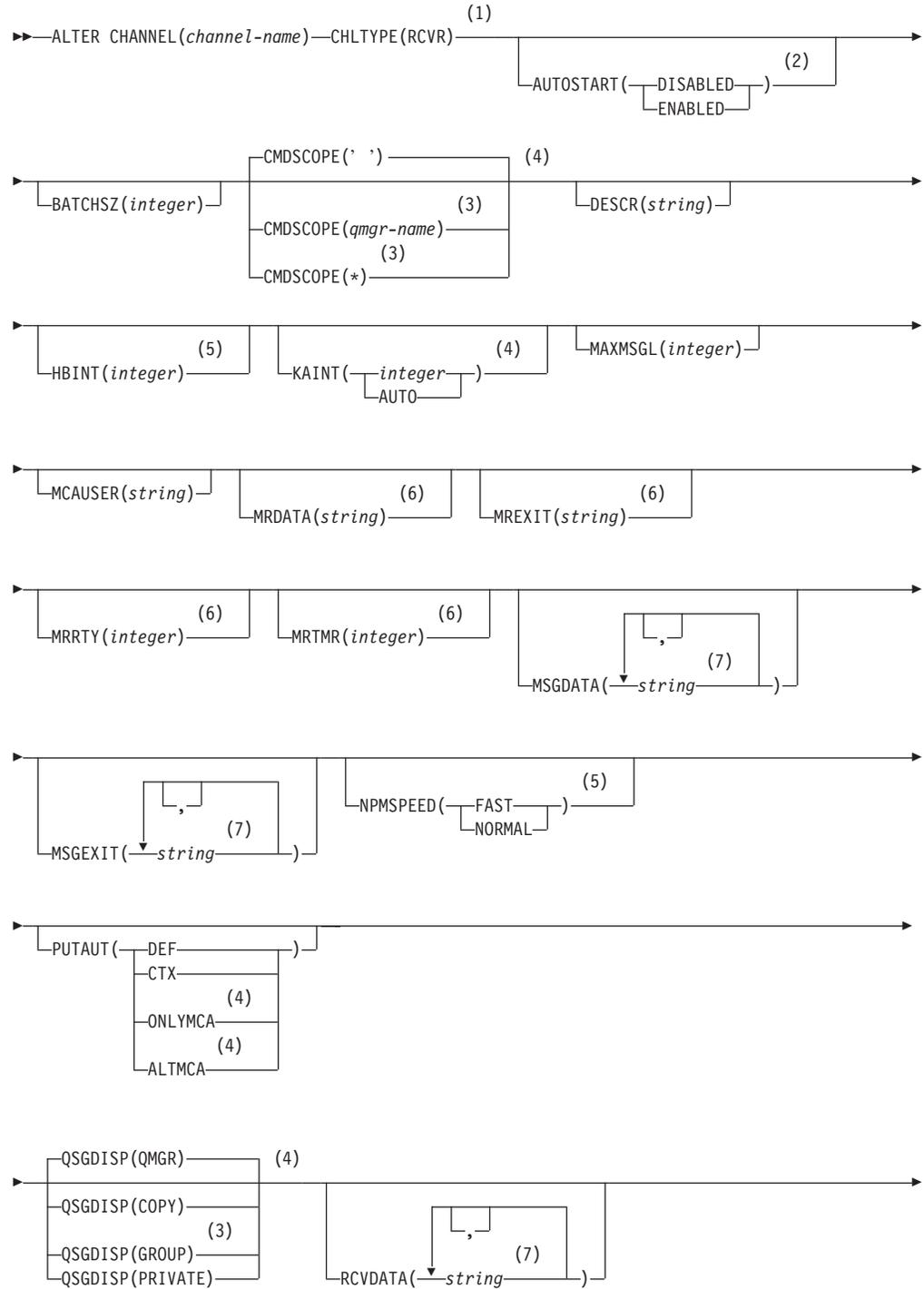


Notes:

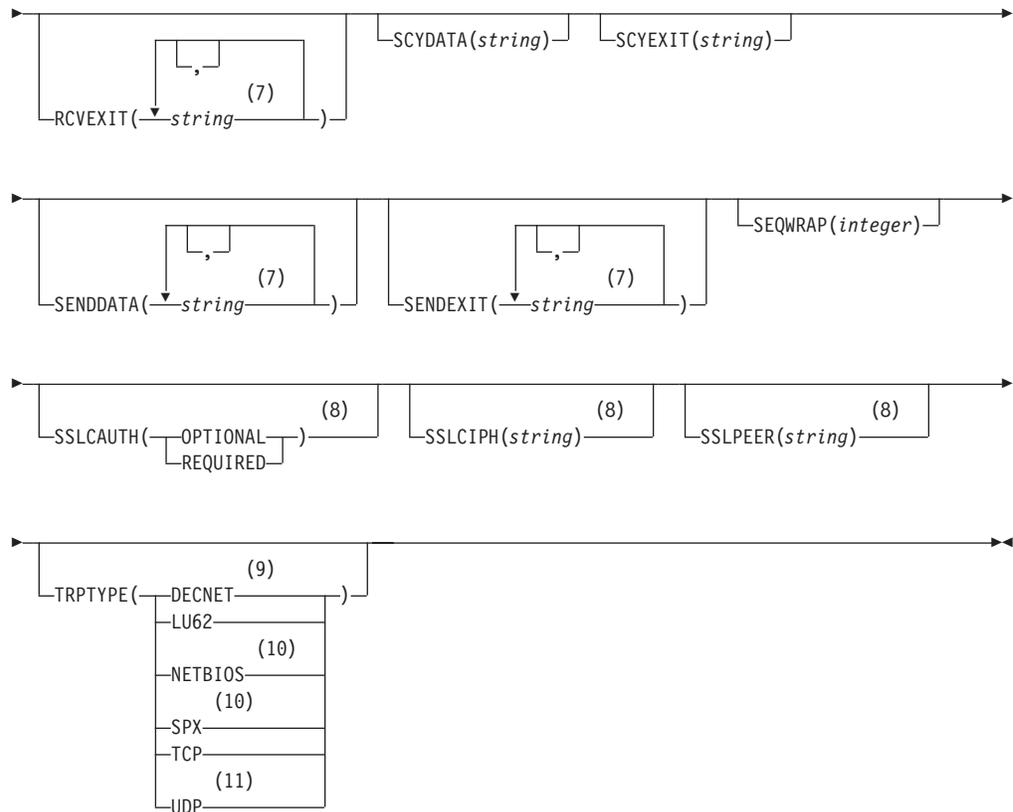
- 1 This parameter must follow immediately after the channel name except on z/OS.
- 2 Valid only on Compaq NSK when TRPTYPE is LU62.
- 3 Valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows and z/OS.
- 4 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- 5 Valid only on z/OS.
- 6 Valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, and Windows.
- 7 Valid only if TRPTYPE is LU62.
- 8 You can specify more than one value on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS only.
- 9 Not valid on z/OS.
- 10 Valid only on AIX, HP-UX, Linux, OS/400, Solaris, Windows, and z/OS.
- 11 Valid only on Compaq OpenVMS.
- 12 Valid only on OS/2 Warp and Windows.
- 13 Valid only on AIX.

Receiver channel

ALTER CHANNEL



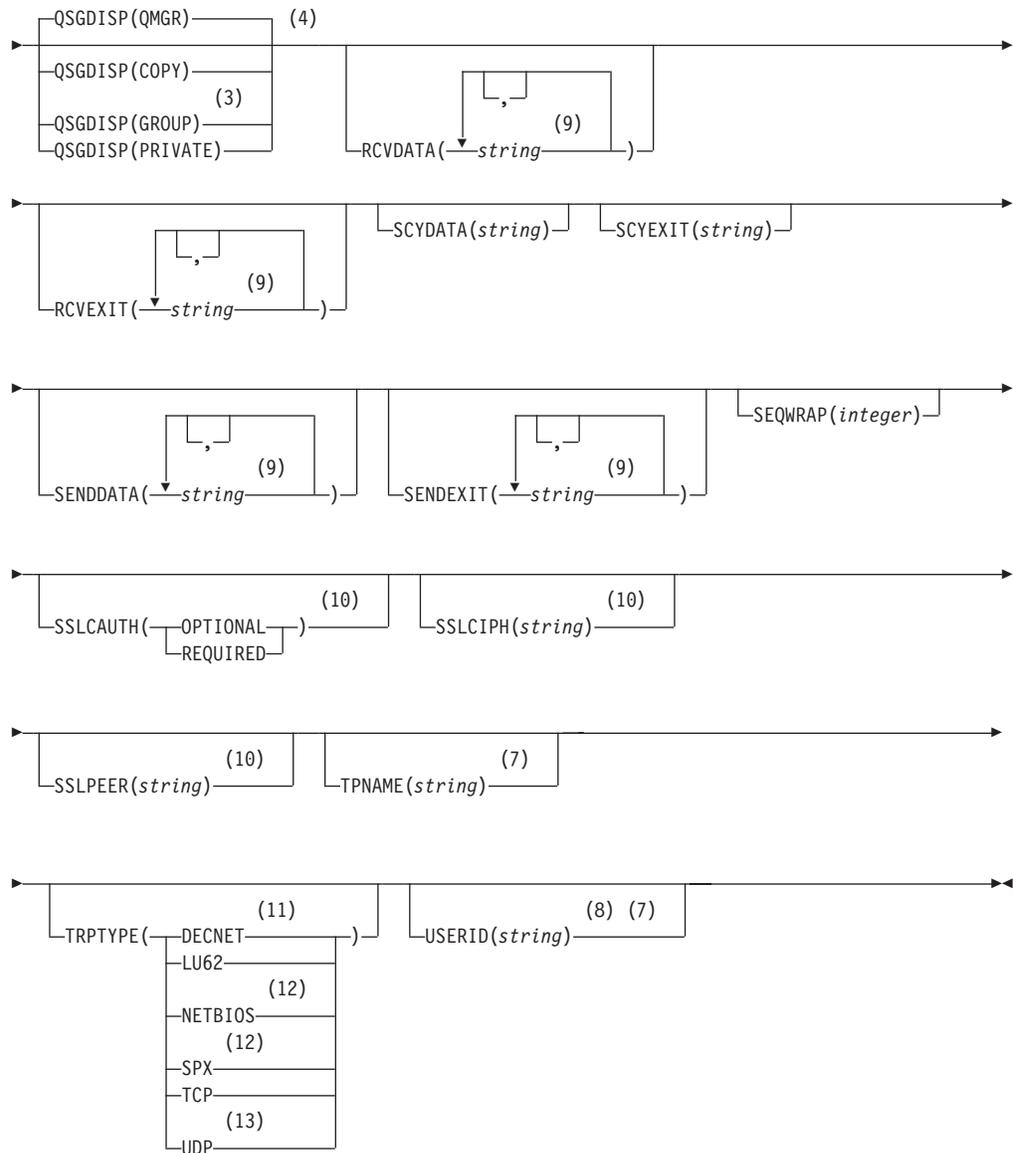
ALTER CHANNEL



Notes:

- 1 This parameter must follow immediately after the channel name except on z/OS.
- 2 Valid only on Compaq NSK when TRPTYPE is LU62.
- 3 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- 4 Valid only on z/OS.
- 5 Valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.
- 6 Not valid on z/OS.
- 7 You can specify more than one value on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS only.
- 8 Valid only on AIX, HP-UX, Linux, OS/400, Solaris, Windows, and z/OS.
- 9 Valid only on Compaq OpenVMS.
- 10 Valid only on OS/2 Warp and Windows.
- 11 Valid only on AIX.

ALTER CHANNEL



Notes:

- 1 This parameter must follow immediately after the channel name except on z/OS.
- 2 Valid only on Compaq NSK when TRPTYPE is LU62.
- 3 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- 4 Valid only on z/OS.
- 5 Valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.
- 6 Valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, and Windows.
- 7 Valid only if TRPTYPE is LU62.
- 8 Not valid on z/OS.

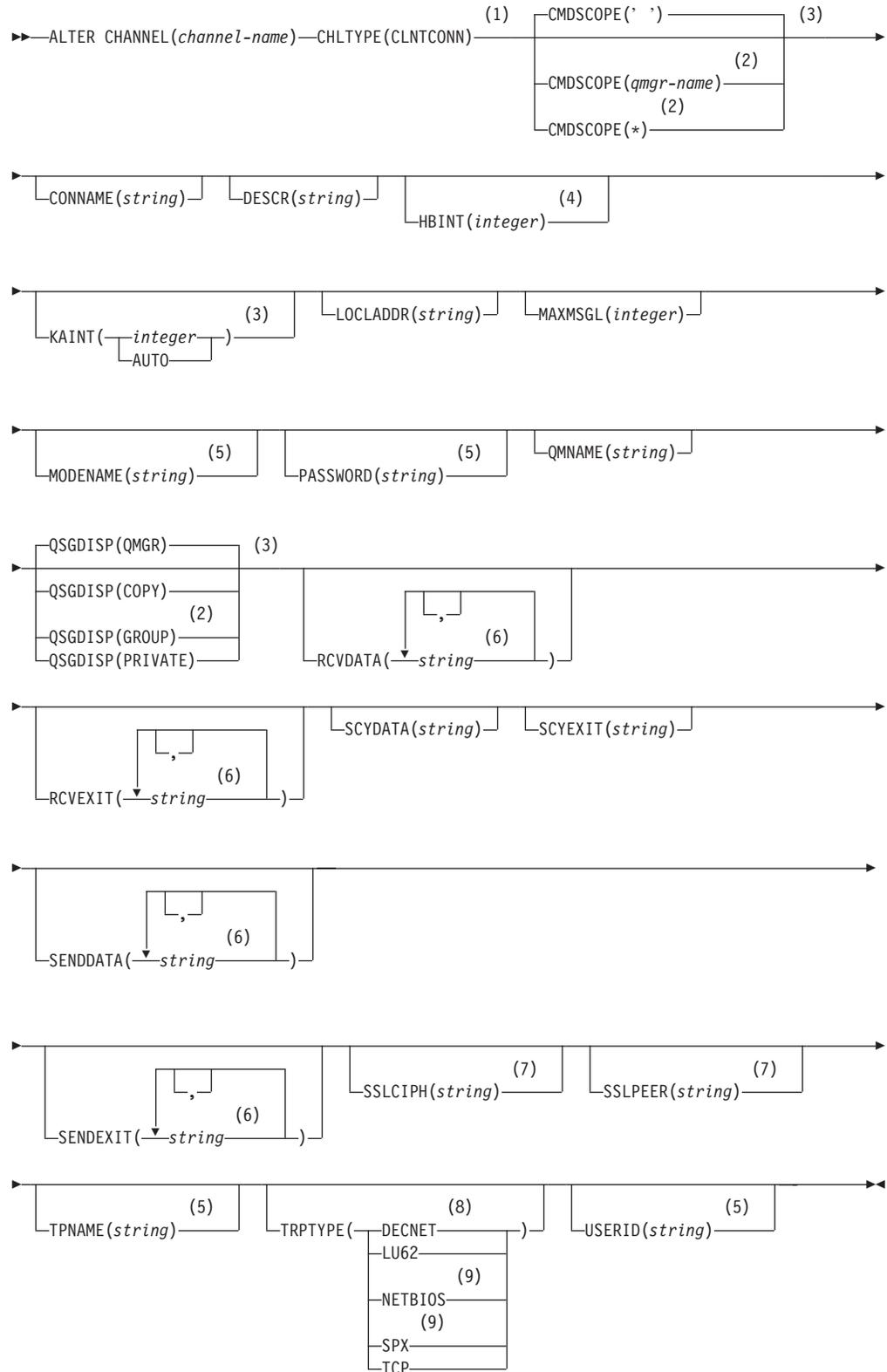
ALTER CHANNEL

- 9 You can specify more than one value on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS only.
- 10 Valid only on AIX, HP-UX, Linux, OS/400, Solaris, Windows, and z/OS.
- 11 Valid only on Compaq OpenVMS.
- 12 Valid only on OS/2 Warp and Windows.
- 13 Valid only on AIX.

ALTER CHANNEL

Client-connection channel

ALTER CHANNEL



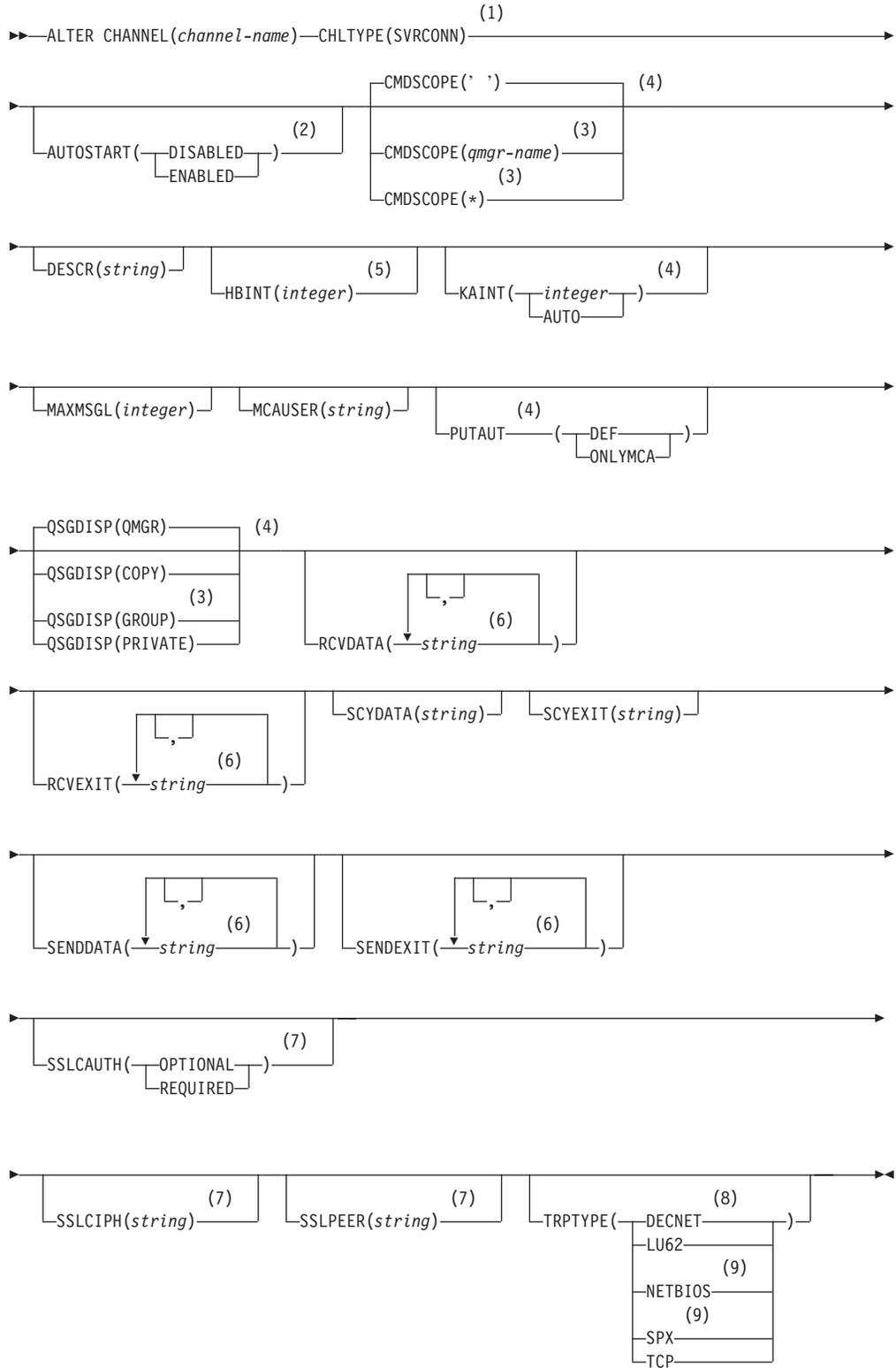
Notes:

- 1 This parameter must follow immediately after the channel name except on z/OS.
- 2 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- 3 Valid only on z/OS.
- 4 Valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, and Windows.
- 5 Valid only if TRPTYPE is LU62.
- 6 You can specify more than one value on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS only.
- 7 Valid only on AIX, HP-UX, Linux, OS/400, Solaris, Windows, and z/OS.
- 8 Valid only on Compaq OpenVMS.
- 9 Valid only for clients to be run on DOS, OS/2 Warp, and Windows.

ALTER CHANNEL

Server-connection channel

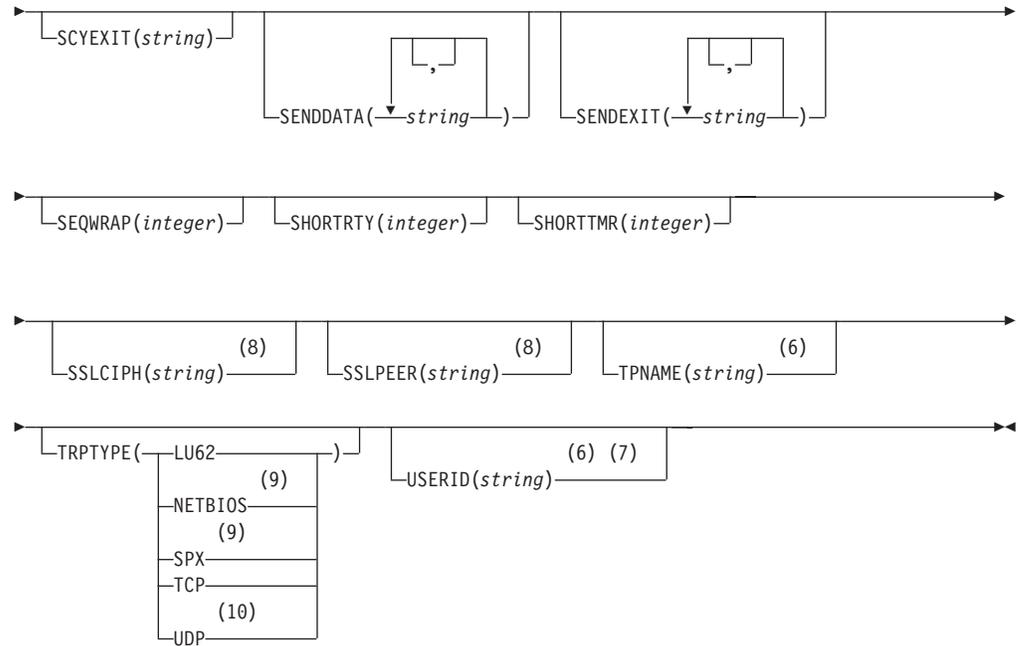
ALTER CHANNEL



Notes:

- 1 This parameter must follow immediately after the channel name except on z/OS.
- 2 Valid only on Compaq NSK when TRPTYPE is LU62.
- 3 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- 4 Valid only on z/OS.
- 5 Valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, and Windows.
- 6 You can specify more than one value on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS only.
- 7 Valid only on AIX, HP-UX, Linux, OS/400, Solaris, Windows, and z/OS.
- 8 Valid only on Compaq OpenVMS.
- 9 Valid only for clients to be run on DOS, OS/2 Warp, and Windows.

ALTER CHANNEL



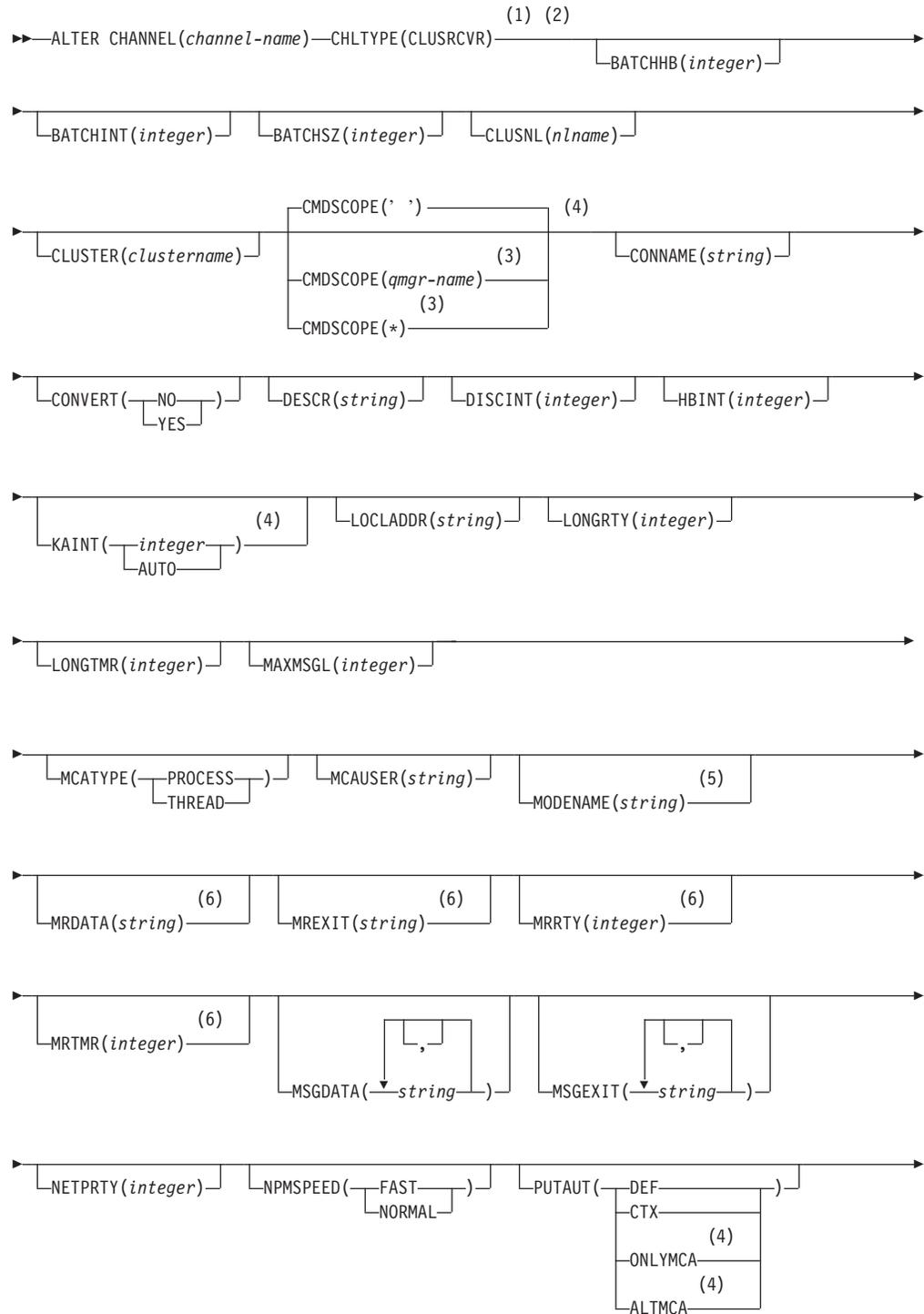
Notes:

- 1 This parameter must follow immediately after the channel name except on z/OS.
- 2 Valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.
- 3 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- 4 Valid only on z/OS.
- 5 Valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, and Windows.
- 6 Valid only if TRPTYPE is LU62.
- 7 Not valid on z/OS.
- 8 Valid only on AIX, HP-UX, Linux, OS/400, Solaris, Windows, and z/OS.
- 9 Valid only on OS/2 Warp and Windows.
- 10 Valid only on AIX.

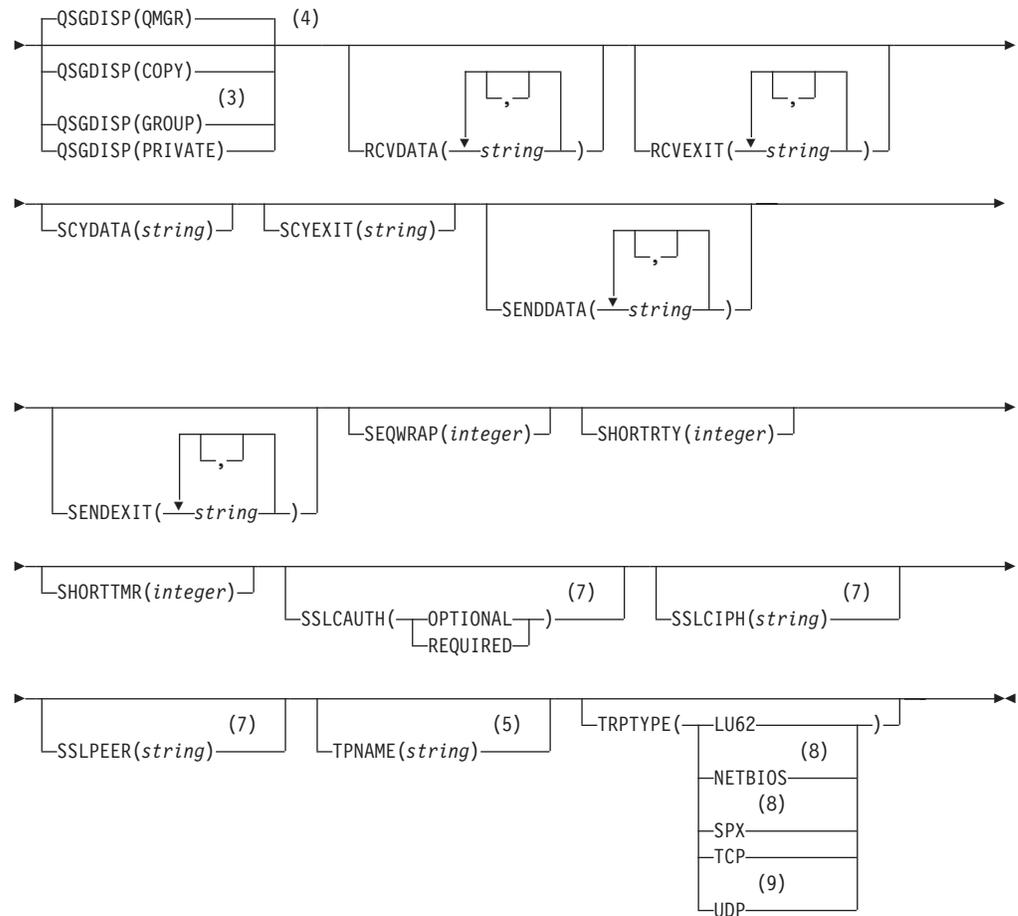
ALTER CHANNEL

Cluster-receiver channel

ALTER CHANNEL



ALTER CHANNEL



Notes:

- 1 This parameter must follow immediately after the channel name except on z/OS.
- 2 Valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.
- 3 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- 4 Valid only on z/OS.
- 5 Valid only if TRPTYPE is LU62.
- 6 Not valid on z/OS.
- 7 Valid only on AIX, HP-UX, Linux, OS/400, Solaris, Windows, and z/OS.
- 8 Valid only on OS/2 Warp and Windows.
- 9 Valid only on AIX.

Parameter descriptions

For a description of the parameters see "DEFINE CHANNEL" on page 74.

ALTER NAMELIST

ALTER NAMELIST

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
✓	✓	✓	✓	✓	✓	2CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

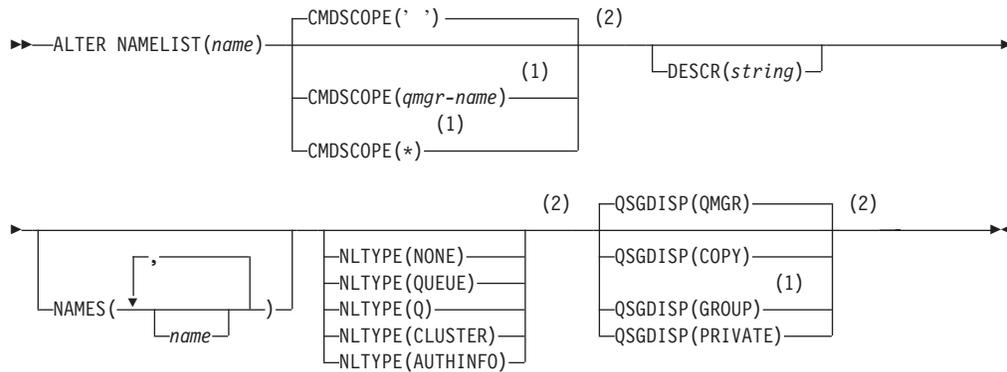
Use ALTER NAMELIST to alter a list of names. This is most commonly a list of cluster names or queue names.

Notes:

1. On UNIX systems, the command is valid only on AIX, HP-UX, and Solaris.

Synonym: ALT NL

ALTER NAMELIST



Notes:

- 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- 2 Valid only on z/OS.

Parameter descriptions

For a description of the parameters see “DEFINE NAMELIST” on page 118

ALTER PROCESS

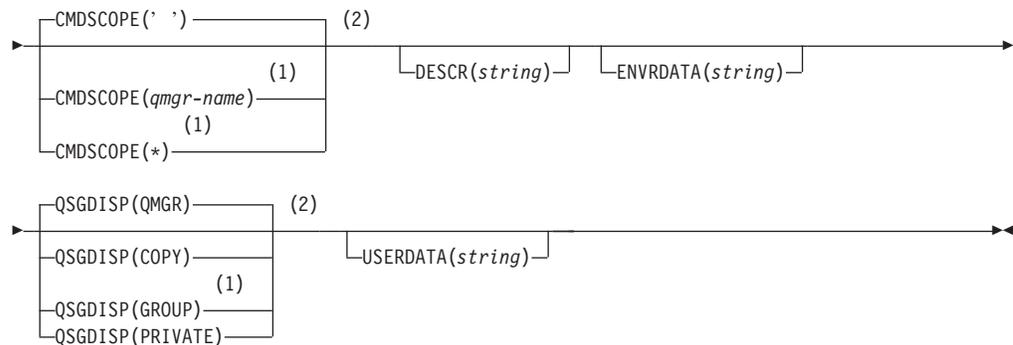
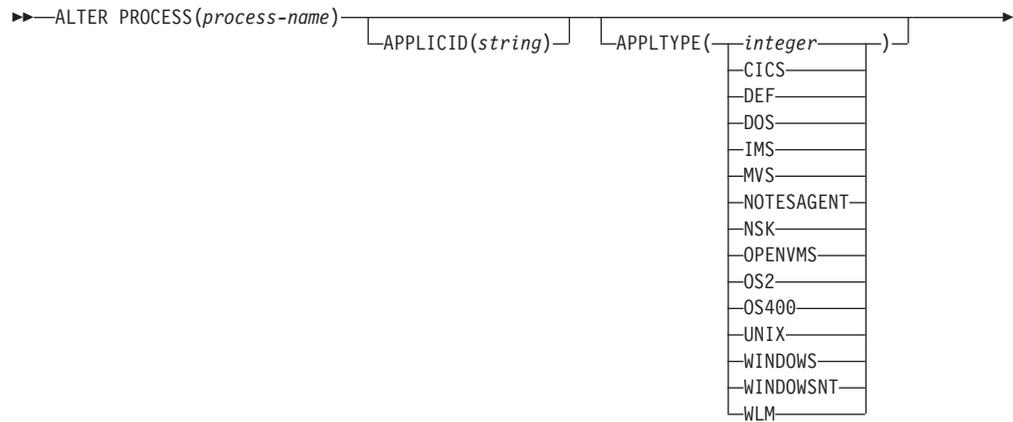
Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
✓	✓	✓	✓	✓	✓	2CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use ALTER PROCESS to alter the parameters of an existing WebSphere MQ process definition.

Synonym: ALT PRO

ALTER PROCESS



Notes:

- 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- 2 Valid only on z/OS.

Parameter descriptions

For a description of the parameters see “DEFINE PROCESS” on page 122.

ALTER QMGR

ALTER QMGR

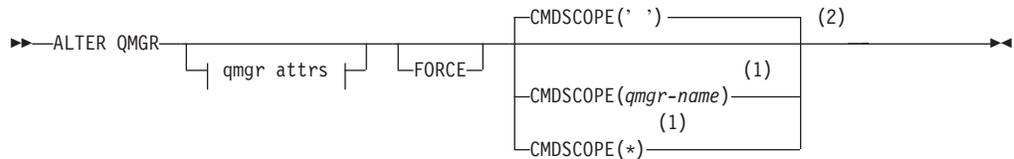
Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
✓	✓	✓	✓	✓	✓	2CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

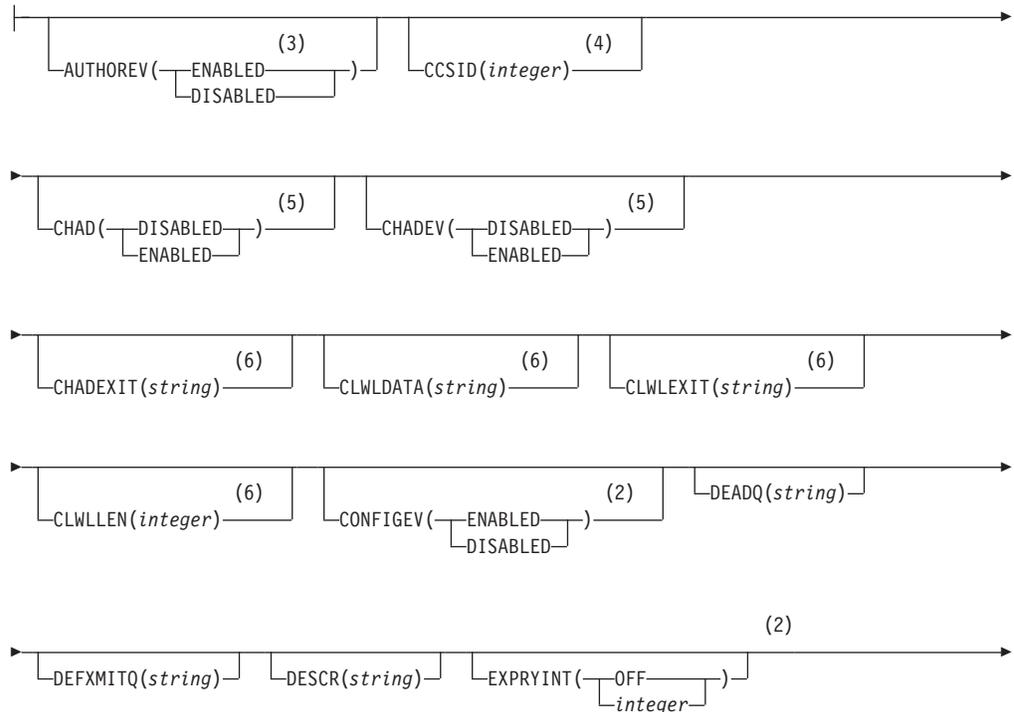
Use ALTER QMGR to alter the queue manager parameters for the local queue manager.

Synonym: ALT QMGR

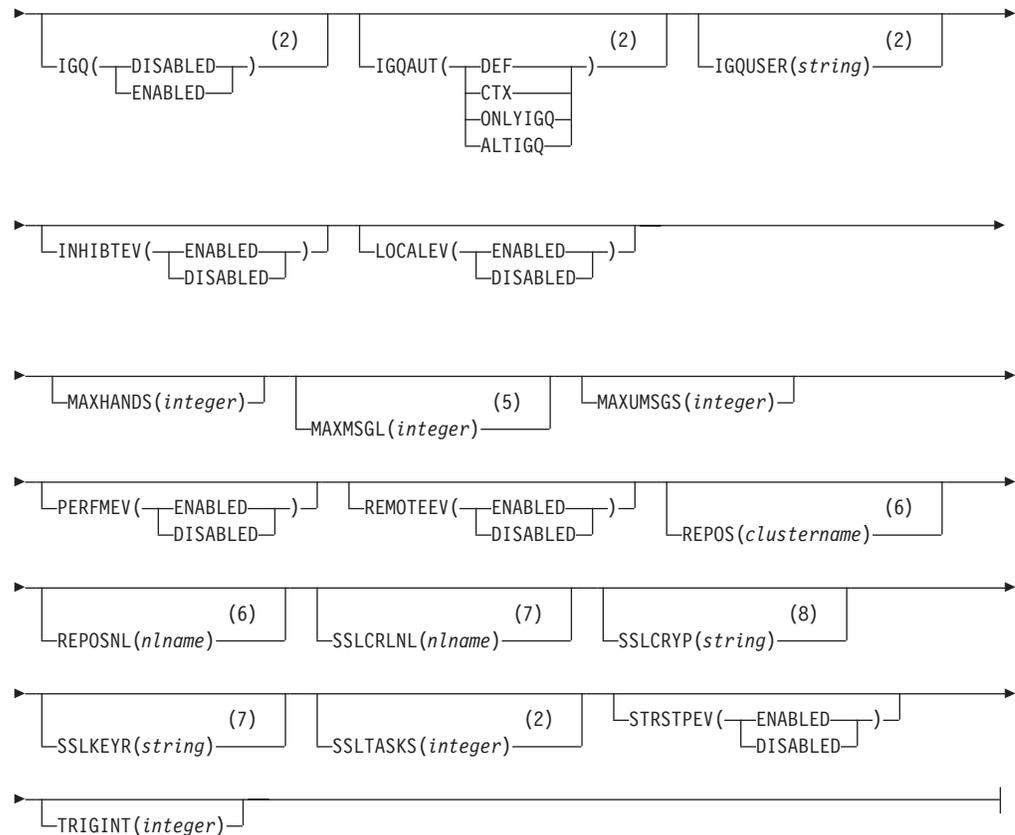
ALTER QMGR



Qmgr attrs:



ALTER QMGR



Notes:

- 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- 2 Valid only on z/OS.
- 3 Not valid on z/OS.
- 4 Valid only on AIX, Compaq NSK, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, and Windows.
- 5 Valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, and Windows.
- 6 Valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.
- 7 Valid only on AIX, HP-UX, Linux, OS/400, Solaris, Windows, and z/OS.
- 8 Valid only on AIX, HP-UX, Linux, and Solaris.

Parameter descriptions

The parameters you specify override the current values. Attributes that you do not specify are unchanged.

Notes:

1. If you do not specify any parameters, the command completes successfully, but no queue manager options are changed.
2. Changes made using this command persist when the queue manager is stopped and restarted.

ALTER QMGR

FORCE

Specify this to force completion of the command if both of the following are true:

- The DEFXMITQ parameter is specified
- An application has a remote queue open, the resolution for which would be affected by this change

If FORCE is not specified in these circumstances, the command is unsuccessful.

Queue manager parameters

AUTHOREV

Whether authorization (Not Authorized) events are generated:

ENABLED

Authorization events are generated.

This value is not supported on z/OS.

DISABLED

Authorization events are not generated. This is the queue manager's initial default value.

CCSID(*integer*)

The coded character set identifier for the queue manager. The CCSID is the identifier used with all character string fields defined by the API. It does not apply to application data carried in the text of messages unless the CCSID in the message descriptor is set to the value MQCCSI_Q_MGR when the message is put to a queue.

Specify a value in the range 1 through 65 535. The CCSID must specify a value that is defined for use on your platform, and use a character set that is appropriate to the platform.

If you use this parameter to change the CCSID, applications that are running when the change is applied continue to use the original CCSID. Because of this, you must stop and restart all running applications before you continue. This includes the command server and channel programs. To do this, stop and restart the queue manager after making the change.

This parameter is valid only on AIX, Compaq NSK, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, and Windows. See the *WebSphere MQ Application Programming Guide* for details of the supported CCSIDs for each platform.

CHAD

Whether receiver and server-connection channels can be defined automatically:

DISABLED

Auto-definition is not used. This is the queue manager's initial default value.

ENABLED

Auto-definition is used.

Cluster-sender channels can always be defined automatically, regardless of the setting of this parameter.

This parameter is valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, and Windows.

CHADEV

Whether channel auto-definition events are generated.

DISABLED

Auto-definition events are not generated. This is the queue manager's initial default value.

ENABLED

Auto-definition events are generated.

This parameter is valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, and Windows.

CHADEXIT(*string*)

Auto-definition exit name.

If this name is nonblank, the exit is called when an inbound request for an undefined receiver, server-connection, or cluster-sender channel is received. It is also called when starting a cluster-receiver channel.

The format and maximum length of the name depends on the environment:

- On OS/2 Warp and Windows, it is of the form *dllname*(*functionname*) where *dllname* is specified without the suffix (".DLL"). The maximum length is 128 characters.
- On OS/400, it is of the form:

progrname libname

where *program name* occupies the first 10 characters and *libname* the second 10 characters (both blank-padded to the right if necessary). The maximum length of the string is 20 characters.

- On AIX, Compaq OpenVMS, HP-UX, Linux, and Solaris, it is of the form *libraryname*(*functionname*). The maximum length is 128 characters.
- On z/OS, it is a load module name, the maximum length is 8 characters.

This parameter is valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS. On z/OS, it applies only to cluster-sender and cluster-receiver channels.

CLWLDATA(*string*)

Cluster workload exit data. The maximum length of the string is 32 characters.

This string is passed to the cluster workload exit when it is called.

This parameter is valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.

CLWLEXIT(*string*)

Cluster workload exit name.

If this name is nonblank, the exit is called when a message is put to a cluster queue. The format and maximum length of the name depends on the environment:

- On UNIX systems and Compaq OpenVMS, it is of the form *libraryname*(*functionname*). The maximum length is 128 characters.

ALTER QMGR

- On OS/2 Warp and Windows, it is of the form *dllname(functionname)*, where *dllname* is specified without the suffix (".DLL"). The maximum length is 128 characters.
- On z/OS, it is a load module name. The maximum length is 8 characters.
- On OS/400, it is of the form:
 progrname libname

where *program name* occupies the first 10 characters and *libname* the second 10 characters (both blank-padded to the right if necessary). The maximum length is 20 characters.

This parameter is valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.

CLWLEN(*integer*)

The maximum number of bytes of message data that is passed to the cluster workload exit.

Specify a value:

- in the range zero through 100 MB on WebSphere MQ for z/OS systems
- in the range zero through 999 999 999 on other platforms

The initial default value is 100.

This parameter is valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows and z/OS.

CMDSCOPE

This parameter applies to z/OS only and specifies how the command is executed when the queue manager is a member of a queue-sharing group.

'' The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

- * The command is executed on the local queue manager and is also passed to every active queue manager in the queue-sharing group. The effect of this is the same as entering the command on every queue manager in the queue-sharing group.

CONFIGEV

Whether configuration events are generated:

ENABLED

Configuration events are generated. After setting this value, issue REFRESH QMGR TYPE(CONFIGEV) commands for all objects to bring the queue manager configuration up-to-date.

DISABLED

Configuration events are not generated. This is the queue manager's initial default value.

If you are using the reduced function form of WebSphere MQ for z/OS supplied with WebSphere Application Server, only DISABLED is valid.

DEADQ(string)

The local name of a dead-letter queue (or undelivered-message queue) on which messages that cannot be routed to their correct destination are put.

The queue named must be a local queue. See "Rules for naming WebSphere MQ objects" on page 4.

DEFXMITQ(string)

Local name of the default transmission queue on which messages destined for a remote queue manager are put, if there is no other suitable transmission queue defined.

The queue named must be a local transmission queue. See "Rules for naming WebSphere MQ objects" on page 4.

DESCR(string)

Plain-text comment. It provides descriptive information about the queue manager.

It should contain only displayable characters. The maximum length of the string is 64 characters. In a DBCS installation, it can contain DBCS characters (subject to a maximum length of 64 bytes).

Note: If characters are used that are not in the coded character set identifier (CCSID) for this queue manager, they might be translated incorrectly if the information is sent to another queue manager.

EXPRYINT

Specifies how often queues are scanned to discard expired messages:

OFF Queues are not scanned. No internal expiry processing is performed. This is the default.

integer The approximate interval in seconds at which queues are scanned. Each time that the expiry interval is reached, the queue manager looks for candidate queues that are worth scanning to discard expired messages.

The queue manager maintains information about the expired messages on each queue, and therefore whether a scan for expired messages is worthwhile. So, only a selection of queues is scanned at any time.

The value must be in the range 1 through 99 999 999. The minimum scan interval used is 5 seconds, even if you specify a lower value.

Note: You must set the same EXPRYINT value for all queue managers within a queue-sharing group that support this attribute.

Changes to EXPRYINT take effect when the current interval expires, unless the new interval is less than the unexpired portion of the current interval, in which case a scan is scheduled immediately and the new interval value takes immediate effect.

ALTER QMGR

This parameter is supported only on z/OS.

IGQ Whether intra-group queuing is used.

This parameter is valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.

ENABLED

Message transfer between queue managers within a queue-sharing group uses the shared transmission queue (SYSTEM.QSG.TRANSMIT.QUEUE).

DISABLED

Message transfer between queue managers within a queue-sharing group uses non-shared transmission queues and channels. This is the same mechanism used for message transfer between queue managers that are not part of a queue-sharing group. This is the default value.

If intra-group queuing has been enabled, but the intra-group queuing agent has stopped for some reason, you can issue ALTER QMGR IGQ(ENABLED) to restart it.

IGQAUT

Specifies the type of authority checking and, therefore, the user IDs, to be used by the IGQ agent (IGQA). This establishes the authority to put messages to a destination queue.

This parameter is valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.

DEF Indicates that the default user ID should be used to establish authority to put messages to a destination queue. This is the default value.

For one user ID check, this involves using the user ID (referred to as QSGSEND) of the queue manager within the queue-sharing group that put the messages to the SYSTEM.QSG.TRANSMIT.QUEUE.

For two user ID checks, this involves using the QSGSEND user ID and the IGQ user ID.

CTX Indicates that the user ID from the *UserIdentifier* field in the message descriptor, of a message on the SYSTEM.QSG.TRANSMIT.QUEUE, should be used to establish authority to put messages to a destination queue.

For one user ID check, this involves using the QSGSEND user ID.

For two user ID checks, this might involve using the QSGSEND user ID, the IGQ user ID and the alternate user id (referred to as ALT) taken from the *UserIdentifier* field in the message descriptor of a message on the SYSTEM.QSG.TRANSMIT.QUEUE.

ONLYIGQ

Indicates that only the IGQ user ID should be used to establish authority to put messages to a destination queue.

For all ID checks, this involves using the IGQ user ID.

ALTIGQ

Indicates that the IGQ user ID and the ALT user ID should be used to establish authority to put messages to a destination queue.

For one user ID check, this uses the IGQ user ID.

For two user ID checks, this uses the IGQ user ID and the ALT user ID.

IGQUSER

Nominates a user ID (referred to as the IGQ user ID) to be used by the IGQ agent (IGQA) to establish authority to put messages to a destination queue.

This parameter is valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group. Possible values are:

Blanks

This is the default value for the IGQ user ID and indicates that the user ID of the receiving queue manager within the QSG should be used.

Specific user ID

Indicates that the user ID specified in the receiving queue manager's IGQUSER parameter should be used.

Notes:

1. As the receiving queue manager has authority to all queues it can access, this means that security checking might not be performed for this user ID type.
2. As the default value of blanks has a special meaning, you cannot use IGQUSER to specify a real user ID of blanks.

INHIBTEV

Whether inhibit (Inhibit Get and Inhibit Put) events are generated:

ENABLED

Inhibit events are generated.

DISABLED

Inhibit events are not generated. This is the queue manager's initial default value.

If you are using the reduced function form of WebSphere MQ for z/OS supplied with WebSphere Application Server, only DISABLED is valid.

LOCALEV

Whether local error events are generated:

ENABLED

Local error events are generated.

DISABLED

Local error events are not generated. This is the queue manager's initial default value.

If you are using the reduced function form of WebSphere MQ for z/OS supplied with WebSphere Application Server, only DISABLED is valid.

ALTER QMGR

MAXHANDS(*integer*)

The maximum number of open handles that any one task can have at the same time.

This is a value in the range zero through 999 999 999.

Note: On MQSeries for Compaq NonStop Kernel, this parameter is ignored.

MAXMSGL(*integer*)

The maximum length of messages allowed on queues for this queue manager.

This is in the range 32 KB through 100 MB. The default is 4 MB (4 194 403 bytes).

If you reduce the maximum message length for the queue manager, you must also reduce the maximum message length of the SYSTEM.DEFAULT.LOCAL.QUEUE definition, and all other queues connected to the queue manager. This ensures that the queue manager's limit is not less than that of any of the queues associated with it. If you do not do this, and applications inquire only the value of the queue's MAXMSGL, they might not work correctly.

This parameter is valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, and Windows.

MAXUMSGS(*integer*)

The maximum number of uncommitted messages within a syncpoint.

This is a limit on

- The number of messages that can be retrieved, plus
- The number of messages that can be put

within any single syncpoint. It does not apply to messages that are put or retrieved outside syncpoint.

The number includes any trigger messages and report messages generated within the same unit of recovery.

Specify a value in the range 1 through 999 999 999.

Note: On MQSeries for Compaq NonStop Kernel, this parameter is ignored.

PERFMEV

Whether performance-related events are generated:

ENABLED

Performance-related events are generated.

DISABLED

Performance-related events are not generated. This is the queue manager's initial default value.

Notes:

1. On WebSphere MQ for z/OS all the queue managers in a queue-sharing group should have the same setting.
2. If you are using the reduced function form of WebSphere MQ for z/OS supplied with WebSphere Application Server, only DISABLED is valid.

REMOTEEV

Whether remote error events are generated:

ENABLED

Remote error events are generated.

DISABLED

Remote error events are not generated. This is the queue manager's initial default value.

If you are using the reduced function form of WebSphere MQ for z/OS supplied with WebSphere Application Server, only DISABLED is valid.

REPOS(*clustname*)

The name of a cluster for which this queue manager provides a repository manager service. The maximum length is 48 characters conforming to the rules for naming WebSphere MQ objects.

No more than one of the resultant values of REPOS can be nonblank. If you are using the reduced function form of WebSphere MQ for z/OS supplied with WebSphere Application Server, the REPOS value must be blank.

This parameter is valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.

REPOSNL(*nlname*)

The name of a namelist of clusters for which this queue manager provides a repository manager service.

No more than one of the resultant values of REPOSNL can be nonblank. If you are using the reduced function form of WebSphere MQ for z/OS supplied with WebSphere Application Server, the REPOSNL value must be blank.

If both REPOS and REPOSNL are blank, or REPOS is blank and the namelist specified by REPOSNL is empty, this queue manager does not have a full repository, but might be a client of other repository services that are defined in the cluster.

This parameter is valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.

SSLCRLNL(*nlname*)

The name of a namelist of authentication information objects to be used for Certificate Revocation List (CRL) checking by the queue manager.

This parameter is supported only on AIX, HP-UX, Linux, OS/400, Solaris, Windows, and z/OS.

If SSLCRLNL is blank, CRL checking is not invoked.

Changes to SSLCRLNL, or to the names in a previously specified namelist, or to previously referenced authentication information objects, become effective either:

- On OS/400, Windows, and UNIX systems, when a new channel process is started.
- For channels that run as threads of the channel initiator on OS/400, Windows, and UNIX systems, when the channel initiator is restarted.
- For channels that run as threads of the listener on OS/400, Windows, and UNIX systems, when the listener is restarted.

ALTER QMGR

- On z/OS, when the channel initiator is restarted.
- On OS/400 servers this parameter is ignored. However, it is used to determine what authentication information objects are written to the AMQCLCHL.TAB file.

SSLCRYP(string)

Sets the name of the parameter string required to configure the cryptographic hardware present on the system.

This parameter is supported on AIX, HP-UX, Linux, and Solaris only.

The string can have one of the following values:

- GSK_ACCELERATOR_RAINBOW_CS_OFF
- GSK_ACCELERATOR_RAINBOW_CS_ON
- GSK_ACCELERATOR_NCIPHER_NF_OFF
- GSK_ACCELERATOR_NCIPHER_NF_ON
- GSK_PKCS11=<the PKCS #11 driver path and filename>;<the PKCS #11 token label>;<the PKCS #11 token password>;

The strings containing RAINBOW enable or disable the Rainbow cryptographic hardware. If the Rainbow cryptographic hardware is present, it is enabled by default.

The strings containing NCIPHER enable or disable the nCipher cryptographic hardware. If the nCipher cryptographic hardware is present, it is enabled by default.

To use cryptographic hardware that is accessed using the PKCS #11 interface, specify the string containing PKCS11. The PKCS #11 driver path is an absolute path to the shared library providing support for the PKCS #11 card. The PKCS #11 driver filename is the name of the shared library. An example of the value required for the PKCS #11 driver path and filename is /usr/lib/pkcs11/PKCS11_API.so

The maximum length of the string is 256 characters. The default value is blank.

If you specify a string that does not begin with one of the cryptographic strings listed above, you get an error. If you specify the GSK_PKCS11 string, the syntax of the other parameters is also checked.

When the SSLCRYP value is changed, the cryptographic hardware parameters specified become the ones used for new SSL connection environments. The new information becomes effective:

- When a new channel process is started.
- For channels that run as threads of the channel initiator, when the channel initiator is restarted.
- For channels that run as threads of the listener, when the listener is restarted.

SSLKEYR(string)

The name of the Secure Sockets Layer key repository.

This parameter is supported only on AIX, HP-UX, Linux, OS/400, Solaris, Windows, and z/OS.

The maximum length of the string is 256 characters.

The format of the name depends on the environment:

- On z/OS, it is the name of a key ring.
- On UNIX systems, it is of the form *pathname/keyfile*, where *keyfile* is specified without the suffix (.kdb), and identifies a GSKit key database file. The default value is */var/mqm/qmgrs/QMGR/ssl/key*, where QMGR is replaced by the queue manager name.
- On OS/400, it is of the form *pathname/keyfile*, where *keyfile* is specified without the suffix (.kdb), and identifies a GSKit key database file. The default value is */QIBM/UserData/ICSS/Cert/Server/Default*.
- On Windows, the key database is held in a Microsoft® Certificate Store file, which has a filename of the form *xxx.sto*, where *xxx* is your chosen name. The SSLKEYR parameter is the path to this file along with the filename stem, (that is, all characters in the filename up to but not including the .sto file extension). WebSphere MQ automatically appends the .sto suffix.

On OS/400, Windows and UNIX systems, the syntax of this parameter is validated to ensure that it contains a valid, absolute, directory path.

If SSLKEYR is blank, or is set to a value that does not correspond to a key ring or key database file, channels using SSL fail to start.

Changes to SSLKEYR become effective either:

- On OS/400, Windows, and UNIX systems, when a new channel process is started.
- For channels that run as threads of the channel initiator on OS/400, Windows, and UNIX systems, when the channel initiator is restarted.
- For channels that run as threads of the listener on OS/400, Windows, and UNIX systems, when the listener is restarted.
- On z/OS, when the channel initiator is restarted.

SSLTASKS(*integer*)

The number of server subtasks to use for processing SSL calls. To use SSL channels, you must have at least two of these tasks running.

This parameter is valid only on z/OS.

This is in the range zero through 9999. To avoid problems with storage allocation, do not set the SSLTASKS parameter to a value greater than 50.

Changes to this parameter will be effective when the channel initiator is restarted.

STRSTPEV

Whether start and stop events are generated:

ENABLED

Start and stop events are generated. This is the queue manager's initial default value.

DISABLED

Start and stop events are not generated.

If you are using the reduced function form of WebSphere MQ for z/OS supplied with WebSphere Application Server, only DISABLED is valid.

TRIGINT(*integer*)

A time interval expressed in milliseconds.

ALTER QMGR

The TRIGINT parameter is relevant only if the trigger type (TRIGTYPE) is set to FIRST (see “DEFINE QLOCAL” on page 131 for details). In this case trigger messages are normally generated only when a suitable message arrives on the queue, and the queue was previously empty. Under certain circumstances, however, an additional trigger message can be generated with FIRST triggering even if the queue was not empty. These additional trigger messages are not generated more often than every TRIGINT milliseconds. See the *WebSphere MQ Application Programming Guide* for more information.

Specify a value in the range zero through 999 999 999.

ALTER Queues

This section contains the following commands:

- "ALTER QALIAS"
- "ALTER QLOCAL" on page 49
- "ALTER QMODEL" on page 51
- "ALTER QREMOTE" on page 53

These queues are supported on the following platforms:

Compaq NSK	Compaq OpenVMS	OS/400	UNIX systems	Windows	z/OS
✓	✓	✓	✓	✓	2CR

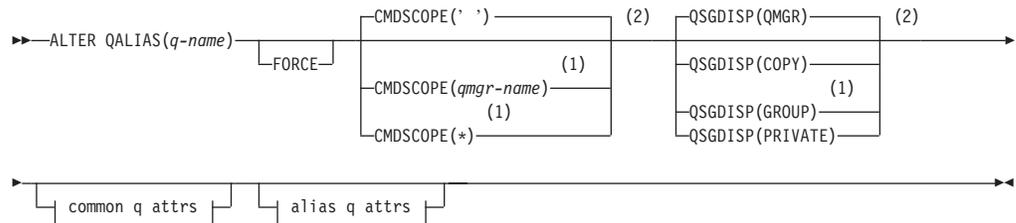
For an explanation of the symbols in the z/OS column, see "Using commands in z/OS" on page 4.

ALTER QALIAS

Use ALTER QALIAS to alter the parameters of an alias queue.

Synonym: ALT QA

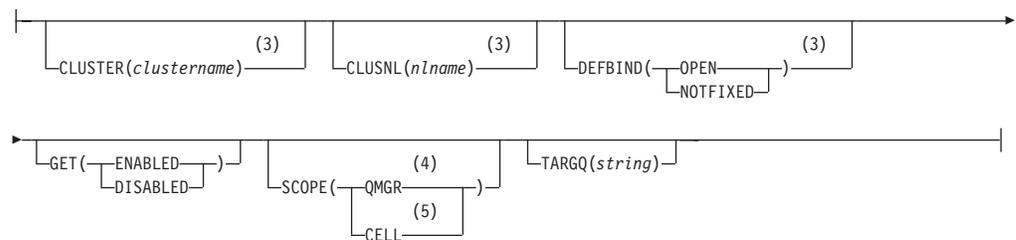
ALTER QALIAS



Common q attrs:



Alias q attrs:



Notes:

- 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.

ALTER Queues

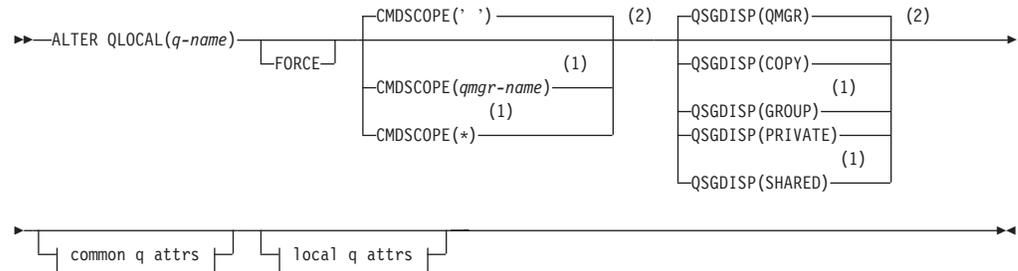
- 2 Valid only on z/OS.
- 3 Valid only on AIX, HP-UX, z/OS, OS/400, Solaris, and Windows.
- 4 Valid only on Compaq OpenVMS, OS/400, UNIX systems, and Windows.
- 5 Valid only on Compaq OpenVMS, UNIX systems, and Windows.

ALTER QLOCAL

Use ALTER QLOCAL to alter the parameters of a local queue.

Synonym: ALT QL

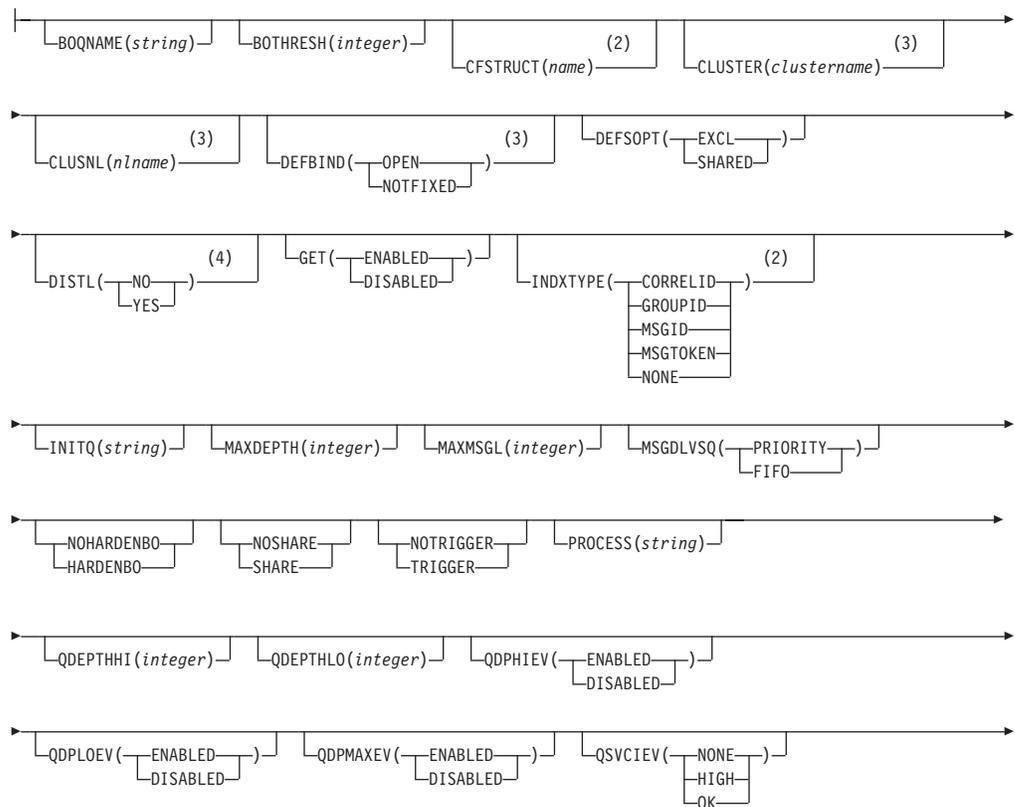
ALTER QLOCAL



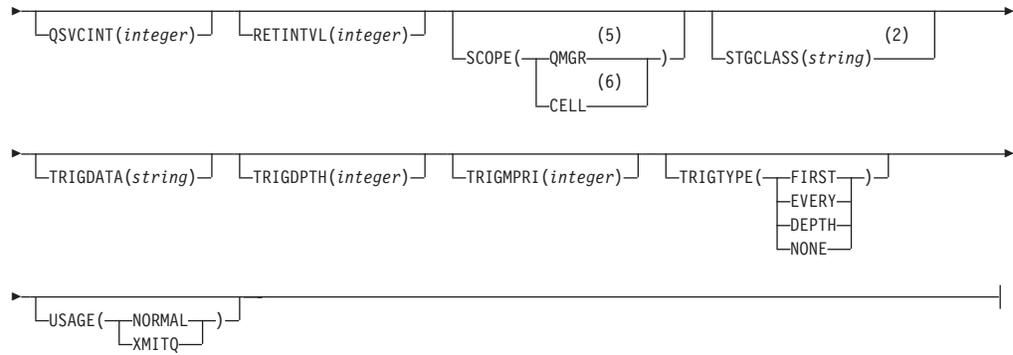
Common q attrs:



Local q attrs:



ALTER Queues



Notes:

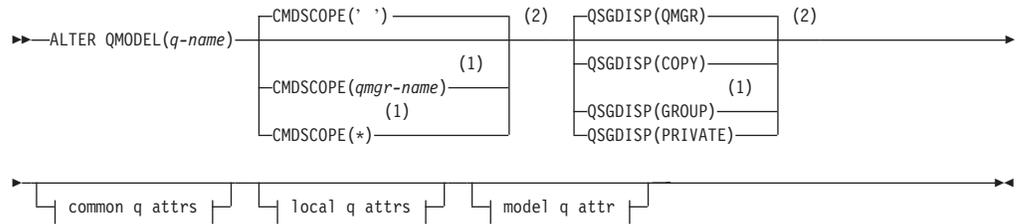
- 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- 2 Valid only on z/OS.
- 3 Valid only on AIX, HP-UX, z/OS, OS/400, Solaris, and Windows.
- 4 Valid only on AIX, HP-UX, OS/400, Solaris, and Windows.
- 5 Valid only on Compaq OpenVMS, OS/400, UNIX systems, and Windows.
- 6 Valid only on Compaq OpenVMS, UNIX systems, and Windows.

ALTER QMODEL

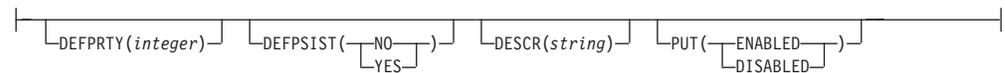
Use ALTER QMODEL to alter the parameters of a model queue.

Synonym: ALT QM

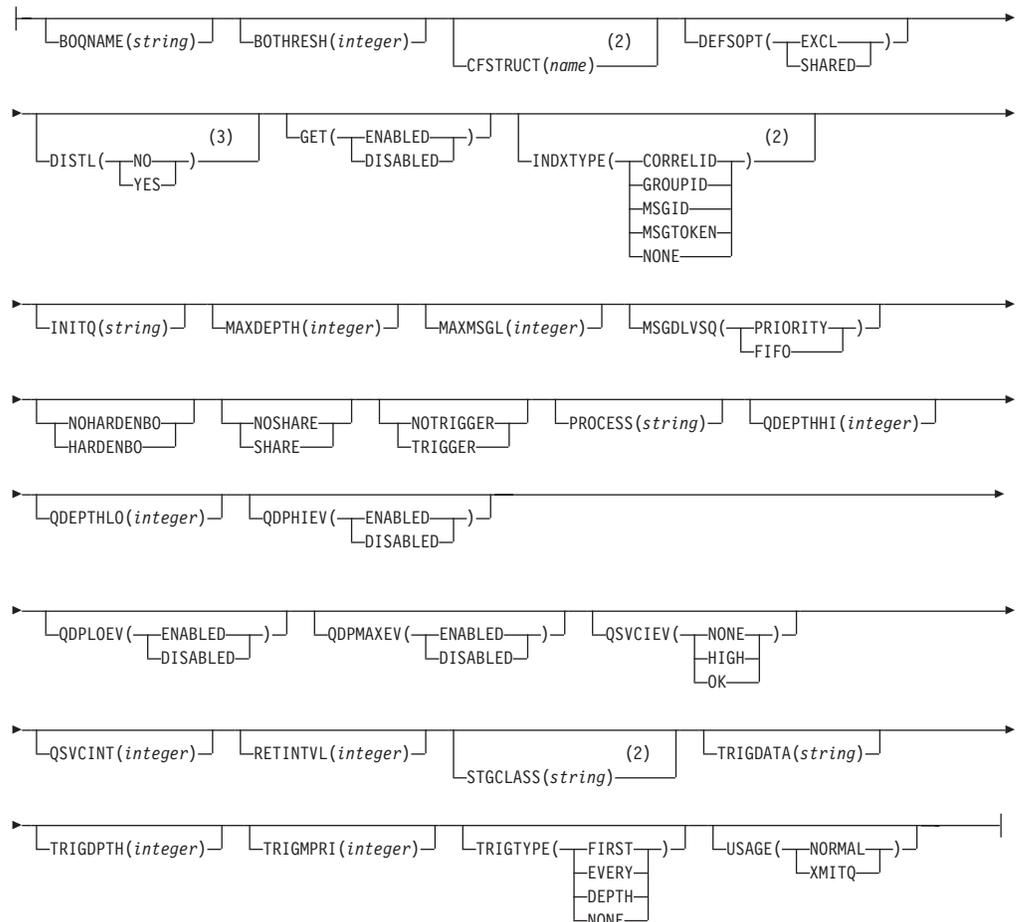
ALTER QMODEL



Common q attrs:



Local q attrs:



ALTER Queues

Model q attr:



Notes:

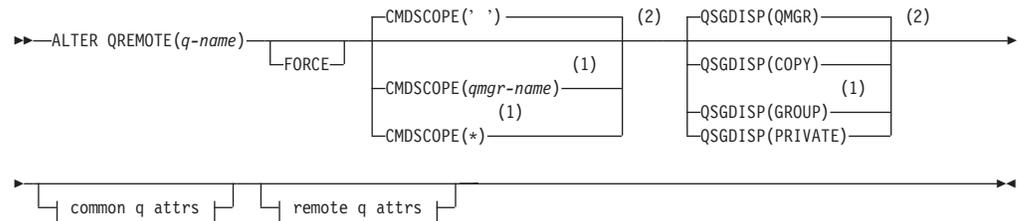
- | 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- | 2 Valid only on z/OS.
- 3 Valid only on AIX, HP-UX, OS/400, Solaris, and Windows.

ALTER QREMOTE

Use ALTER QREMOTE to alter the parameters of a local definition of a remote queue, a queue-manager alias, or a reply-to queue alias.

Synonym: ALT QR

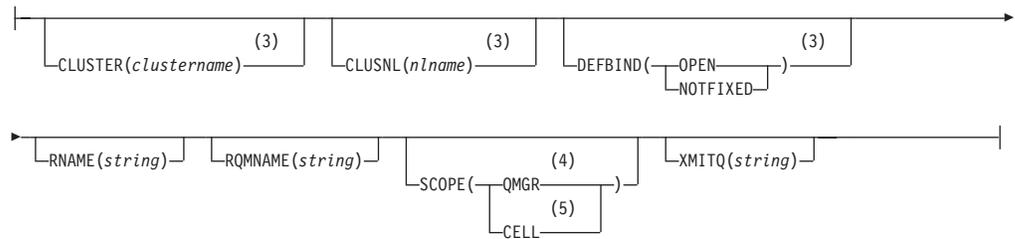
ALTER QREMOTE



Common q attrs:



Remote q attrs:



Notes:

|
|

- 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- 2 Valid only on z/OS.
- 3 Valid only on AIX, HP-UX, z/OS, OS/400, Solaris, and Windows.
- 4 Valid only on Compaq OpenVMS, OS/400, UNIX systems, and Windows.
- 5 Valid only on Compaq OpenVMS, UNIX systems, and Windows.

Parameter descriptions

For a description of the parameters see "DEFINE queues" on page 129.

ALTER SECURITY

ALTER SECURITY

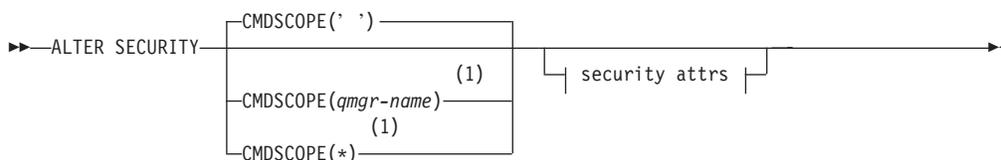
Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
						12CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

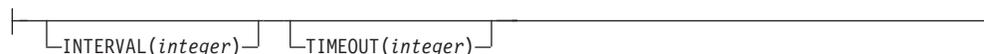
Use ALTER SECURITY to define system-wide security options.

Synonym: ALT SEC

ALTER SECURITY



Security attrs:



Notes:

- Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.

Parameter descriptions

The parameters you specify override the current parameter values. Attributes that you do not specify are unchanged.

Note: If you do not specify any parameters, the command completes successfully, but no security options are changed.

CMDSCOPE

This parameter specifies how the command is executed when the queue manager is a member of a queue-sharing group.

CMDSCOPE cannot be used for commands issued from the first initialization input data set CSQINP1.

' ' The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

ALTER SECURITY

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

- * The command is executed on the local queue manager and is also passed to every active queue manager in the queue-sharing group. The effect of this is the same as entering the command on every queue manager in the queue-sharing group.

INTERVAL(*integer*)

The interval between checks for user IDs and their associated resources to determine whether the TIMEOUT has expired. The value is in minutes, in the range zero through 10080 (one week). If INTERVAL is specified as zero, no user timeouts occur.

TIMEOUT(*integer*)

How long security information about an unused user ID and associated resources is retained by WebSphere MQ. The value specifies a number of minutes in the range zero through 10080 (one week). If TIMEOUT is specified as zero, and INTERVAL is nonzero, all such information is discarded by the queue manager every INTERVAL number of minutes.

The length of time that an unused user ID and associated resources is retained by WebSphere MQ depends on the value of INTERVAL. The user ID times out at a time between TIMEOUT and TIMEOUT plus INTERVAL.

When the TIMEOUT and INTERVAL parameters are changed, the previous timer request is canceled and a new timer request is scheduled immediately, using the new TIMEOUT value. When the timer request is actioned, a new value for INTERVAL is set.

ALTER STGCLASS

ALTER STGCLASS

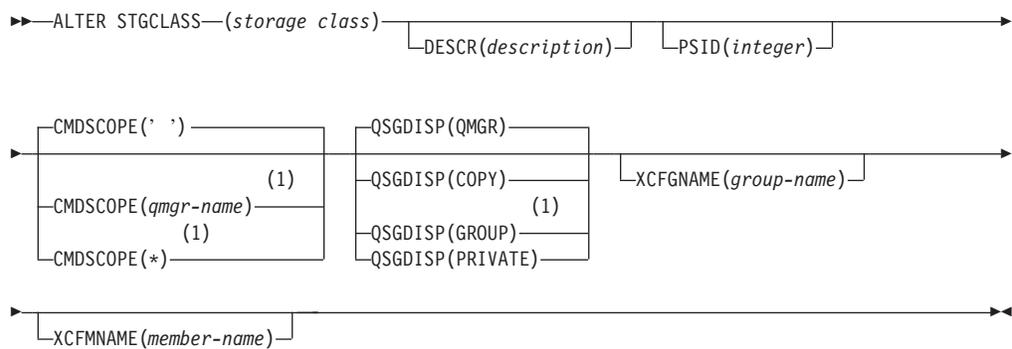
Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
						2CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use ALTER STGCLASS to alter the characteristics of a storage class.

Synonym: ALT STC

ALTER STGCLASS



Notes:

- Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.

Parameter descriptions

For a description of the parameters see “DEFINE STGCLASS” on page 155.

ALTER TRACE

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
						12CR

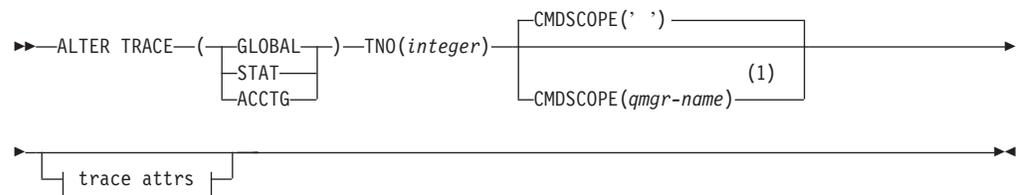
For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use ALTER TRACE to change the trace events being traced for a particular active trace. ALTER TRACE stops the specified trace, and restarts it with the altered parameters.

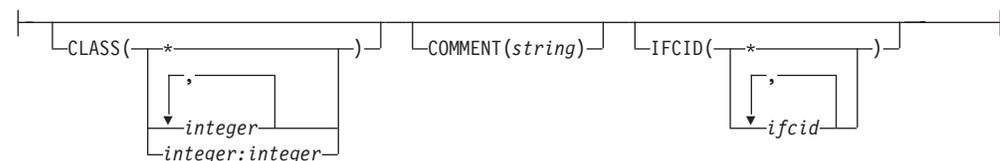
Note: If the specified trace applies to RMID 231, and the channel initiator is active, it cannot be altered.

Synonym: ALT TRACE

ALTER TRACE



Trace attrs:



Notes:

- Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.

Parameter descriptions

Specify one of the following trace types:

GLOBAL Service data from the entire queue manager (the synonym is G)
STAT Statistical data (the synonym is S)
ACCTG Accounting data (the synonym is A)

And:

TNO(integer)

The number of the trace to be altered. You can specify only one trace number.

ALTER TRACE

CMDSCOPE

This parameter specifies how the command is executed when the queue manager is a member of a queue-sharing group.

CMDSCOPE cannot be used for commands issued from the first initialization input data set CSQINP1.

' ' The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

Trace parameters

CLASS(*integer*)

| The new trace class. See "START TRACE" on page 326 for a list of allowed
| classes. A range of classes can be specified as *m:n* (for example,
| CLASS(01:03)). CLASS(*) activates all classes.

COMMENT(*string*)

A comment that is reproduced in the trace output record (except in the resident trace tables).

string is any character string. If it includes blanks, commas, or special characters, it must be enclosed between single quotation marks (').

IFCID(*ifcid*)

| Reserved for IBM Service.
|

ARCHIVE LOG

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
						12CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use ARCHIVE LOG as part of your backup procedure. It takes a copy of the current active log (or both logs if you are using dual logging).

In detail, it does the following:

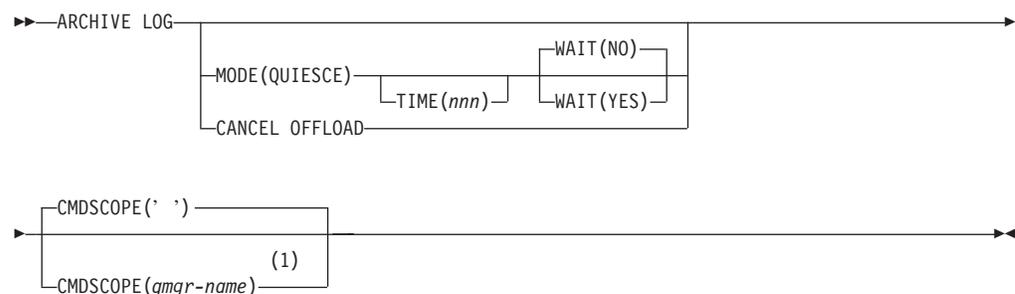
1. Truncates the current active log data sets.
2. Continues logging, switching to the next active log data set.
3. Starts a task to off-load the data sets.
4. Archives previous active log data sets not yet archived.

If the MODE(QUIESCE) parameter is used, the ARCHIVE LOG command quiesces (suspends) all user update activity on the current active log before the off-load process. Once a system-wide point of consistency is reached (that is, when all currently active update users have reached a commit point), the current active log data set is immediately truncated, and the off-load process is initiated. The resulting point of consistency is captured in the current active log before it is off-loaded.

Normally, control returns to the user immediately, and the quiescing is done asynchronously. However, if the WAIT(YES) parameter is used, the quiescing is done synchronously, and control does not return to the user until it has finished.

Synonym: ARC LOG

ARCHIVE LOG



Notes:

- 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.

Parameter descriptions

All the parameters are optional. If none are specified, the current active log data sets are switched and off-loaded immediately.

ARCHIVE LOG

CANCEL OFFLOAD

Cancels any off-loading currently in progress and restarts the off-load process. The process starts with the oldest active log data set and proceeds through all the active data sets that need off-loading.

Use this command only if the off-load task does not appear to be working, or if you want to restart a previous off-load attempt that failed.

CMDSCOPE

This parameter specifies how the command is executed when the queue manager is a member of a queue-sharing group.

CMDSCOPE cannot be used for commands issued from the first initialization input data set CSQINP1.

' ' The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

MODE(QUIESCE)

Stops any new update activity on the queue manager, and brings all existing users to a point of consistency after a commit. When this state is reached, or the number of active users is zero, the current active log is archived.

The time that the queue manager waits to reach such a state is limited to the value specified by QUIESCE in the CSQ6ARVP system parameter macro. The value of QUIESCE can be overridden by the TIME parameter of this command. If activity has not quiesced in that time, the command fails; no off-load is done, and logging continues with the current active log data set.

TIME(*nnn*)

Overrides the quiesce time period specified by the QUIESCE value of the CSQ6ARVP system parameter macro.

nnn is the time, in seconds, in the range 001 through 999.

To specify the TIME parameter, you must also specify MODE(QUIESCE).

If you specify the TIME parameter, you must specify an appropriate value for the quiesce period. If you make the period too short or too long, one of the following problems might occur:

- The quiesce might not be complete
- WebSphere MQ lock contention might develop
- A timeout might interrupt the quiesce

WAIT

Specifies whether WebSphere MQ is to wait until the quiesce process has finished before returning to the issuer of the ARCHIVE LOG command.

To specify the WAIT parameter, you must also specify MODE(QUIESCE).

NO Specifies that control is returned to the issuer when the quiesce

process starts. (The synonym is N.) This makes the quiesce process asynchronous to the issuer; you can issue further MQSC commands when the ARCHIVE LOG command returns control to you. This is the default.

YES Specifies that control is returned to the issuer when the quiesce process finishes. (The synonym is Y.) This makes the quiesce process synchronous to the issuer; further MQSC commands are not processed until the ARCHIVE LOG command finishes.

Usage notes

1. You cannot issue an ARCHIVE LOG command while a previous ARCHIVE LOG command is in progress.
2. You cannot issue an ARCHIVE LOG command when the active log data set is the last available active log data set, because it would use all the available active log data set space, and WebSphere MQ would halt all processing until an off-load had been completed.
3. You can issue an ARCHIVE LOG command without the MODE(QUIESCE) option when a STOP QMGR MODE(QUIESCE) is in progress, but not when a STOP QMGR MODE (FORCE) is in progress.
4. You can issue a DISPLAY THREAD command to discover whether an ARCHIVE LOG command is active. If an ARCHIVE LOG command is active, the DISPLAY command returns message CSQV400I.
5. You can issue an ARCHIVE LOG command even if archiving is not being used (that is, OFFLOAD is set to NO in the CSQ6LOGP system parameter macro), or dynamically using the SET LOG command. In this case, the current active log data sets are truncated and logging continues using the next active log data set, but there is no off-loading to archive data sets.

|
|
|
|
|

BACKUP CFSTRUCT

BACKUP CFSTRUCT

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
						CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use BACKUP CFSTRUCT to initiate a CF application structure backup.

Note: This command is valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.

Synonym: None

BACKUP CFSTRUCT

```
➤➤—BACKUP CFSTRUCT(structure-name) [CMDSCOPE(' ') | CMDSCOPE(qmgr-name)] [EXCLINT(integer)]➤➤
```

Keyword and parameter descriptions

structure-name

The name of the Coupling Facility application structure to be backed up.

The name:

- Cannot have more than 12 characters.
- Must start with an uppercase letter (A through Z).
- Can include only the characters A through Z and 0 through 9.

The name of the queue-sharing group to which the queue manager is connected is prefixed to the name you supply. The name of the queue-sharing group is always four characters, padded with @ symbols if necessary. For example, if you use a queue-sharing group named NY03, and you supply the name PRODUCT7, the resultant Coupling Facility structure name is NY03PRODUCT7.

CMDSCOPE

This parameter specifies how the command is executed when the queue manager is a member of a queue-sharing group.

CMDSCOPE cannot be used for commands issued from the first initialization input data set CSQINP1.

'' The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

BACKUP CFSTRUCT

You can specify a queue manager name other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and the command server is enabled.

EXCLINT(*integer*)

Specifies a value in seconds that defines the length of time immediately before the current time where the backup starts. The backup excludes backing-up the last *n* seconds activity. For example, if EXCLINT(30) is specified, the backup does not include the last 30 seconds worth of activity for this application-structure.

The value must be in the range 30 through 600. The default value is 30.

Usage notes

1. You can concurrently run separate backups for different application structures on different queue managers within the queue-sharing group. You can also concurrently run separate backups for different application structures on the same queue manager.
2. This command fails if the specified CF structure is defined with either a CFLEVEL less than 3, or with RECOVER set to NO.
3. The command fails if a specified application structure is currently in the process of being backed up by another queue manager within the queue-sharing group.

CLEAR QLOCAL

CLEAR QLOCAL

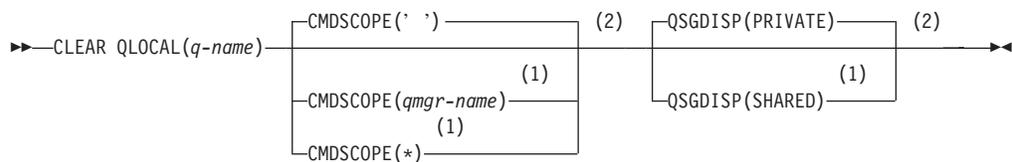
Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
✓	✓	✓	✓	✓	✓	2CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use CLEAR QLOCAL to clear the messages from a local queue.

Synonym: CLEAR QL

CLEAR QLOCAL



Notes:

- Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- Valid only on z/OS.

Parameter descriptions

You must specify which local queue you want to clear.

The command fails if either:

- The queue has uncommitted messages that have been put on the queue under syncpoint
- The queue is currently open by an application (with any open options)

If an application has this queue open, or has a queue open that eventually resolves to this queue, the command fails. The command also fails if this queue is a transmission queue, and any queue that is, or resolves to, a remote queue that references this transmission queue, is open.

(q-name)

The name of the local queue to be cleared. The name must be defined to the local queue manager.

CMDSCOPE

This parameter applies to z/OS only and specifies how the command is executed when the queue manager is a member of a queue-sharing group.

CMDSCOPE must be blank, or the local queue manager, if QSGDISP is set to SHARED.

' '

The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

- * The command is executed on the local queue manager and is also passed to every active queue manager in the queue-sharing group. The effect of this is the same as entering the command on every queue manager in the queue-sharing group.

QSGDISP

Specifies whether or not the queue definition is shared. This parameter applies to z/OS only.

PRIVATE

Clear only the private queue named *q-name*. The queue is private if it was defined using a command that had the parameters QSGDISP(COPY) or QSGDISP(QMGR). This is the default value.

SHARED

Clear only the shared queue named *q-name*. The queue is shared if it was defined using a command that had the parameters QSGDISP(SHARED).

Usage notes

On Compaq NSK, the command cannot detect when uncommitted messages are being backed out from a queue, so you should verify that the queue files are not open before running the command.

DEFINE AUTHINFO

DEFINE AUTHINFO

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
		✓		✓	✓	2CR

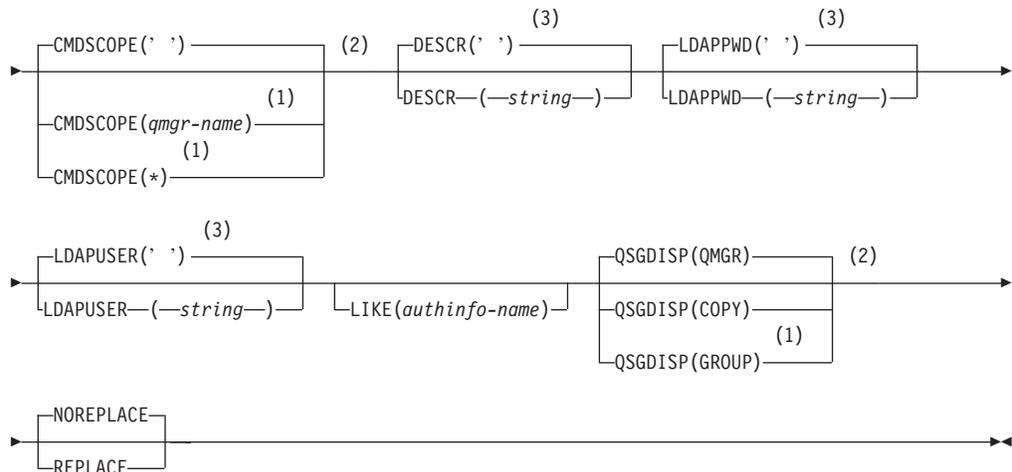
For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use DEFINE AUTHINFO to define an authentication information object. These objects contain the definitions required to perform Certificate Revocation List (CRL) checking using LDAP servers, except on OS/400 where these are defined by the Digital Certificate Manager for each Certification Authority.

Synonym: DEF AUTHINFO

DEFINE AUTHINFO

►► DEFINE AUTHINFO(*name*)—AUTHTYPE(CRLLDAP)—CONNAM(*string*)—►►



Notes:

- 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- 2 Valid only on z/OS.
- 3 This is the default supplied with WebSphere MQ, but your installation might have changed it.

Parameter descriptions

The parameter descriptions also apply to the ALTER AUTHINFO command, with the following exceptions:

- The **AUTHTYPE** parameter applies only to the DEFINE AUTHINFO command.
- The **LIKE** parameter applies only to the DEFINE AUTHINFO command.

- The **REPLACE** and **NOREPLACE** parameter applies only to the **DEFINE AUTHINFO** command.

name Name of the authentication information object. This is required.

The name must not be the same as any other authentication information object name currently defined on this queue manager (unless **REPLACE** or **ALTER** is specified). See “Rules for naming WebSphere MQ objects” on page 4.

AUTHTYPE

The type of authentication information. The value must be **CRLLDAP**, meaning that Certificate Revocation List checking is done using LDAP servers.

CMDSCOPE

This parameter applies to z/OS only and specifies how the command is executed when the queue manager is a member of a queue-sharing group.

CMDSCOPE must be blank, or the local queue manager, if **QSGDISP** is set to **GROUP**.

' ' The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name other than the queue manager on which it was entered, only if you are using a shared queue environment and if the command server is enabled.

***** The command is executed on the local queue manager and is also passed to every active queue manager in the queue-sharing group. The effect of this is the same as entering the command on every queue manager in the queue-sharing group.

CONNNAME(string)

The DNS name or IP address of the host on which the LDAP server is running, with an optional port number. This keyword is required.

The syntax for **CONNNAME** is the same as for channels. For example, `connname('hostname(nnn)')`

where *nnn* is the port number. If *nnn* is not provided, the default port number 389 is used.

The maximum length for the field is 264 characters on OS/400, UNIX systems, and Windows, and 48 characters on z/OS.

DESCR(string)

Plain-text comment. It provides descriptive information about the authentication information object when an operator issues the **DISPLAY AUTHINFO** command (see “DISPLAY AUTHINFO” on page 178).

It should contain only displayable characters. The maximum length is 64 characters. In a DBCS installation, it can contain DBCS characters (subject to a maximum length of 64 bytes).

DEFINE AUTHINFO

Note: If characters are used that are not in the coded character set identifier (CCSID) for this queue manager, they might be translated incorrectly if the information is sent to another queue manager.

LDAPPWD(*string*)

The password associated with the Distinguished Name of the user who is accessing the LDAP server.

Its maximum size is 32 characters. The default value is blank.

LDAPUSER(*string*)

The Distinguished Name of the user who is accessing the LDAP server. (See the SSLPEER parameter on page 113 for more information about distinguished names.)

The maximum size for the user name is 1024 characters on OS/400, UNIX systems, and Windows, and 256 characters on z/OS.

The maximum accepted line length is defined to be BUFSIZ, which can be found in stdio.h.

If you use asterisks (*) in the user name they are treated as literal characters, and not as wild cards, because LDAPUSER is a specific name and not a string used for matching.

LIKE(*authinfo-name*)

The name of an authentication information object, whose parameters will be used to model this definition.

If this field is not filled in, and you do not complete the parameter fields related to the command, the values are taken from the default definition for an object of this type. This is equivalent to specifying LIKE(SYSTEM.DEFAULT.AUTHINFO.CRLLDAP).

A default authentication information object definition is provided, but it can be altered by the installation to the default values required. See “Rules for naming WebSphere MQ objects” on page 4.

On WebSphere MQ for z/OS, the queue manager searches page set zero for an object with the name you specify. The disposition of the LIKE object is not copied to the object you are defining.

QSGDISP

This parameter applies to z/OS only.

Specifies the disposition of the object to which you are applying the command (that is, where it is defined and how it behaves).

QSGDISP	ALTER	DEFINE
COPY	The object definition resides on the page set of the queue manager that executes the command. The object was defined using a command that had the parameters QSGDISP(COPY). Any object residing in the shared repository, or any object defined using a command that had the parameters QSGDISP(QMGR), is not affected by this command.	The object is defined on the page set of the queue manager that executes the command using the QSGDISP(GROUP) object of the same name as the 'LIKE' object.

QSGDISP	ALTER	DEFINE
GROUP	The object definition resides in the shared repository. The object was defined using a command that had the parameters QSGDISP(GROUP). Any object residing on the page set of the queue manager that executes the command (except a local copy of the object) is not affected by this command. If the command is successful, the following command is generated and sent to all active queue managers in the queue-sharing group so that they refresh local copies on page set zero: DEFINE AUTHINFO(name) REPLACE QSGDISP(COPY)	The object definition resides in the shared repository. This is allowed only if the queue manager is in a queue-sharing group. If the definition is successful, the following command is generated and sent to all active queue managers in the queue-sharing group so that they make or refresh local copies on page set zero: DEFINE AUTHINFO(name) REPLACE QSGDISP(COPY)
PRIVATE	The object resides on the page set of the queue manager that executes the command, and was defined with QSGDISP(QMGR) or QSGDISP(COPY). Any object residing in the shared repository is unaffected.	Not permitted.
QMGR	The object definition resides on the page set of the queue manager that executes the command. The object was defined using a command that had the parameters QSGDISP(QMGR). Any object residing in the shared repository, or any local copy of such an object, is not affected by this command. This is the default value.	The object is defined on the page set of the queue manager that executes the command. This is the default value.

REPLACE and NOREPLACE

Whether the existing definition (and on z/OS, with the same disposition) is to be replaced with this one. This is optional. The default is NOREPLACE. Any object with a different disposition is not changed.

REPLACE

The definition should replace any existing definition of the same name. If a definition does not exist, one is created.

NOREPLACE

The definition should not replace any existing definition of the same name.

Usage Notes

1. On OS/400, authentication information objects are only used for channels of type CLNTCONN through use of the AMQCLCHL.TAB. Certificates are defined by Digital Certificate Manager for each Certification Authority, and are verified against the LDAP servers.

DEFINE BUFFPOOL

DEFINE BUFFPOOL

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
						1

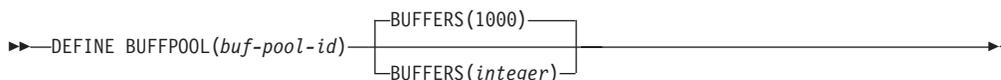
For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use DEFINE BUFFPOOL to define a buffer pool that is used for holding messages in main storage.

Note: You can use the DISPLAY USAGE TYPE(PAGESET) command to display buffer pool information (see “DISPLAY USAGE” on page 266).

Synonym: DEF BP

DEFINE BUFFPOOL



Parameter descriptions

If this command is not issued, the default number of buffers is assumed. If more than one DEFINE BUFFPOOL command is issued for the same buffer pool, only the last one is actioned.

(buf-pool-id)

Buffer pool identifier. This is required.

This is an integer in the range zero through 15.

BUFFERS*(integer)*

The number of 4096-byte buffers to be used in this buffer pool. This is optional. The default number of buffers is 1000, and the minimum is 100. The maximum number of buffers for all the buffer pools is determined by the amount of storage available in the WebSphere MQ address space.

See the *WebSphere MQ for z/OS Concepts and Planning Guide* for guidance on the number of buffers you can define in each buffer pool.

DEFINE CFSTRUCT

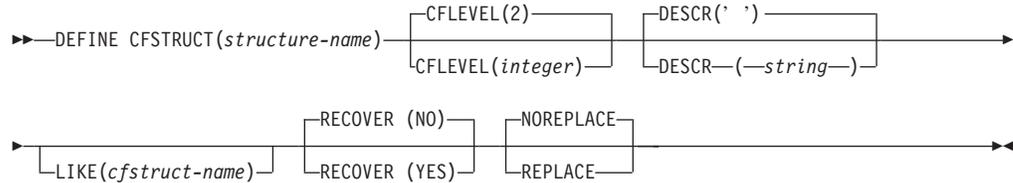
Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
						2CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use DEFINE CFSTRUCT to define the backup and recovery parameters for a Coupling Facility application structure. This command is valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.

Synonym: DEF CFSTRUCT

DEFINE CFSTRUCT



Keyword and parameter descriptions

(structure-name)

Name of the Coupling Facility application structure whose backup and recovery parameters you want to define. This is required.

The name:

- Cannot have more than 12 characters.
- Must start with an uppercase letter (A through Z).
- Can include only the characters A through Z and 0 through 9.

The name of the queue-sharing group to which the queue manager is connected is prefixed to the name you supply. The name of the queue-sharing group is always four characters, padded with @ symbols if necessary. For example, if you use a queue-sharing group named NY03 and you supply the name PRODUCT7, the resultant Coupling Facility structure name is NY03PRODUCT7. Note that the administrative structure for the queue-sharing group (in this case NY03CSQ_ADMIN) cannot be used for storing messages.

CFLEVEL(integer)

Specifies the functional capability level for this CF application structure. Value can be one of the following:

- 1 A CF structure that can be "auto-created" by a queue manager at command level 520.
- 2 A CF structure at command level 520 that can only be created or

DEFINE CFSTRUCT

deleted by a queue manager at command level 530 or greater. This is the default CFLEVEL for queue managers at command level 530 or greater.

- 3 A CF structure at command level 530. This CFLEVEL is required if you want to use persistent messages on shared queues (if RECOVER(YES) is set), or for message grouping (when a local queue is defined with INDXTYPE(GROUPID)), or both.

You can only increase the value of CFLEVEL to 3 if all the queue managers in the queue-sharing group are at command level 530 or greater - this is to ensure that there are no latent command level 520 connections to queues referencing the CFSTRUCT.

You can only decrease the value of CFLEVEL from 3 if all the queues that reference the CF structure are both empty (have no messages or uncommitted activity) and closed.

DESCR(*string*)

Plain-text comment that provides descriptive information about the object when an operator issues the DISPLAY CFSTRUCT command.

The string should contain only displayable characters. The maximum length is 64 characters. In a DBCS installation, it can contain DBCS characters (subject to a maximum length of 64 bytes).

Note: If characters are used that are not in the coded character set identifier (CCSID) for this queue manager, they might be translated incorrectly if the information is sent to another queue manager.

LIKE(*cfstruct-name*)

The name of a CFSTRUCT object, whose attributes are used to model this definition. If this field is not filled in, and you do not complete the attribute fields related to the command, the default values are used.

RECOVER

Specifies whether CF recovery is supported for the application structure. Values are:

NO CF application structure recovery is not supported. (The synonym is **N**.)

YES CF application structure recovery is supported. (The synonym is **Y**.)

You can only set RECOVER(YES) if the structure has a CFLEVEL of 3.

You can only change RECOVER(NO) to RECOVER(YES) if all the queue managers in the queue-sharing group are at command level 530 or greater; this is to ensure that there are no latent command level 520 connections to queues referencing the CFSTRUCT.

You can only change RECOVER(YES) to RECOVER(NO) if all the queues that reference the CF structure are both empty (have no messages or uncommitted activity) and closed.

REPLACE and NOREPLACE

Defines whether the existing definition is to be replaced with this one. This parameter is optional.

REPLACE

The definition should replace any existing definition of the same name. If a definition does not exist, one is created. If you use the REPLACE option, all queues that use this CF structure must be empty and closed. Any CF structure attributes that are not specified on a DEFINE CFSTRUCT call with REPLACE are reset to their default values.

NOREPLACE

The definition should not replace any existing definition of the same name. This is the default.

Usage notes

1. This command cannot specify the CF administration structure (CSQ_ADMIN).
2. Before any newly defined CF structure can be used by any queues, the structure must be defined in the Coupling Facility Resource Management (CFRM) policy data set.
3. Only CF structures with RECOVER(YES) defined can be backed up and recovered.

DEFINE CHANNEL

DEFINE CHANNEL

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
✓	✓	✓	✓	✓	✓	2CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use DEFINE CHANNEL to define a new channel, and set its parameters.

Notes:

1. On z/OS, this is valid only for channels used for distributed queuing without CICS. If you are using CICS for distributed queuing, see the *WebSphere MQ Intercommunication* manual.
2. In general, this command is not available within the reduced function form of WebSphere MQ for z/OS supplied with WebSphere Application Server. The only channels supported in that environment are server-connection channels, the DEFINE command for which is described in “Server-connection channel” on page 88.
3. For cluster-sender channels, you can only specify the REPLACE option for channels that have been created manually.

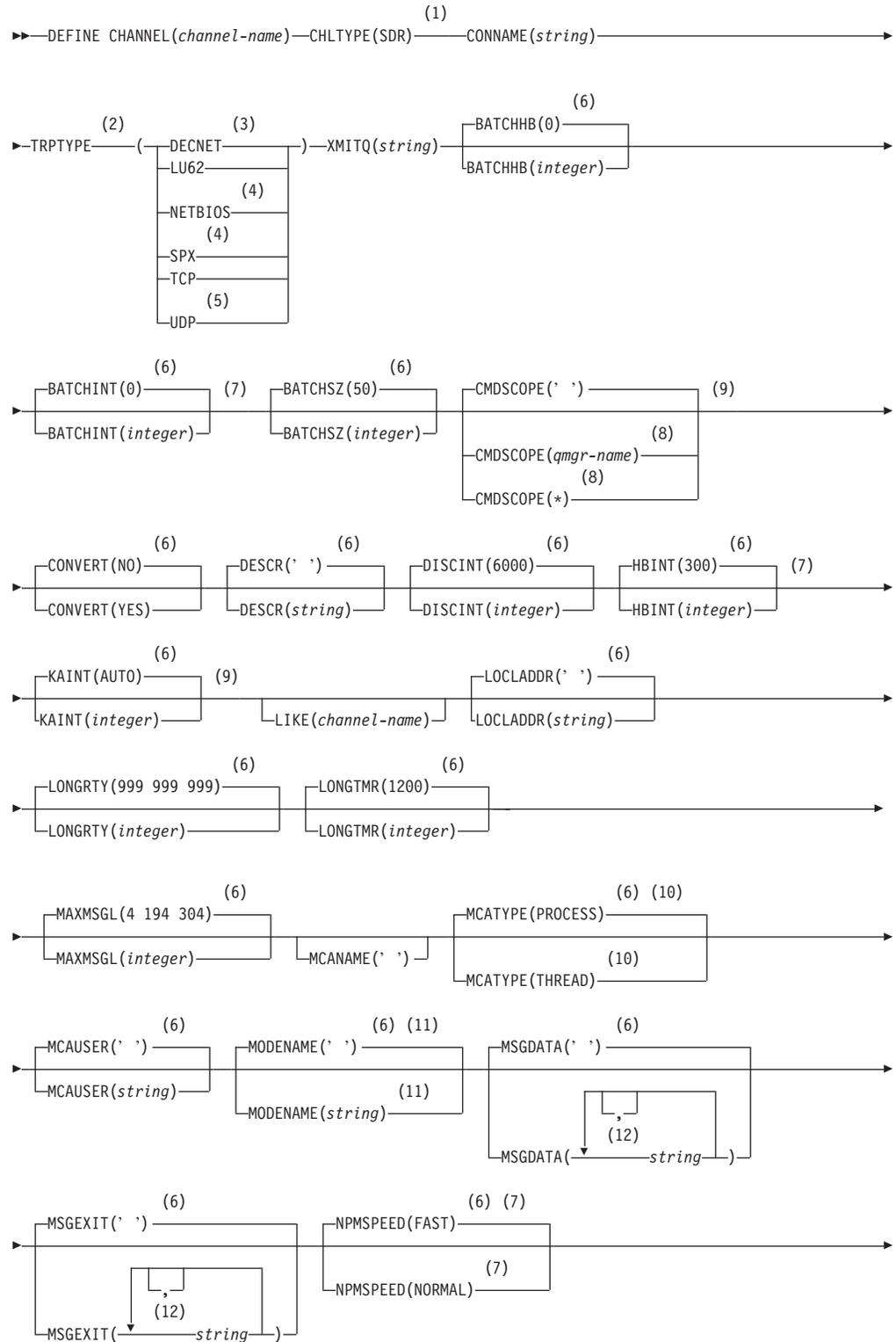
Synonym: DEF CHL

There is a separate syntax diagram for each type of channel:

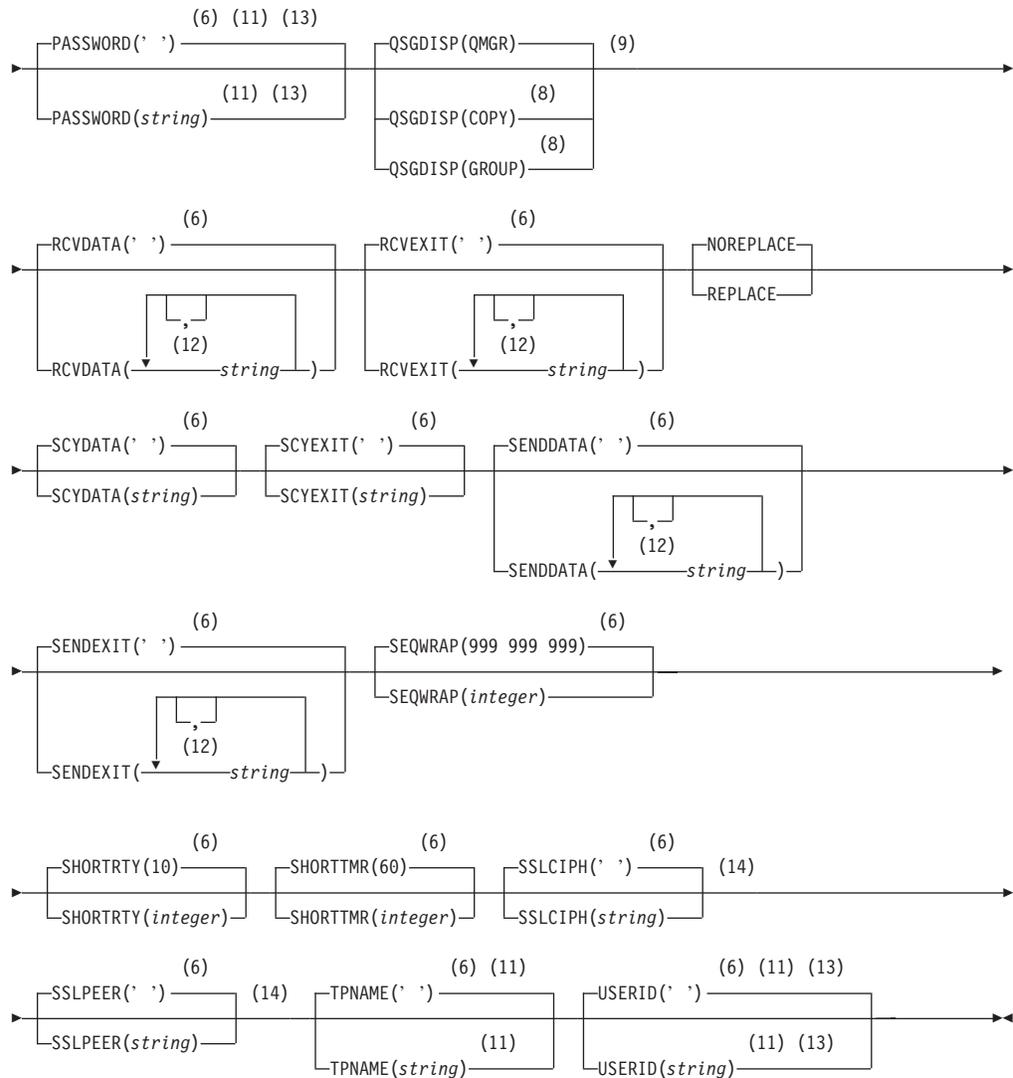
- “Sender channel” on page 75
- “Server channel” on page 78
- “Receiver channel” on page 81
- “Requester channel” on page 83
- “Client-connection channel” on page 86
- “Server-connection channel” on page 88
- “Cluster-sender channel” on page 90
- “Cluster-receiver channel” on page 92

Sender channel

DEFINE CHANNEL



DEFINE CHANNEL



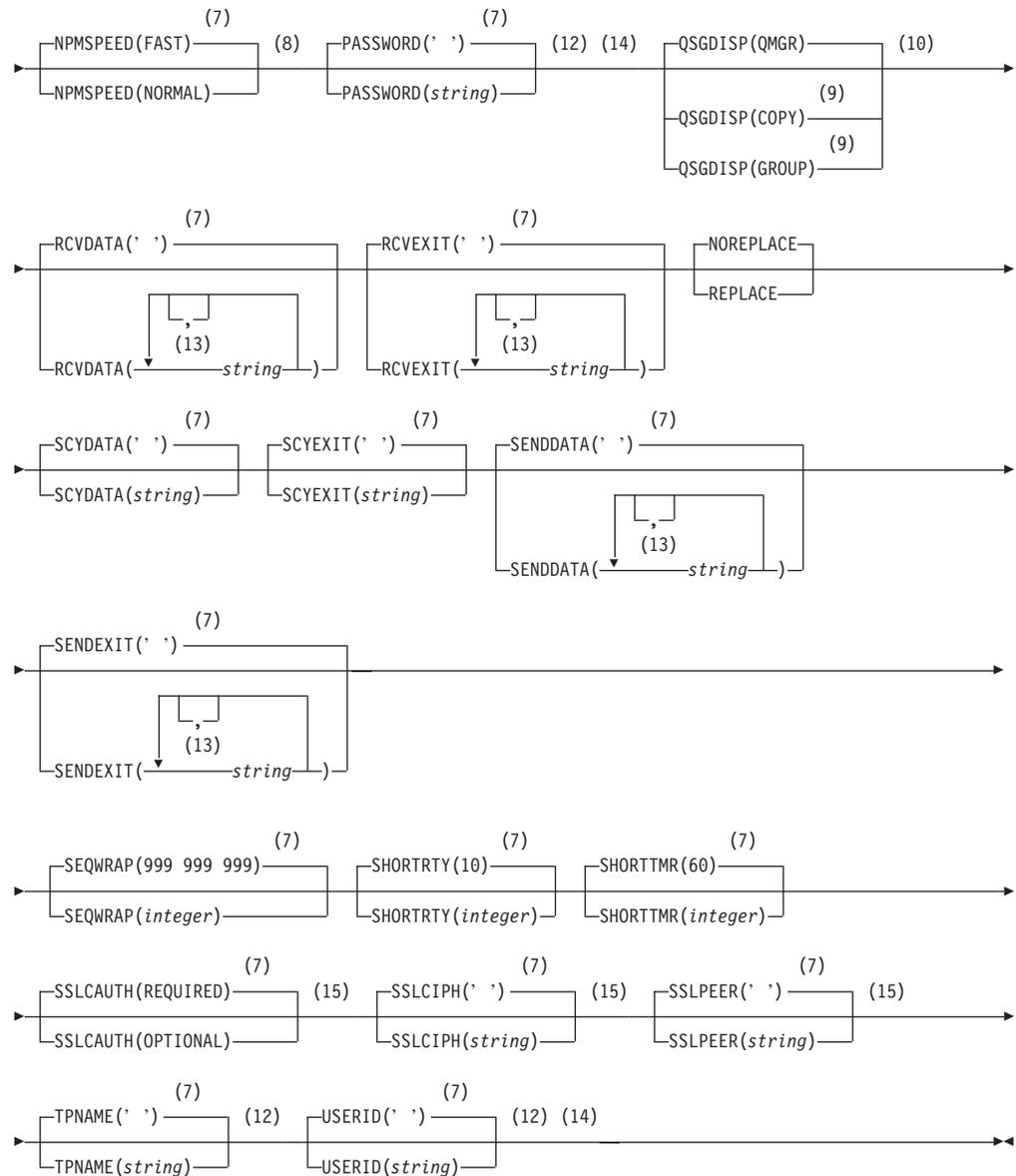
Notes:

- 1 This parameter must follow immediately after the channel name except on z/OS.
- 2 This is not mandatory on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.
- 3 Valid only on Compaq OpenVMS.
- 4 Valid only on OS/2 Warp and Windows.
- 5 Valid only on AIX.
- 6 This is the default supplied with WebSphere MQ, but your installation might have changed it.
- 7 Valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/400, Solaris, Windows, and z/OS.
- 8 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- 9 Valid only on z/OS.

DEFINE CHANNEL

- 10 Valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, and Windows.
- 11 Valid only if TRPTYPE is LU62.
- 12 You can specify more than one value only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, z/OS, Solaris, and Windows.
- 13 Not valid on z/OS.
- 14 Valid only on AIX, HP-UX, Linux, OS/400, Solaris, Windows, and z/OS.

DEFINE CHANNEL



Notes:

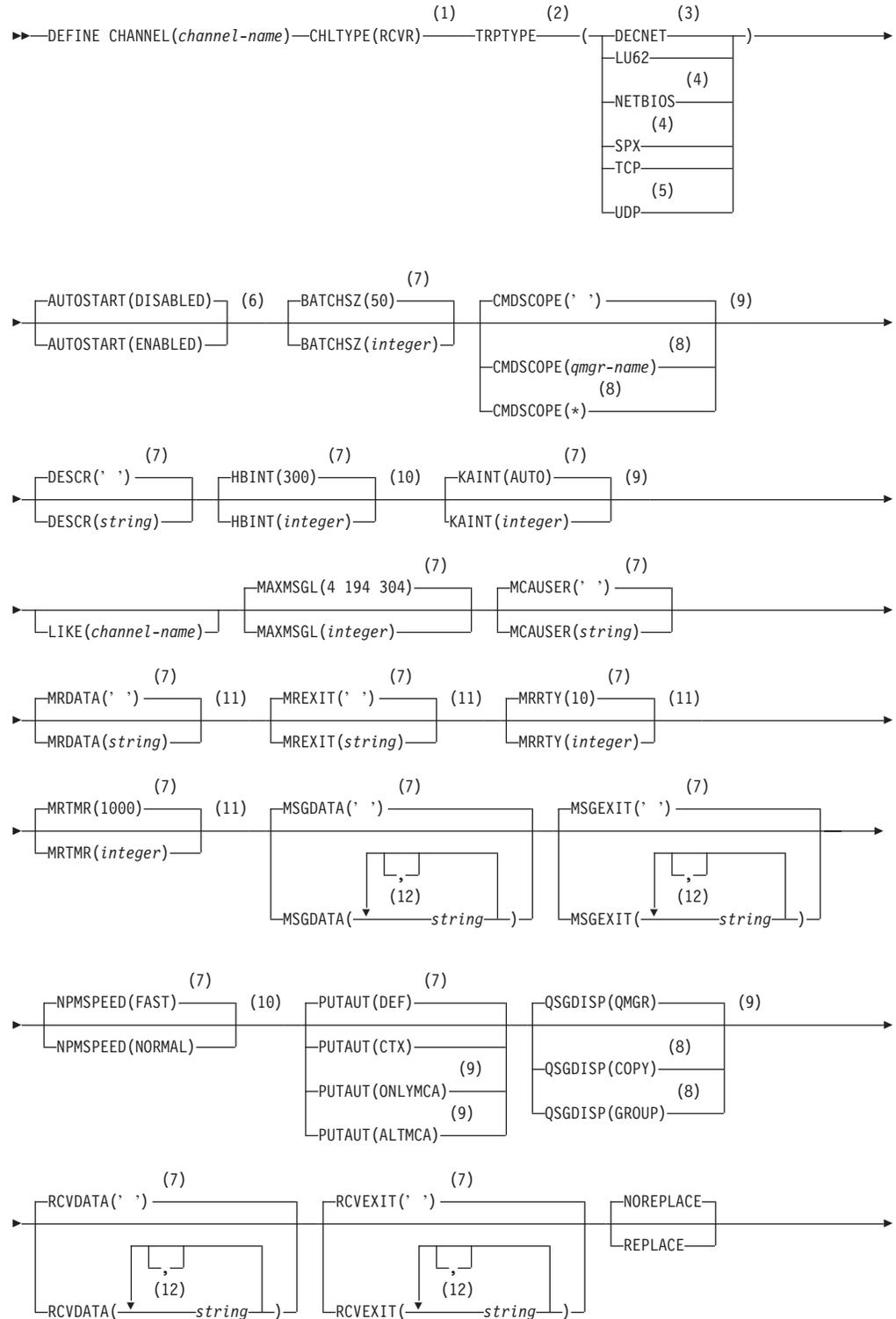
- 1 This parameter must follow immediately after the channel name except on z/OS.
- 2 This is not mandatory on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.
- 3 Valid only on Compaq OpenVMS.
- 4 Valid only on OS/2 Warp and Windows.
- 5 Valid only on AIX.
- 6 Valid only on Compaq NSK.
- 7 This is the default supplied with WebSphere MQ, but your installation might have changed it.
- 8 Valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.

DEFINE CHANNEL

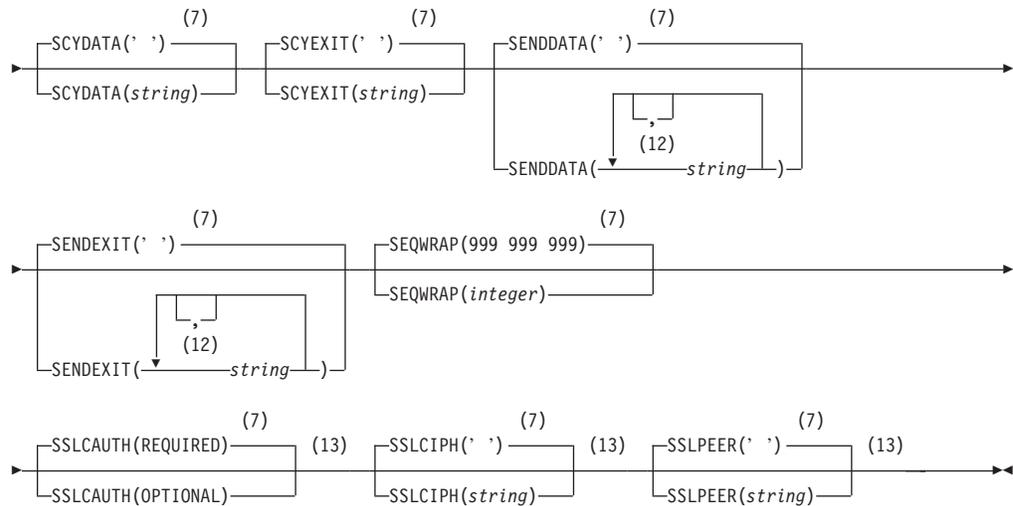
- | 9 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- | 10 Valid only on z/OS.
- 11 Valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, and Windows.
- 12 Valid only if TRPTYPE is LU62.
- 13 You can specify more than one value only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.
- 14 Not valid on z/OS.
- 15 Valid only on AIX, HP-UX, Linux, OS/400, Solaris, Windows, and z/OS.

Receiver channel

DEFINE CHANNEL



DEFINE CHANNEL

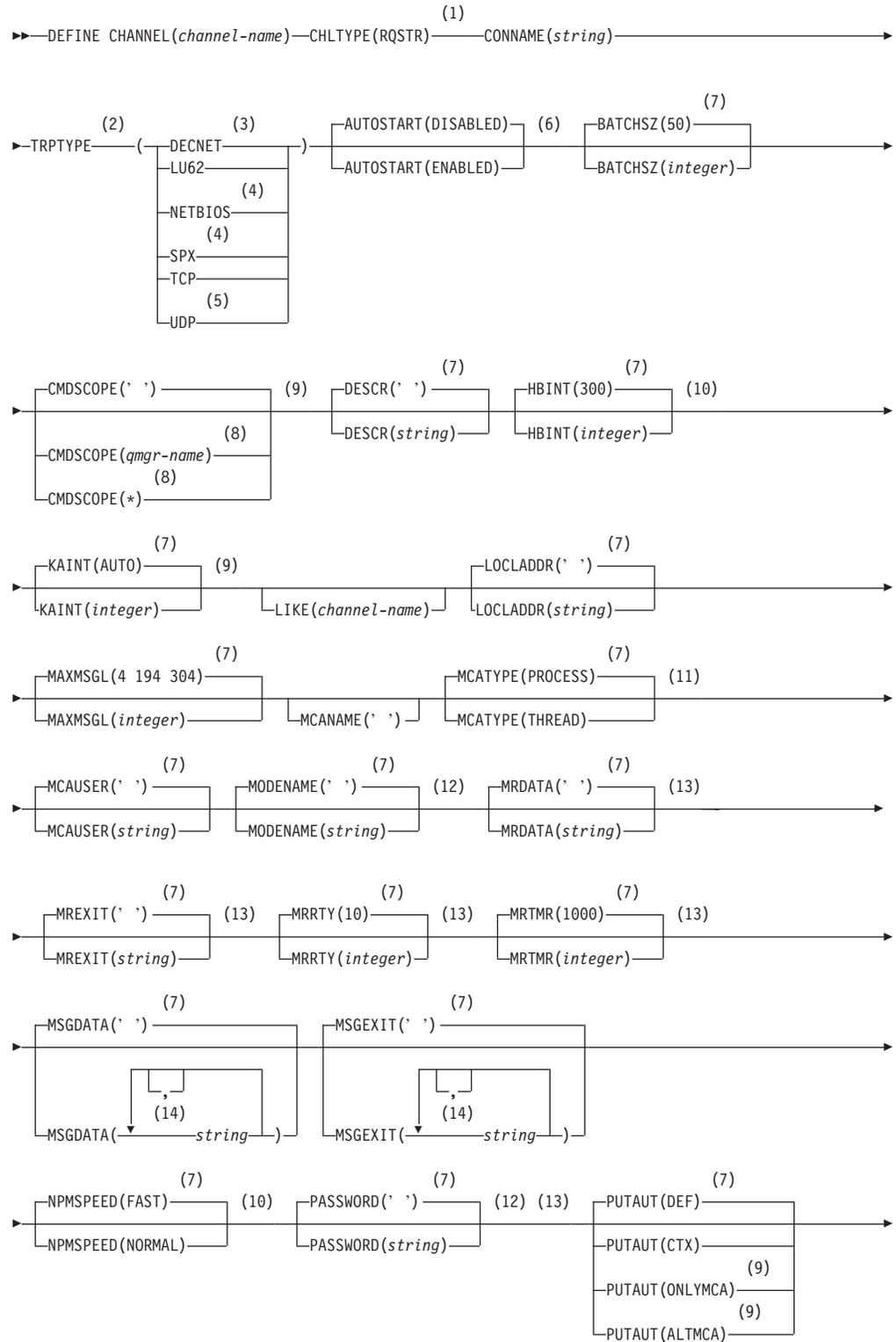


Notes:

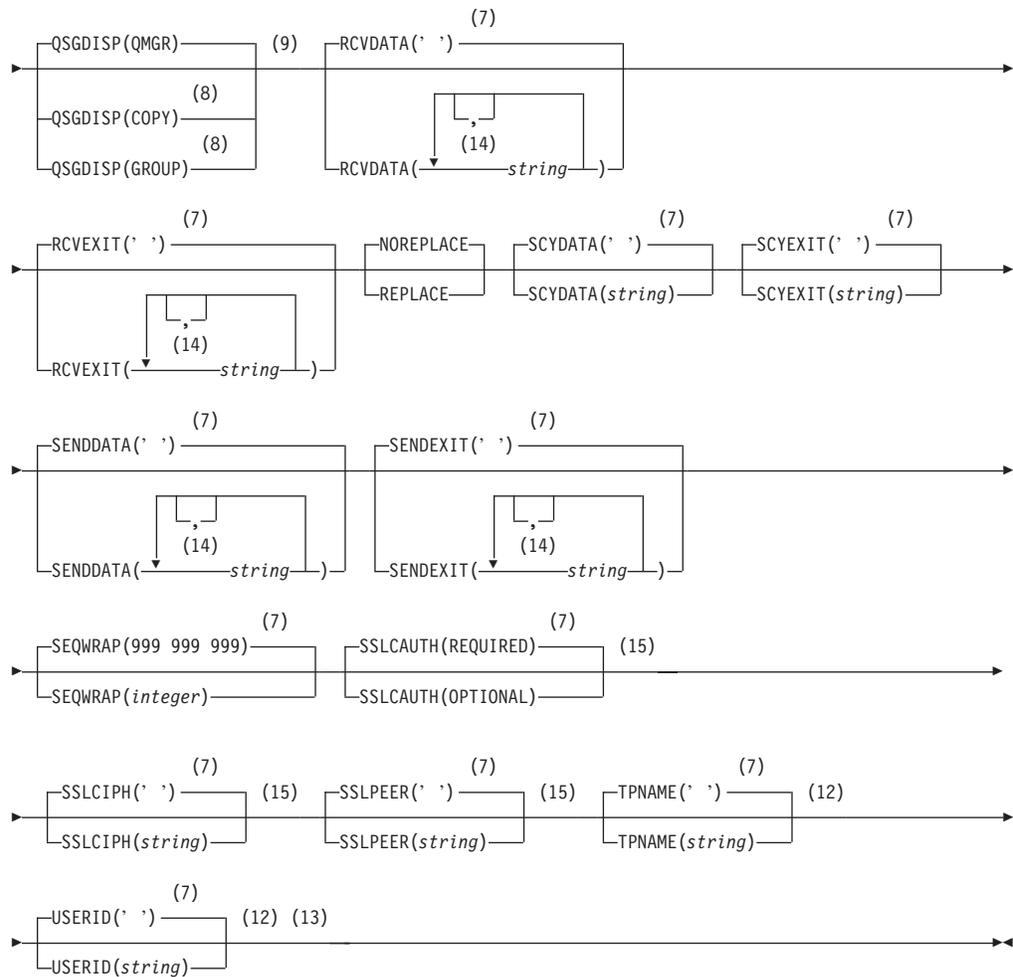
- 1 This parameter must follow immediately after the channel name except on z/OS.
- 2 This is not mandatory on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.
- 3 Valid only on Compaq OpenVMS.
- 4 Valid only on OS/2 Warp or Windows.
- 5 Valid only on AIX.
- 6 Valid only on Compaq NSK.
- 7 This is the default supplied with WebSphere MQ, but your installation might have changed it.
- 8 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- 9 Valid only on z/OS.
- 10 Valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.
- 11 Not valid on z/OS.
- 12 You can specify more than one value only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.
- 13 Valid only on AIX, HP-UX, Linux, OS/400, Solaris, Windows, and z/OS.

Requester channel

DEFINE CHANNEL



DEFINE CHANNEL



Notes:

- 1 This parameter must follow immediately after the channel name except on z/OS.
- 2 This is not mandatory on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.
- 3 Valid only on Compaq OpenVMS.
- 4 Valid only on OS/2 Warp and Windows.
- 5 Valid only on AIX.
- 6 Valid only on Compaq NSK.
- 7 This is the default supplied with WebSphere MQ, but your installation might have changed it.
- 8 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- 9 Valid only on z/OS.
- 10 Valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.
- 11 Valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, and Windows.

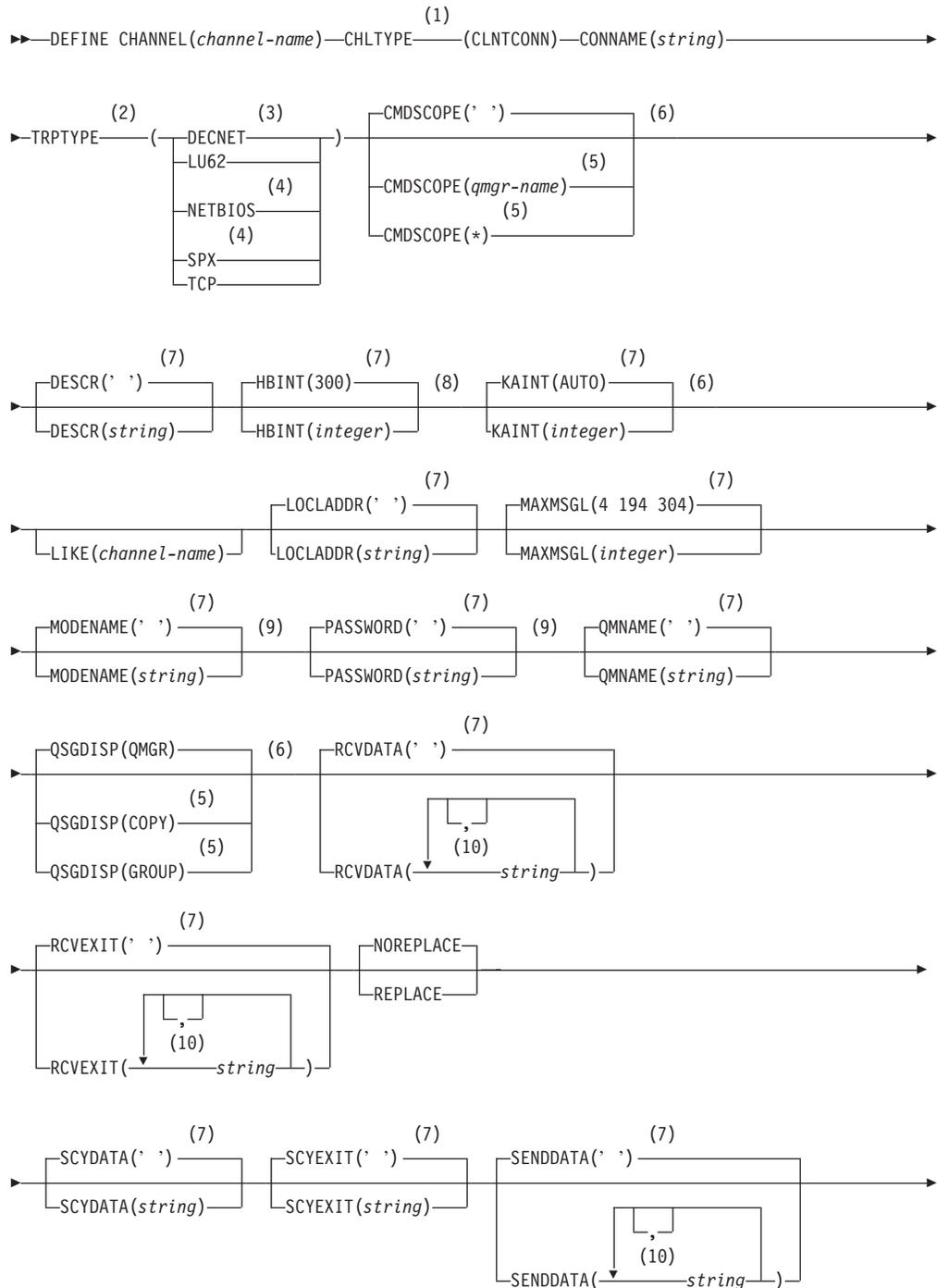
DEFINE CHANNEL

- 12 Valid only if TRPTYPE is LU62.
- 13 Not valid on z/OS.
- 14 You can specify more than one value only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.
- 15 Valid only on AIX, HP-UX, Linux, OS/400, Solaris, Windows, and z/OS.

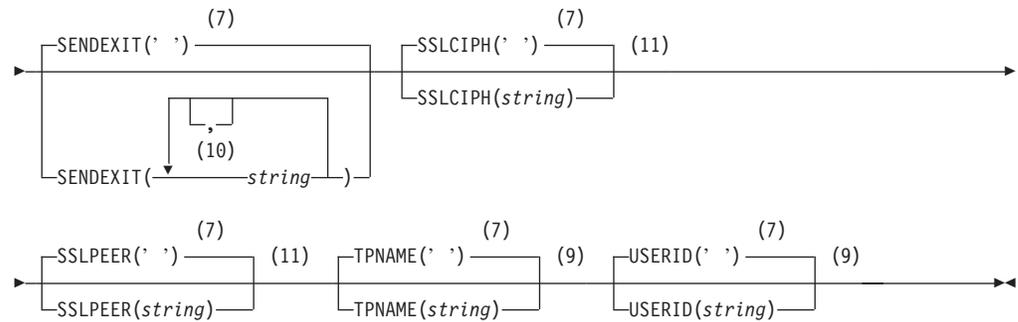
DEFINE CHANNEL

Client-connection channel

DEFINE CHANNEL



DEFINE CHANNEL



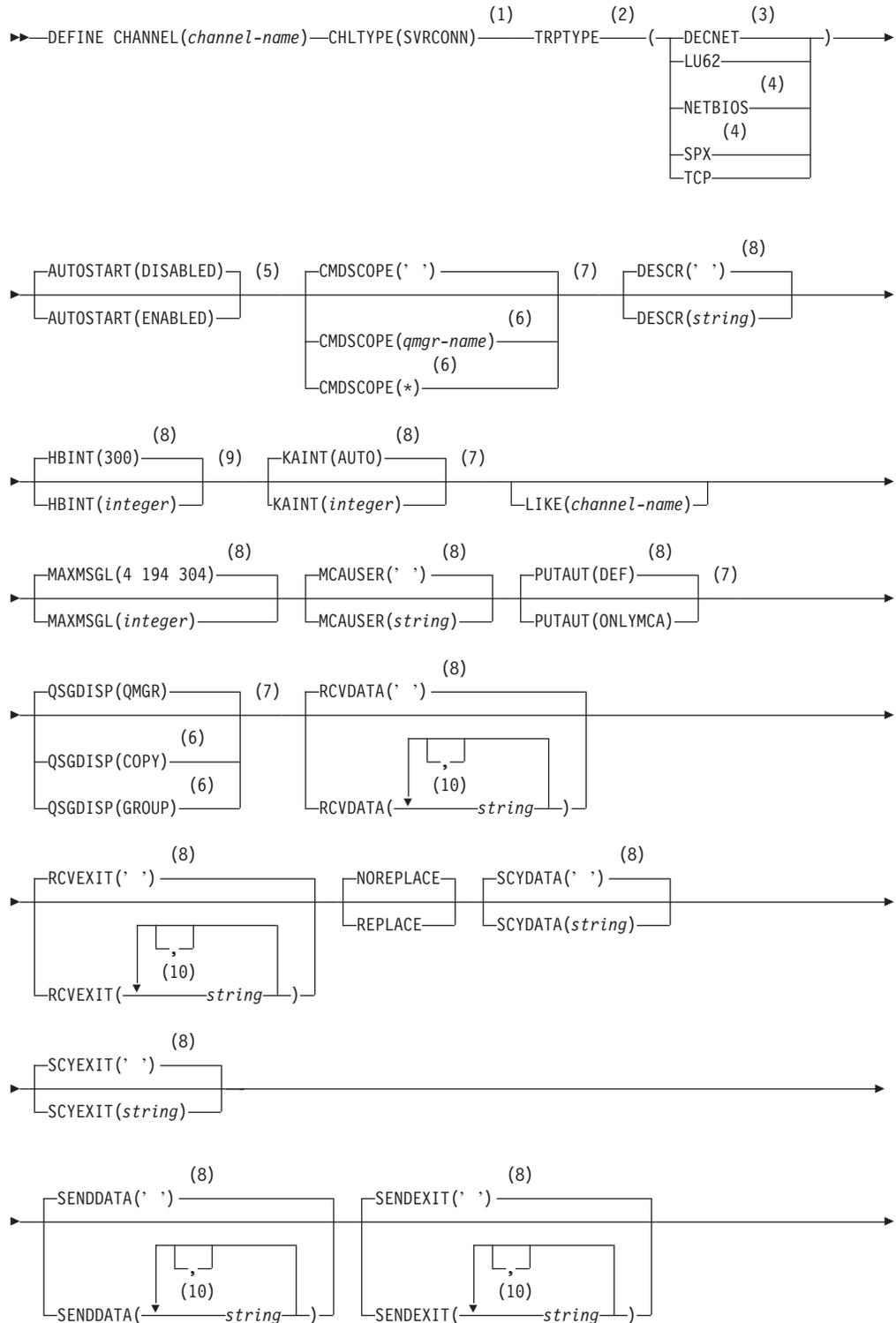
Notes:

- 1 This parameter must follow immediately after the channel name except on z/OS.
- 2 This is not mandatory on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.
- 3 Valid only on Compaq OpenVMS.
- 4 Valid only for clients to be run on DOS, OS/2 Warp, or Windows.
- 5 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- 6 Valid only on z/OS.
- 7 This is the default supplied with WebSphere MQ, but your installation might have changed it.
- 8 Valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, and Windows.
- 9 Valid only if TRPTYPE is LU62.
- 10 You can specify more than one value only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.
- 11 Valid only on AIX, HP-UX, Linux, OS/400, Solaris, Windows, and z/OS.

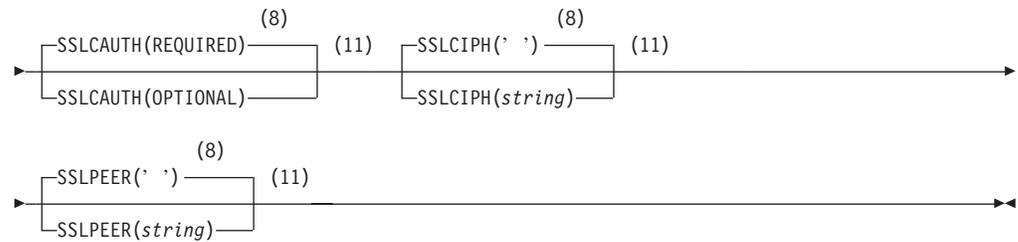
DEFINE CHANNEL

Server-connection channel

DEFINE CHANNEL



DEFINE CHANNEL



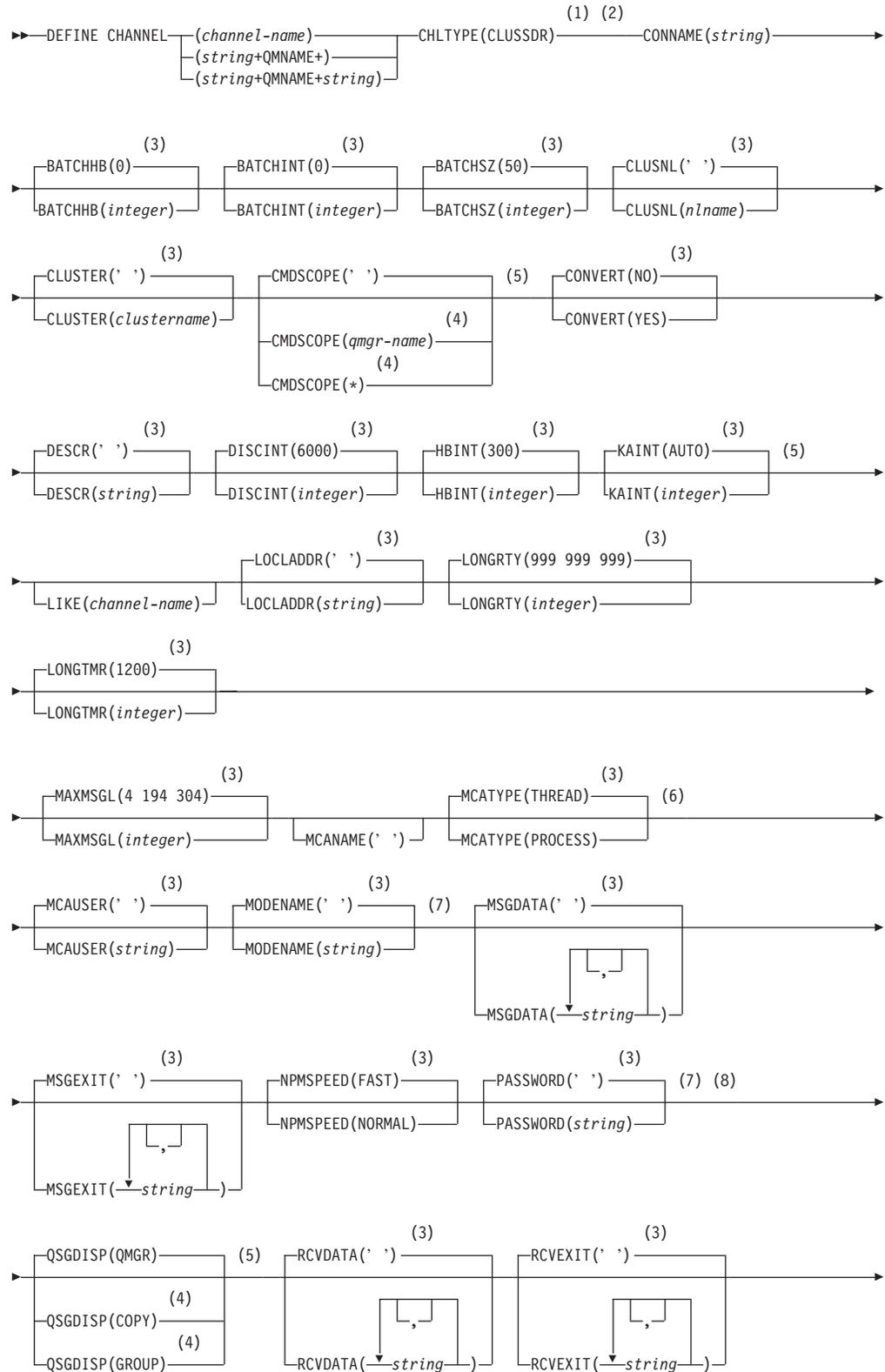
Notes:

- 1 This parameter must follow immediately after the channel name except on z/OS.
- 2 This is not mandatory on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.
- 3 Valid only on Compaq OpenVMS.
- 4 Valid only for clients to be run on DOS, OS/2 Warp, or Windows.
- 5 Valid only on Compaq NSK.
- 6 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- 7 Valid only on z/OS.
- 8 This is the default supplied with WebSphere MQ, but your installation might have changed it.
- 9 Valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, and Windows.
- 10 You can specify more than one value only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.
- 11 Valid only on AIX, HP-UX, Linux, OS/400, Solaris, Windows, and z/OS.

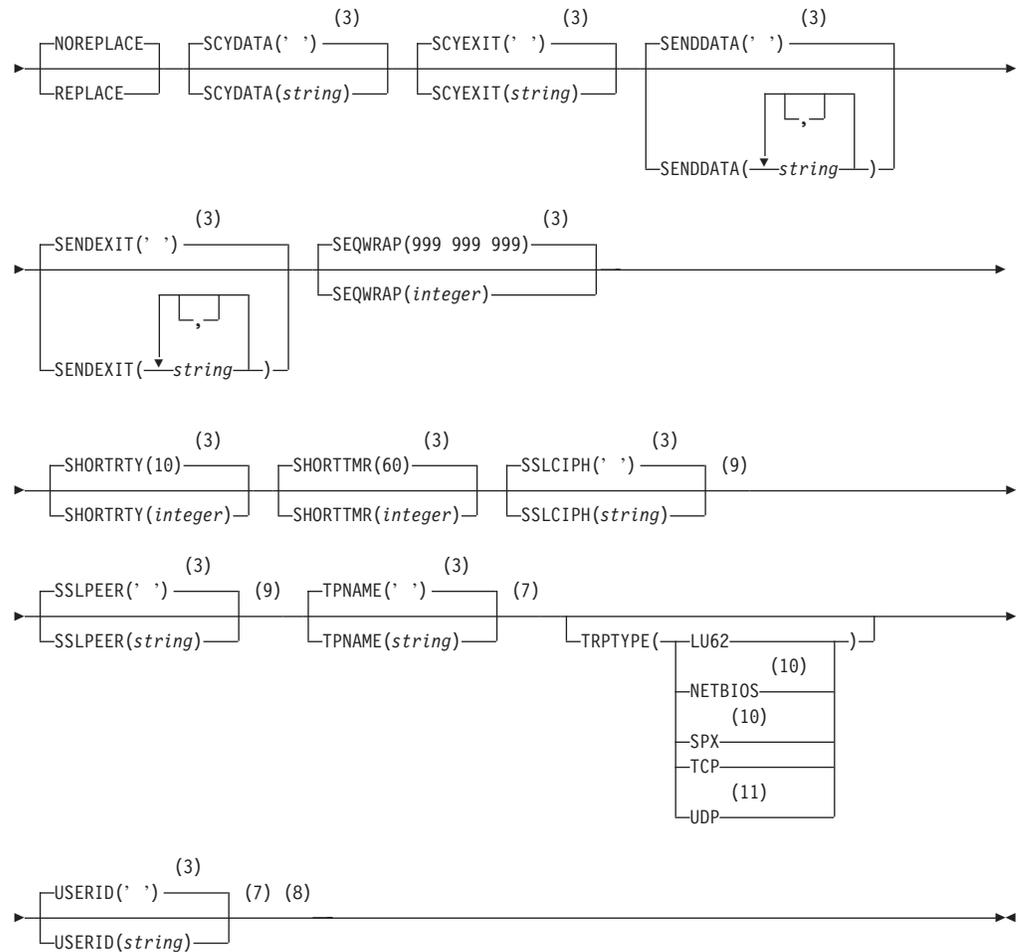
DEFINE CHANNEL

Cluster-sender channel

DEFINE CHANNEL



DEFINE CHANNEL



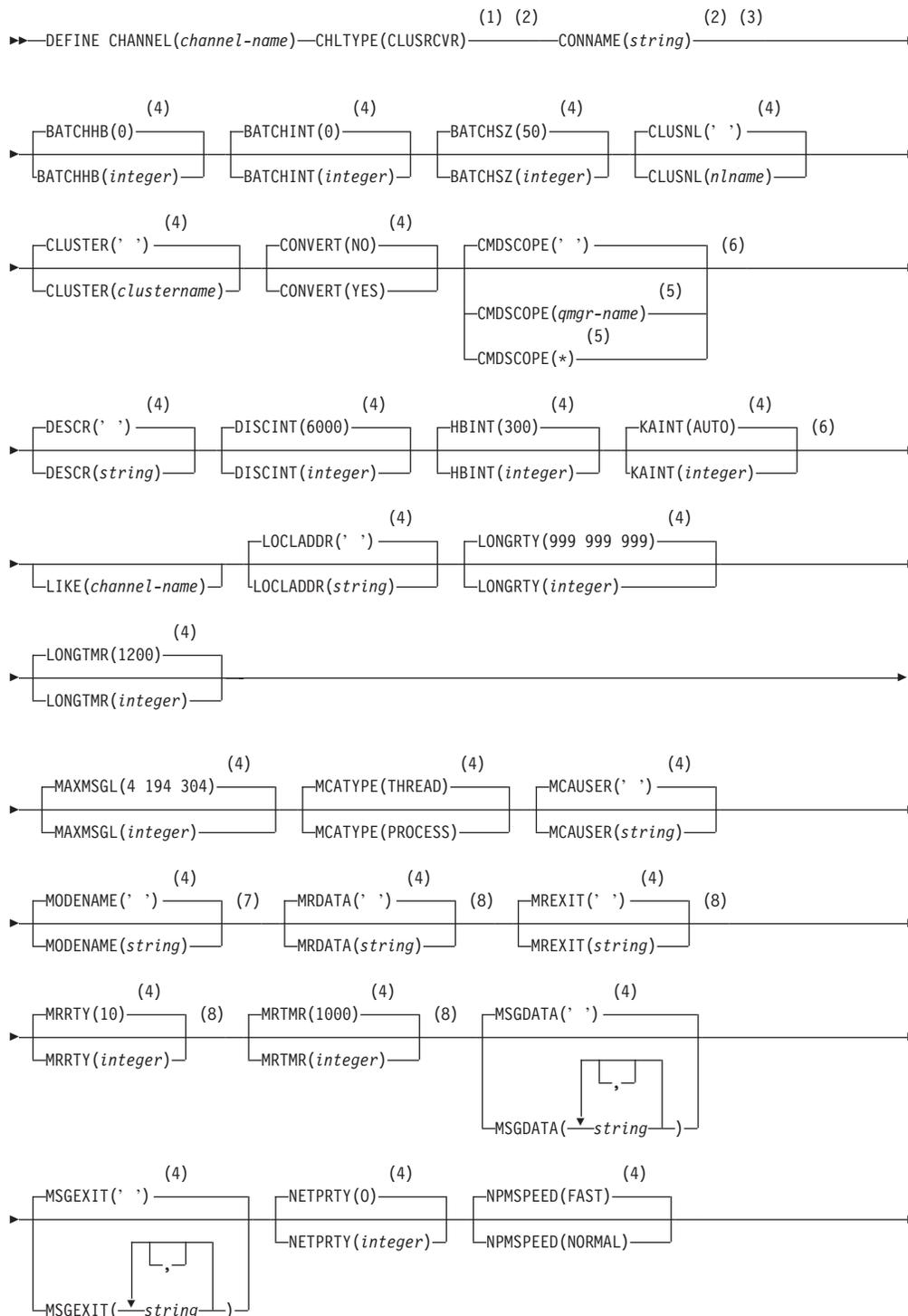
Notes:

- 1 Valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.
- 2 This parameter must follow immediately after the channel name except on z/OS.
- 3 This is the default supplied with WebSphere MQ, but your installation might have changed it.
- 4 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- 5 Valid only on z/OS.
- 6 Valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, and Windows.
- 7 Valid only if TRPTYPE is LU62.
- 8 Not valid on z/OS.
- 9 Valid only on AIX, HP-UX, Linux, OS/400, Solaris, Windows, and z/OS.
- 10 Valid only on OS/2 Warp and Windows.
- 11 Valid only on AIX.

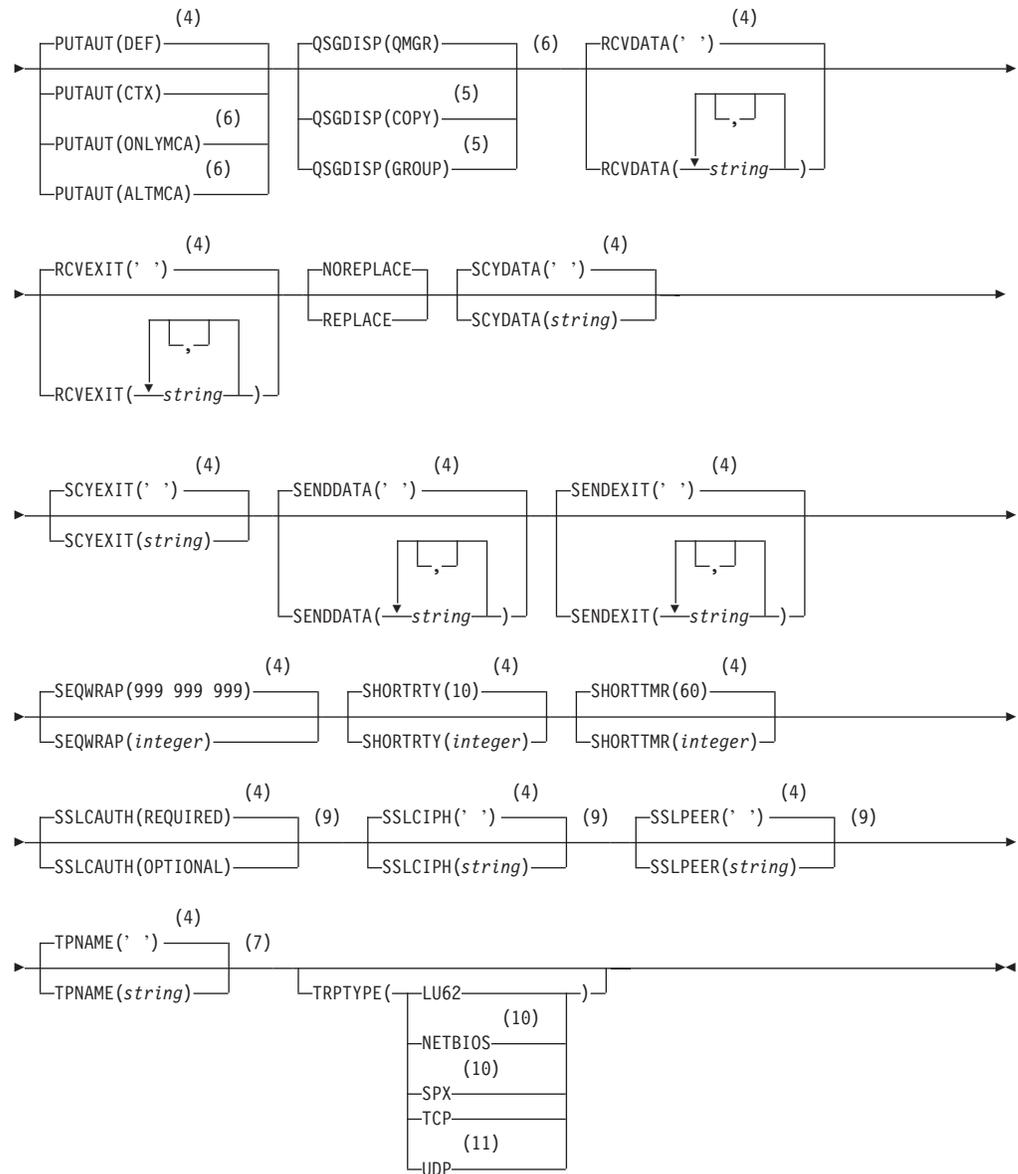
DEFINE CHANNEL

Cluster-receiver channel

DEFINE CHANNEL



DEFINE CHANNEL



Notes:

- Valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.
- This parameter must follow immediately after the channel name except on z/OS.
- This parameter is optional if TRPTYPE is TCP.
- This is the default supplied with WebSphere MQ, but your installation might have changed it.
- Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- Valid only on z/OS.
- Valid only if TRPTYPE is LU62.
- Not valid on z/OS.

DEFINE CHANNEL

- 9 Valid only on AIX, HP-UX, Linux, OS/400, Solaris, Windows, and z/OS.
- 10 Valid only on OS/2 Warp and Windows.
- 11 Valid only on AIX.

Parameter descriptions

The parameter descriptions also apply to the ALTER CHANNEL command, with the following exceptions:

- The **LIKE** parameter applies only to the DEFINE CHANNEL command.
- The **REPLACE** and **NOREPLACE** parameter applies only to the DEFINE CHANNEL command.
- The variations in the CMDSCOPE and QSGDISP parameters between the ALTER CHANNEL and DEFINE CHANNEL commands are described.

Parameters are optional unless the description states that they are required.

(channel-name)

The name of the new channel definition.

This parameter is required on all types of channel. On CLUSSDR channels it can take a different form to the other channel types. If your convention for naming cluster-sender channels includes the name of the queue manager, you can define a cluster-sender channel using the +QMNAME+ construction. After connection to the matching cluster-receiver channel, WebSphere MQ substitutes the correct repository queue manager name in place of +QMNAME+ in the cluster-sender channel definition. This facility applies to AIX, HP-UX, Linux, OS/400, Solaris, and Windows only. For a full explanation of this facility, see *WebSphere MQ Queue Manager Clusters*.

The name must not be the same as any existing channel defined on this queue manager (unless REPLACE or ALTER is specified). On z/OS, client-connection channel names can duplicate others.

The maximum length of the string is 20 characters, and the string must contain only valid characters; see “Rules for naming WebSphere MQ objects” on page 4.

AUTOSTART

Specifies whether an LU 6.2 responder process for the channel will be started at queue manager startup.

ENABLED

The responder is started.

DISABLED

The responder is not started (this is the default).

This parameter is valid only for channels with a channel type (CHLTYPE) of RCVR, RQSTR, SVR, and SVRCONN. It is supported only on Compaq NSK.

BATCHHB(*integer*)

Specifies whether batch heartbeats are to be used. The value is the length of the heartbeat in milliseconds.

Batch heartbeats allow a sending channel to verify that the receiving channel is still active just before committing a batch of messages, so that if the receiving channel is not active, the batch can be backed out rather than becoming in-doubt, as would otherwise be the case. By backing out the

DEFINE CHANNEL

batch, the messages remain available for processing so they could, for example, be redirected to another channel.

If the sending channel has had a communication from the receiving channel within the batch heartbeat interval, the receiving channel is assumed to be still active, otherwise a 'heartbeat' is sent to the receiving channel to check.

The value must be in the range zero through 999 999. A value of zero indicates that batch heartbeating is not used.

This parameter is valid only for channels with a channel type (CHLTYPE) of SDR, SVR, CLUSSDR and CLUSRCVR.

BATCHINT(*integer*)

The minimum amount of time, in milliseconds, that a channel keeps a batch open.

The batch is terminated by whichever of the following occurs first:

- BATCHSZ messages have been sent, or
- The transmission queue is empty and BATCHINT is exceeded

The default value is zero, which means that the batch is terminated as soon as the transmission queue becomes empty (or the BATCHSZ limit is reached).

The value must be in the range zero, through 999 999 999.

This parameter is valid only for channels with a channel type (CHLTYPE) of SDR, SVR, CLUSSDR, or CLUSRCVR. It is valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.

BATCHSZ(*integer*)

The maximum number of messages that can be sent through a channel before taking a checkpoint.

The maximum batch size actually used is the lowest of the following:

- The BATCHSZ of the sending channel
- The BATCHSZ of the receiving channel
- Three less than the maximum number of uncommitted messages allowed at the sending queue manager (or one if this value is zero or less)
- Three less than the maximum number of uncommitted messages allowed at the receiving queue manager (or one if this value is zero or less)

The maximum number of uncommitted messages is specified by the MAXUMSGS parameter of the ALTER QMGR command.

This parameter is valid only for channels with a channel type (CHLTYPE) of SDR, SVR, RCVR, RQSTR, CLUSSDR, or CLUSRCVR.

The value must be in the range 1 through 9999.

CHLTYPE

Channel type. This is required. It must follow immediately after the (*channel-name*) parameter on all platforms except z/OS.

SDR Sender channel
SVR Server channel

DEFINE CHANNEL

RCVR	Receiver channel
RQSTR	Requester channel
CLNTCONN	Client-connection channel
SVRCONN	Server-connection channel
CLUSDR	Cluster-sender channel (valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS)
CLUSRCVR	Cluster-receiver channel (valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS)

Notes:

1. Only SVRCONN is available on the reduced function form of WebSphere MQ for z/OS supplied with WebSphere Application Server.
2. If you are using the REPLACE option, you cannot change the channel type.

CLUSNL(*nlname*)

The name of the namelist that specifies a list of clusters to which the channel belongs.

This parameter is valid only for channels with a channel type (CHLTYPE) of CLUSSDR and CLUSRCVR channels. Only one of the resultant values of CLUSTER or CLUSNL can be nonblank, the other must be blank.

This parameter is valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.

CLUSTER(*clustername*)

The name of the cluster to which the channel belongs. The maximum length is 48 characters conforming to the rules for naming WebSphere MQ objects.

This parameter is valid only for channels with a channel type (CHLTYPE) of CLUSSDR and CLUSRCVR channels. Only one of the resultant values of CLUSTER or CLUSNL can be nonblank, the other must be blank.

This parameter is valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows and z/OS.

CMDSCOPE

This parameter applies to z/OS only and specifies how the command is executed when the queue manager is a member of a queue-sharing group.

CMDSCOPE must be blank, or the local queue manager, if QSGDISP is set to GROUP.

'' The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name other than the queue manager on which it was entered, only if you are using a shared queue environment and if the command server is enabled.

* The command is executed on the local queue manager and is also passed to every active queue manager in the queue-sharing group.

DEFINE CHANNEL

The effect of this is the same as entering the command on every queue manager in the queue-sharing group.

CONNNAME(*string*)

Connection name.

For cluster-receiver channels (when specified) CONNNAME relates to the local queue manager, and for other channels it relates to the target queue manager.

The maximum length of the string is 48 characters on z/OS, and 264 characters on other platforms.

This parameter is required for channels with a channel type (CHLTYPE) of SDR, RQSTR, CLNTCONN, and CLUSSDR. It is optional for SVR channels, and for CLUSRCVR channels of TRPTYPE(TCP), and is not valid for RCVR or SVRCONN channels.

Note: If you are using any of the special characters in your connection name (for example, parentheses) you must enclose the string in single quotes.

The value you specify depends on the transport type (TRPTYPE) to be used:

DECnet

The DECnet node name and the DECnet object name, in the form:
CONNNAME('node_name(object_name)')

This is valid only on Compaq OpenVMS.

LU 6.2

- On Compaq OpenVMS this is the SNA gateway node name, access name, and the tpname that is used by SNA to invoke the remote program. The format of this information is as follows:

CONNNAME('gateway_node.access_name(tpname)')

- On z/OS there are two forms in which to specify the value:

Logical unit name

The logical unit information for the queue manager, comprising the logical unit name, TP name, and optional mode name. This can be specified in one of 3 forms:

Form	Example
luname	IGY12355
luname/TPname	IGY12345/APING
luname/TPname/modename	IGY12345/APINGD/#INTER

For the first form, the TP name and mode name must be specified for the TPNAME and MODENAME parameters; otherwise these parameters must be blank.

Note: For client-connection channels, only the first form is allowed.

Symbolic name

The symbolic destination name for the logical unit

DEFINE CHANNEL

information for the queue manager, as defined in the side information data set. The TPNAME and MODENAME parameters must be blank.

Note: For cluster-receiver channels, the side information is on the other queue managers in the cluster. Alternatively, in this case it can be a name that a channel auto-definition exit can resolve into the appropriate logical unit information for the local queue manager.

The specified or implied LU name can be that of a VTAM[®] generic resources group.

- On OS/2 Warp it is the fully-qualified name of the partner LU, or an LU alias.
- On Compaq OpenVMS, OS/400, UNIX systems, and Windows, this is the name of the CPI-C communications side object or, if the TPNAME is not blank, this is the fully-qualified name of the partner logical unit.

See the information about configuration parameters for an LU 6.2 connection for your platform in the *WebSphere MQ Intercommunication* manual for more information.

- On Compaq NSK, the value of this depends on whether SNAX or ICE is used as the communications protocol:
 - If SNAX is used:
 - For sender, requester, and fully qualified server channels, this is the process name of the SNAX/APC process, the name of the local LU, and the name of the partner LU on the remote machine, for example:
`CONNNAME('$PPPP.LOCALLU.REMOTELU')`
 - For receiver and non fully qualified server channels, this is the process name of the SNAX/APC process and the name of the local LU, for example:
`CONNNAME('$PPPP.LOCALLU')`

The name of the local LU can be an asterisk (*), indicating any name.

- If ICE is used:
 - For sender, requester, and fully qualified server channels, this is the process name of the ICE process, the ICE open name, the name of the local LU, and the name of the partner LU on the remote machine, for example:
`CONNNAME('$PPPP.#OPEN.LOCALLU.REMOTELU')`

For receiver and non fully qualified server channels, this is the process name of the SNAX/APC process, the ICE open name, and the name of the local LU, for example:

```
CONNNAME('$PPPP.#OPEN.LOCALLU')
```

The name of the local LU can be an asterisk (*), indicating any name.

NetBIOS

A unique NetBIOS name (limited to 16 characters).

DEFINE CHANNEL

SPX The 4-byte network address, the 6-byte node address, and the 2-byte socket number. These values must be entered in hexadecimal, with a period separating the network and node addresses. The socket number must be enclosed in brackets, for example:

```
CONNNAME('0a0b0c0d.804abcde23a1(5e86)')
```

If the socket number is omitted, the WebSphere MQ default value (X'5e86') is assumed.

TCP Either the host name, or the network address of the remote machine (or the local machine for cluster-receiver channels). This can be followed by an optional port number, enclosed in parentheses.

On z/OS the connection name can include the IP_name of an z/OS dynamic DNS group or a network dispatcher input port. Do **not** include this for channels with a channel type (CHLTYPE) of CLUSSDR.

On Compaq NonStop Kernel the connection name can take an additional field at the start of the value, specifying the name of a specific Guardian TCP/IP server process to be used for the channel.

On AIX, HP-UX, Linux, OS/400, Solaris, and Windows, when you define a channel with a channel type (CHLTYPE) of CLUSRCVR that is using TCP/IP, you do not need to specify the network address of your queue manager. WebSphere MQ generates a CONNNAME for you, assuming the default port and using the current IP address of the system.

UDP Either the host name, or the network address of the remote MQSeries for Windows V2.0 machine. This can be followed by an optional port number, enclosed in parentheses.

CONVERT

Specifies whether the sending message channel agent should attempt conversion of the application message data, if the receiving message channel agent cannot perform this conversion.

NO No conversion by sender

YES Conversion by sender

On z/OS, **N** and **Y** are accepted as synonyms of **NO** and **YES**.

This parameter is valid only for channels with a channel type (CHLTYPE) of SDR, SVR, CLUSSDR, or CLUSRCVR.

DESCR(*string*)

Plain-text comment. It provides descriptive information about the channel when an operator issues the DISPLAY CHANNEL command.

It should contain only displayable characters. The maximum length is 64 characters. In a DBCS installation, it can contain DBCS characters (subject to a maximum length of 64 bytes).

Note: If characters are used that are not in the coded character set identifier (CCSID) for this queue manager, they might be translated incorrectly if the information is sent to another queue manager.

DEFINE CHANNEL

DISCINT(*integer*)

The minimum time in seconds for which the channel waits for a message to arrive on the transmission queue, after a batch ends, before terminating the channel. A value of zero causes the message channel agent to wait indefinitely.

The value must be in the range zero through 999 999.

This parameter is valid only for channels with a channel type (CHLTYPE) of SDR, SVR, CLUSSDR, or CLUSRCVR.

HBINT(*integer*)

This parameter has a different interpretation depending upon the channel type, as follows:

- For channels with a channel type (CHLTYPE) of SDR, SVR, RCVR, RQSTR, CLUSSDR, or CLUSRCVR, this is the time, in seconds, between heartbeat flows passed from the sending MCA when there are no messages on the transmission queue. The heartbeat exchange gives the receiving MCA the opportunity to quiesce the channel.

This type of heartbeat is valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.

Note: You should set this value to be significantly less than the value of DISCINT. WebSphere MQ checks only that it is within the permitted range however.

- For channels with a channel type (CHLTYPE) of SVRCONN or CLNTCONN, this is the time, in seconds, between heartbeat flows passed from the server MCA when that MCA has issued an MQGET with WAIT on behalf of a client application. This allows the server to handle situations where the client connection fails during an MQGET with WAIT. This type of heartbeat is valid only for AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, and Windows.

The value must be in the range zero through 999 999. A value of zero means that no heartbeat exchange takes place. The value that is used is the larger of the values specified at the sending side and the receiving side.

KAINT(*integer*)

This parameter is valid on z/OS only. It specifies the value passed to the communications stack for KeepAlive timing for this channel. The value is applicable for the TCP/IP and SPX communications protocols, though not all implementations support this parameter.

If the TCPKEEP channel initiator parameter (set by CSQ6CHIP) is NO, the value is ignored and the KeepAlive facility is not used.

(*integer*)

The KeepAlive interval to be used, in seconds, in the range 1 through 99 999.

- 0 The value used is that specified by the KEEPALIVEOPTIONS statement in the TCP profile configuration data set.

AUTO

The KeepAlive interval is calculated based upon the negotiated heartbeat value as follows:

- If the negotiated HBINT is greater than zero, KeepAlive interval is set to that value plus 60 seconds.

DEFINE CHANNEL

- If the negotiated HBINT is zero, the value used is that specified by the KEEPALIVEOPTIONS statement in the TCP profile configuration data set.

The default value is AUTO.

This parameter is valid for all channel types. It is ignored for channels with a TRPTYPE other than TCP or SPX.

This parameter is valid only on z/OS.

LIKE(*channel-name*)

The name of a channel, whose parameters are used to model this definition.

This parameter applies only to the DEFINE CHANNEL command.

If this field is not filled in, and you do not complete the parameter fields related to the command, the values are taken from one of the following, depending upon the channel type:

SYSTEM.DEF.SENDER	Sender channel
SYSTEM.DEF.SERVER	Server channel
SYSTEM.DEF.RECEIVER	Receiver channel
SYSTEM.DEF.REQUESTER	Requester channel
SYSTEM.DEF.SVRCONN	Server-connection channel
SYSTEM.DEF.CLNTCONN	Client-connection channel
SYSTEM.DEF.CLUSSDR	Cluster-sender channel
SYSTEM.DEF.CLUSRCVR	Cluster-receiver channel

This is equivalent to defining the following object:

LIKE(SYSTEM.DEF.SENDER)

for a sender channel, and similarly for other channel types.

These default channel definitions can be altered by the installation to the default values required.

On WebSphere MQ for z/OS, the queue manager searches page set zero for an object with the name you specify. The disposition of the LIKE object is not copied to the object you are defining.

Notes:

1. QSGDISP (GROUP) objects are not searched.
2. LIKE is ignored if QSGDISP(COPY) is specified. However, the group object defined is used as a LIKE object.

LOCLADDR(*string*)

Local communications address for the channel. Use this parameter if you want a channel to use a particular IP address, port, or port range for outbound communications. This might be useful in recovery scenarios where a channel is restarted on a different TCP/IP stack.

This parameter is valid only for channels with a transport type (TRPTYPE) of TCP. If TRPTYPE is not TCP, the data is ignored and no error message is issued. The value is the optional IP address and optional port or port range used for outbound TCP/IP communications. The format for this information is as follows:

DEFINE CHANNEL

```
LOCLADDR([ip-addr] [(low-port[,high-port])])
```

where ip-addr is specified in dotted decimal or alphanumeric form, and low-port and high-port are port numbers enclosed in parentheses. All are optional.

Table 2 shows how the LOCLADDR parameter can be used:

Table 2. Examples of how the LOCLADDR parameter can be used

LOCLADDR	Meaning
9.20.4.98	Channel binds to this address locally
9.20.4.98(1000)	Channel binds to this address and port 1000 locally
9.20.4.98(1000,2000)	Channel binds to this address and uses a port in the range 1000 to 2000 locally
(1000)	Channel binds to port 1000 locally
(1000,2000)	Channel binds to port in range 1000 to 2000 locally

This parameter is valid only for channels with a channel type (CHLTYPE) of SDR, SVR, RQSTR, CLNTCONN, CLUSSDR, or CLUSRCVR.

Note: Even though this parameter is similar in form to CONNAME, it should not be confused with it. The LOCLADDR parameter specifies the characteristics of the local communications, whereas the CONNAME parameter specifies how to reach a remote queue manager.

LONGRTY(integer)

When a sender, server, or cluster-sender channel is attempting to connect to the remote queue manager, and the count specified by SHORTRTY has been exhausted, this specifies the maximum number of further attempts that are made to connect to the remote queue manager, at intervals specified by LONGTMR.

If this count is also exhausted without success, an error is logged to the operator, and the channel is stopped. The channel must subsequently be restarted with a command (it is not started automatically by the channel initiator).

The value must be in the range zero through 999 999 999.

This parameter is valid only for channels with a channel type (CHLTYPE) of SDR, SVR, CLUSSDR, or CLUSRCVR.

LONGTMR(integer)

For long retry attempts, this is the maximum number of seconds to wait before reattempting connection to the remote queue manager.

The time is approximate; zero means that another connection attempt is made as soon as possible.

The interval between retries might be extended if the channel has to wait to become active.

The value must be in the range zero through 999 999 999.

DEFINE CHANNEL

Note: For implementation reasons, the maximum retry interval that can be used is 999 999; values exceeding this are treated as 999 999.

This parameter is valid only for channels with a channel type (CHLTYPE) of SDR, SVR, CLUSSDR, or CLUSRCVR.

MAXMSGL(*integer*)

Specifies the maximum message length that can be transmitted on the channel. This is compared with the value for the partner and the actual maximum used is the lower of the two values.

The value zero means the maximum message length for the queue manager.

On AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, and Windows, specify a value in the range zero through to the maximum message length for the queue manager.

See the MAXMSGL parameter of the ALTER QMGR command for more information.

On z/OS, specify a value in the range zero through 100 MB.

On other platforms, specify a value in the range zero through 4 194 304 bytes (4 MB).

MCANAME(*string*)

Message channel agent name.

This is reserved, and if specified must only be set to blanks (maximum length 20 characters).

MCTYPE

Specifies whether the message-channel-agent program should run as a thread or a process.

PROCESS

The message channel agent runs as a separate process

THREAD

The message channel agent runs as a separate thread

In situations where a threaded listener is required to service a large number of incoming requests, resources can become strained. In this case, you should use multiple listener processes and target incoming requests at specific listeners though the port number specified on the listener.

This parameter is valid only for channels with a channel type (CHLTYPE) of SDR, SVR, RQSTR, CLUSSDR, or CLUSRCVR. It is supported only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, and Windows.

On z/OS it is supported only for channels with a channel type of CLUSRCVR. When specified in a CLUSRCVR definition, MCTYPE is used by a remote machine to determine the corresponding CLUSSDR definition.

MCAUSER(*string*)

Message channel agent user identifier.

If it is nonblank, it is the user identifier that is to be used by the message channel agent for authorization to access WebSphere MQ resources,

DEFINE CHANNEL

including (if PUTAUT is DEF) authorization to put the message to the destination queue for receiver or requester channels.

If it is blank, the message channel agent uses its default user identifier.

The default user identifier is derived from the user ID that started the receiving channel. The possible values are:

- On z/OS, the user ID assigned to the channel-initiator started task by the z/OS started-procedures table.
- For TCP/IP, other than z/OS, the user ID from the inetd.conf entry, or the user that started the listener.
- For SNA, other than z/OS, the user ID from the SNA server entry or, in the absence of this the incoming attach request, or the user that started the listener.
- For NetBIOS or SPX, the user ID that started the listener.

The maximum length of the string is 64 characters on Windows and 12 characters on other platforms. On Windows, you can optionally qualify a user identifier with the domain name in the format `user@domain`.

This parameter is not valid for channels with a channel type (CHLTYPE) of CLNTCONN.

MODENAME(*string*)

LU 6.2 mode name (maximum length 8 characters).

This parameter is valid only for channels with a transport type (TRPTYPE) of LU 6.2. If TRPTYPE is not LU 6.2, the data is ignored and no error message is issued.

If specified, this should be set to the SNA mode name unless the CONNAME contains a side-object name, in which case it should be set to blanks. The actual name is then taken from the CPI-C Communications Side Object, or APPC side information data set.

See the information about configuration parameters for an LU 6.2 connection for your platform in the *WebSphere MQ Intercommunication* manual for more information.

This parameter is not valid for channels with a channel type (CHLTYPE) of RCVR or SVRCONN.

MRDATA(*string*)

Channel message-retry exit user data. The maximum length is 32 characters.

This is passed to the channel message-retry exit when it is called.

This parameter is valid only for channels with a channel type (CHLTYPE) of RCVR, RQSTR, or CLUSRCVR. It is not supported on z/OS.

MREXIT(*string*)

Channel message-retry exit name.

The format and maximum length of the name is the same as for MSGEXIT.

This parameter is valid only for channels with a channel type (CHLTYPE) of RCVR, RQSTR, or CLUSRCVR. It is not supported on z/OS.

MRRTY(*integer*)

The number of times the channel retries before it decides it cannot deliver the message.

DEFINE CHANNEL

This parameter controls the action of the MCA only if the message-retry exit name is blank. If the exit name is not blank, the value of MRRTY is passed to the exit for the exit's use, but the number of retries performed (if any) is controlled by the exit, and not by this parameter.

The value must be in the range zero through 999 999 999. A value of zero means that no retries are performed.

This parameter is valid only for channels with a channel type (CHLTYPE) of RCVR, RQSTR, or CLUSRCVR. It is not supported on z/OS.

MRTMR(*integer*)

The minimum interval of time that must pass before the channel can retry the MQPUT operation. This time interval is in milliseconds.

This parameter controls the action of the MCA only if the message-retry exit name is blank. If the exit name is not blank, the value of MRTMR is passed to the exit for the exit's use, but the retry interval is controlled by the exit, and not by this parameter.

The value must be in the range zero through 999 999 999. A value of zero means that the retry is performed as soon as possible (provided that the value of MRRTY is greater than zero).

This parameter is valid only for channels with a channel type (CHLTYPE) of RCVR, RQSTR, or CLUSRCVR. It is not supported on z/OS.

MSGDATA(*string*)

User data for the channel message exit. The maximum length is 32 characters.

This data is passed to the channel message exit when it is called.

On AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, Solaris, and Windows, you can specify data for more than one exit program by specifying multiple strings separated by commas. The total length of the field must not exceed 999 characters.

On OS/400, you can specify up to 10 strings, each of length 32 characters. The first string of data is passed to the first message exit specified, the second string to the second exit, and so on.

On z/OS, you can specify up to 8 strings, each of length 32 characters. The first string of data is passed to the first message exit specified, the second string to the second exit, and so on.

On other platforms you can specify only one string of message exit data for each channel.

MSGEXIT(*string*)

Channel message exit name.

On Compaq NSK, there is only one channel user exit program. If the MSGEXIT, MREXIT, SCYEXIT, SENDEXIT, and RCVEXIT parameters are all left blank, the channel user exit is not invoked. If any of these parameters is nonblank, the channel exit program is called. You can enter text string for these parameters. The maximum length of the string is 128 characters. This string is passed to the exit program, but it is not used to determine the program name.

On other platforms, if this name is nonblank, the exit is called at the following times:

DEFINE CHANNEL

- Immediately after a message has been retrieved from the transmission queue (sender or server), or immediately before a message is put to a destination queue (receiver or requester).

The exit is given the entire application message and transmission queue header for modification.

- At initialization and termination of the channel.

On AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, Solaris, and Windows, you can specify the name of more than one exit program by specifying multiple strings separated by commas. However, the total number of characters specified must not exceed 999.

On OS/400, you can specify the names of up to 10 exit programs by specifying multiple strings separated by commas.

On z/OS, you can specify the names of up to 8 exit programs by specifying multiple strings separated by commas.

On other platforms you can specify only one message exit name for each channel.

For channels with a channel type (CHLTYPE) of CLNTCONN or SVRCONN, this parameter is not relevant, because message exits are not invoked for such channels.

The format and maximum length of the name depends on the environment:

- On Compaq OpenVMS and UNIX systems, it is of the form:

libraryname(functionname)

The maximum length of the string is 128 characters.

- On OS/2 Warp and Windows, it is of the form:

dllname(functionname)

where *dllname* is specified without the suffix (".DLL"). The maximum length of the string is 128 characters.

- On OS/400, it is of the form:

programe libname

where *program name* occupies the first 10 characters and *libname* the second 10 characters (both padded to the right with blanks if necessary). The maximum length of the string is 20 characters.

- On z/OS, it is a load module name, maximum length 8 characters (128 characters are allowed for exit names for client-connection channels, subject to a maximum total length including commas of 999).

NETPRTY(*integer*)

The priority for the network connection. Distributed queuing chooses the path with the highest priority if there are multiple paths available. The value must be in the range zero through 9; zero is the lowest priority.

This parameter is valid only for CLUSRCVR channels.

This parameter is valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.

NPMSPEED

The class of service for nonpersistent messages on this channel:

FAST Fast delivery for nonpersistent messages; messages might be lost if the channel is lost. This is the default. Messages are retrieved using MQGMO_SYNCPOINT_IF_PERSISTENT and so are not included in the batch unit of work.

NORMAL

Normal delivery for nonpersistent messages.

If the sending side and the receiving side do not agree about this parameter, or one does not support it, NORMAL is used.

This parameter is valid only for channels with a CHLTYPE of SDR, SVR, RCVR, RQSTR, CLUSSDR, or CLUSRCVR. It is valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.

PASSWORD(string)

Password used by the message channel agent when attempting to initiate a secure LU 6.2 session with a remote message channel agent. The maximum length is 12 characters.

This parameter is valid only for channels with a channel type (CHLTYPE) of SDR, SVR, RQSTR, CLNTCONN, or CLUSSDR. On z/OS, it is supported only for channels with a channel type (CHLTYPE) of CLNTCONN.

Although the maximum length of the parameter is 12 characters, only the first 10 characters are used.

PUTAUT

Specifies which user identifiers should be used to establish authority to put messages to the destination queue (for messages channels) or to execute an MQI call (for MQI channels).

DEF The default user ID is used. On z/OS this might involve using both the user ID received from the network and that derived from MCAUSER.

CTX The user ID from the *UserIdentifier* field of the message descriptor is used. On z/OS this might involve also using the user ID received from the network or that derived from MCAUSER, or both.

ONLYMCA The default user ID is used. Any user ID received from the network is not used. This value is supported only on z/OS.

ALTMCA The user ID from the *UserIdentifier* field of the message descriptor is used. Any user ID received from the network is not used. This value is supported only on z/OS.

This parameter is valid only for channels with a channel type (CHLTYPE) of RCVR, RQSTR, CLUSRCVR, or SVRCONN. CTX and ALTMCA are not valid for SVRCONN channels.

QMNAME(string)

Queue manager name.

For channels with a channel type (CHLTYPE) of CLNTCONN, this is the name of the queue manager to which an application running in the MQI client environment can request connection.

DEFINE CHANNEL

For channels of other types this parameter is not valid.

QSGDISP

This parameter applies to z/OS only.

Specifies the disposition of the object to which you are applying the command (that is, where it is defined and how it behaves).

QSGDISP	ALTER	DEFINE
COPY	The object definition resides on the page set of the queue manager that executes the command. The object was defined using a command that had the parameters QSGDISP(COPY). Any object residing in the shared repository, or any object defined using a command that had the parameters QSGDISP(QMGR), is not affected by this command.	The object is defined on the page set of the queue manager that executes the command using the QSGDISP(GROUP) object of the same name as the 'LIKE' object.
GROUP	The object definition resides in the shared repository. The object was defined using a command that had the parameters QSGDISP(GROUP). Any object residing on the page set of the queue manager that executes the command (except a local copy of the object) is not affected by this command. If the command is successful, the following command is generated and sent to all active queue managers in the queue-sharing group to refresh local copies on page set zero: DEFINE CHANNEL(channel-name) CHLTYPE(type) REPLACE QSGDISP(COPY)	The object definition resides in the shared repository. This is allowed only if the queue manager is in a queue-sharing group. If the definition is successful, the following command is generated and sent to all active queue managers in the queue-sharing group to make or refresh local copies on page set zero: DEFINE CHANNEL(channe-name) CHLTYPE(type) REPLACE QSGDISP(COPY)
PRIVATE	The object resides on the page set of the queue manager that executes the command, and was defined with QSGDISP(QMGR) or QSGDISP(COPY). Any object residing in the shared repository is unaffected.	Not permitted.
QMGR	The object definition resides on the page set of the queue manager that executes the command. The object was defined using a command that had the parameters QSGDISP(QMGR). Any object residing in the shared repository, or any local copy of such an object, is not affected by this command. This is the default value.	The object is defined on the page set of the queue manager that executes the command. This is the default value.

RCVDATA(*string*)

Channel receive exit user data (maximum length 32 characters).

This is passed to the channel receive exit when it is called.

On AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, Solaris, and Windows, you can specify data for more than one exit program by specifying multiple strings separated by commas. The total length of the field must not exceed 999 characters.

On OS/400, you can specify up to 10 strings, each of length 32 characters. The first string of data is passed to the first receive exit specified, the second string to the second exit, and so on.

DEFINE CHANNEL

On z/OS, you can specify up to 8 strings, each of length 32 characters. The first string of data is passed to the first receive exit specified, the second string to the second exit, and so on.

On other platforms you can specify only one string of receive exit data for each channel.

RCVEXIT(*string*)

Channel receive exit name.

On platforms other than Compaq NSK, if this name is nonblank, the exit is called at the following times:

- Immediately before the received network data is processed.
The exit is given the complete transmission buffer as received. The contents of the buffer can be modified as required.
- At initialization and termination of the channel.

On AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, Solaris, and Windows, you can specify the name of more than one exit program by specifying multiple strings separated by commas. However, the total number of characters specified must not exceed 999.

On OS/400, you can specify the names of up to 10 exit programs by specifying multiple strings separated by commas.

On z/OS, you can specify the names of up to 8 exit programs by specifying multiple strings separated by commas.

On other platforms you can specify only one receive exit name for each channel.

The format and maximum length of the name is the same as for MSGEXIT.

REPLACE and NOREPLACE

Whether the existing definition (and on z/OS, with the same disposition) is to be replaced with this one. This is optional. The default is NOREPLACE. Any object with a different disposition is not changed.

This parameter applies only to the DEFINE CHANNEL command.

REPLACE

The definition should replace any existing definition of the same name. If a definition does not exist, one is created. Note that REPLACE does *not* alter the channel status.

NOREPLACE

The definition should not replace any existing definition of the same name.

SCYDATA(*string*)

Channel security exit user data (maximum length 32 characters).

This is passed to the channel security exit when it is called.

SCYEXIT(*string*)

Channel security exit name.

On platforms other than Compaq NSK, if this name is nonblank, the exit is called at the following times:

- Immediately after establishing a channel.

DEFINE CHANNEL

Before any messages are transferred, the exit is given the opportunity to instigate security flows to validate connection authorization.

- Upon receipt of a response to a security message flow.
Any security message flows received from the remote processor on the remote queue manager are given to the exit.
- At initialization and termination of the channel.

The format and maximum length of the name is the same as for MSGEXIT.

SENDDATA(*string*)

Channel send exit user data. The maximum length is 32 characters.

This is passed to the channel send exit when it is called.

On AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, Solaris, and Windows, you can specify data for more than one exit program by specifying multiple strings separated by commas. The total length of the field must not exceed 999 characters.

On OS/400, you can specify up to 10 strings, each of length 32 characters. The first string of data is passed to the first send exit specified, the second string to the second exit, and so on.

On z/OS, you can specify up to 8 strings, each of length 32 characters. The first string of data is passed to the first send exit specified, the second string to the second exit, and so on.

On other platforms you can specify only one string of send exit data for each channel.

SENDEXIT(*string*)

Channel send exit name.

On platforms other than Compaq NSK, if this name is nonblank, the exit is called at the following times:

- Immediately before data is sent out on the network.
The exit is given the complete transmission buffer before it is transmitted. The contents of the buffer can be modified as required.
- At initialization and termination of the channel.

On AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, Solaris, and Windows, you can specify the name of more than one exit program by specifying multiple strings separated by commas. However, the total number of characters specified must not exceed 999.

On OS/400, you can specify the names of up to 10 exit programs by specifying multiple strings separated by commas.

On z/OS, you can specify the names of up to 8 exit programs by specifying multiple strings separated by commas.

On other platforms you can specify only one send exit name for each channel.

The format and maximum length of the name is the same as for MSGEXIT.

SEQWRAP(*integer*)

When this value is reached, sequence numbers wrap to start again at 1.

DEFINE CHANNEL

This value is nonnegotiable and must match in both the local and remote channel definitions.

The value must be in the range 100 through 999 999 999.

This parameter is valid only for channels with a channel type (CHLTYPE) of SDR, SVR, RCVR, RQSTR, CLUSSDR, or CLUSRCVR.

SHORTRTY(*integer*)

The maximum number of attempts that are made by a sender, server, or cluster-sender channel to connect to the remote queue manager, at intervals specified by SHORTTMR, before the (normally longer) LONGRTY and LONGTMR are used.

Retry attempts are made if the channel fails to connect initially (whether it is started automatically by the channel initiator or by an explicit command), and also if the connection fails after the channel has successfully connected. However, if the cause of the failure is such that retry is unlikely to be successful, retries are not attempted.

The value must be in the range zero through 999 999 999.

This parameter is valid only for channels with a channel type (CHLTYPE) of SDR, SVR, CLUSSDR, or CLUSRCVR.

SHORTTMR(*integer*)

For short retry attempts, this is the maximum number of seconds to wait before reattempting connection to the remote queue manager.

The time is approximate; zero means that another connection attempt is made as soon as possible.

The interval between retries might be extended if the channel has to wait to become active.

The value must be in the range zero through 999 999 999.

Note: For implementation reasons, the maximum retry interval that can be used is 999 999; values exceeding this are treated as 999 999.

This parameter is valid only for channels with a channel type (CHLTYPE) of SDR, SVR, CLUSSDR, or CLUSRCVR.

SSLCAUTH

Defines whether WebSphere MQ requires a certificate from the SSL client or not. The initiating end of the channel acts as the SSL client, so this applies to the end of the channel that receives the initiation flow, which acts as the SSL server.

This parameter is supported only on AIX, HP-UX, Linux, OS/400, Solaris, Windows, and z/OS.

This parameter is valid only for channels with a channel type (CHLTYPE) of RCVR, SVRCONN, CLUSRCVR, SVR, or RQSTR.

The parameter is used only for channels with SSLCIPH specified. If SSLCIPH is blank, the data is ignored and no error message is issued.

REQUIRED

WebSphere MQ requires and validates a certificate from the SSL client. This is the default.

DEFINE CHANNEL

OPTIONAL

The peer SSL client system might still send a certificate. If it does, the contents of this certificate are validated as normal.

SSLCIPH(*string*)

CipherSpec used on the channel. The maximum length is 32 characters. This parameter is valid on all channel types.

This parameter is supported only on AIX, HP-UX, Linux, OS/400, Solaris, Windows, and z/OS.

This parameter is valid only for channels with a transport type (TRPTYPE) of TCP. If the TRPTYPE is not TCP, the data is ignored and no error message is issued.

The SSLCIPH values must specify the same CipherSpec on both ends of the channel.

Specify the name of the CipherSpec you are using. The CipherSpecs that can be used with WebSphere MQ SSL support are shown in Table 3.

Table 3. CipherSpecs that can be used with WebSphere MQ SSL support

CipherSpec name	Hash algorithm	Encryption algorithm	Encryption bits
NULL_MD5 ¹	MD5	None	0
NULL_SHA ¹	SHA	None	0
RC4_MD5_EXPORT ¹	MD5	RC4	40
RC4_MD5_US ²	MD5	RC4	128
RC4_SHA_US ²	SHA	RC4	128
RC2_MD5_EXPORT ¹	MD5	RC2	40
DES_SHA_EXPORT ¹	SHA	DES	56
RC4_56_SHA_EXPORT1024 ^{3,4,5}	SHA	RC4	56
DES_SHA_EXPORT1024 ^{3,4,5,6}	SHA	DES	56
TRIPLE_DES_SHA_US ⁴	SHA	3DES	168
TLS_RSA_WITH_AES_128_CBC_SHA ⁷	SHA	AES	128
TLS_RSA_WITH_AES_256_CBC_SHA ⁷	SHA	AES	256
AES_SHA_US ⁸	SHA	AES	128

Notes:

1. On OS/400, available when either AC2 or AC3 are installed
2. On OS/400, available only when AC3 is installed
3. Not available for z/OS
4. Not available for OS/400
5. Specifies a 1024-bit handshake key size
6. Not available for Windows
7. Available for AIX platforms only
8. Available for OS/400, AC3 only

When you request a personal certificate, you specify a key size for the public and private key pair. The key size that is used during the SSL handshake can depend on the size stored in the certificate and on the CipherSpec:

DEFINE CHANNEL

- On UNIX systems and z/OS, when a CipherSpec name includes `_EXPORT`, the maximum handshake key size is 512 bits. If either of the certificates exchanged during the SSL handshake has a key size greater than 512 bits, a temporary 512-bit key is generated for use during the handshake.
- On UNIX systems, when a CipherSpec name includes `_EXPORT1024`, the handshake key size is 1024 bits. Refer to note 5 in Table 3.
- Otherwise the handshake key size is the size stored in the certificate.

If the `SSLCIPH` parameter is blank, no attempt is made to use SSL on the channel.

SSLPEER(string)

Specifies the filter to use to compare with the Distinguished Name of the certificate from the peer queue manager or client at the other end of the channel. (A Distinguished Name is the identifier of the SSL certificate.) If the Distinguished Name in the certificate received from the peer does not match the `SSLPEER` filter, the channel does not start.

This parameter is supported only on AIX, HP-UX, Linux, OS/400, Solaris, Windows, and z/OS.

This parameter is optional; if it is not specified, the Distinguished Name of the peer is not checked at channel start up. (The Distinguished Name from the certificate is still written into the `SSLPEER` definition held in memory, and passed to the security exit). If `SSLCIPH` is blank, the data is ignored and no error message is issued.

This parameter is valid for all channel types.

The `SSLPEER` value is specified in the standard form used to specify a Distinguished Name. For example:

```
SSLPEER('CN="xxx yyy zzz",O=xxx,C=xxx')
```

You can use a semi-colon as a separator instead of a comma.

The possible attribute types supported are:

CN	common name
T	title
OU	organizational unit name
O	organization name
L	locality name
S, ST, or SP	state or province name
C	country

WebSphere MQ will only accept upper case letters for the attribute types.

If any of the unsupported attribute types are specified in the `SSLPEER` string, an error is output either when the attribute is defined or at run time (depending on which platform you are running on), and the string is deemed not to have matched the flowed certificate's Distinguished Name.

DEFINE CHANNEL

If the flowed certificate's Distinguished Name contains multiple OU (organisational unit) attributes, and SSLPEER specifies these attributes to be compared, they must match in the order they are found in the certificate's Distinguished Name, and must start with the first OU, or an asterisk. For example, if the flowed certificate's Distinguished Name contains the OUs OU=One,OU=Two,OU=Three, specifying the following SSLPEER values will work:

```
('OU=One,OU=Two')
('OU=*,OU=Two,OU=Three')
('OU=*,OU=Two')
```

but specifying the following SSLPEER values will fail:

```
('OU=Two,OU=Three')
('OU=One,OU=Three')
('OU=Two')
```

Any or all of the attribute values can be generic, either an asterisk (*) on its own, or a stem with initiating or trailing asterisks. This allows the SSLPEER to match any Distinguished Name value, or any value starting with the stem for that attribute.

If an asterisk is specified at the beginning or end of any attribute value in the Distinguished Name on the certificate, you can specify '^*' to check for an exact match in SSLPEER. For example, if you have an attribute of CN='Test*' in the Distinguished Name of the certificate, you can use the following command:

```
SSLPEER('CN=Test\*')
```

The maximum length of the parameter is 1024 bytes on Windows, OS/400, and UNIX platforms, and 256 bytes on z/OS.

TPNAME(string)

LU 6.2 transaction program name (maximum length 64 characters).

This parameter is valid only for channels with a transport type (TRPTYPE) of LU 6.2.

On Compaq NSK, this should be set to the local TP name. This can be followed by the name of the TP on the remote machine, for example:

```
TPNAME('localtp[.remotetp]')
```

Both names can be up to 16 characters in length.

The name can also be nonblank for client connection channels to be used with OS/2 Warp.

On other platforms, this should be set to the SNA transaction program name, unless the CONNAME contains a side-object name in which case it should be set to blanks. The actual name is taken instead from the CPI-C Communications Side Object, or the APPC side information data set.

See the information about configuration parameters for an LU 6.2 connection for your platform in the *WebSphere MQ Intercommunication* manual for more information.

On Windows SNA Server, and in the side object on z/OS, the TPNAME is wrapped to upper case.

DEFINE CHANNEL

This parameter is not valid for channels with a channel type (CHLTYPE) of RCVR.

TRPTYPE

Transport type to be used.

On AIX, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS, this parameter is optional because, if you do not enter a value, the value specified in the `SYSTEM.DEF.channel-type` definition is used. However, no check is made that the correct transport type has been specified if the channel is initiated from the other end. On z/OS, if the `SYSTEM.DEF.channel-type` definition does not exist, the default is LU62.

This is required on all other platforms.

DECNET

DECnet (supported only on Compaq OpenVMS)

LU62 SNA LU 6.2

NETBIOS

NetBIOS (supported only on OS/2 Warp, Windows, and DOS; it also applies to z/OS for defining client-connection channels that connect to servers on the platforms supporting NetBIOS)

SPX Sequenced packet exchange (supported only on OS/2 Warp, Windows, and DOS; it also applies to z/OS for defining client-connection channels that connect to servers on the platforms supporting SPX)

TCP Transmission Control Protocol - part of the TCP/IP protocol suite

UDP User Datagram Protocol - part of the TCP/IP protocol suite (supported only on AIX); this option is available only for connection to MQSeries for Windows, V2.0, with CSD02

USERID(*string*)

Task user identifier. The maximum length is 12 characters.

This is used by the message channel agent when attempting to initiate a secure LU 6.2 session with a remote message channel agent.

This parameter is valid only for channels with a channel type (CHLTYPE) of SDR, SVR, RQSTR, CLNTCONN, or CLUSSDR. On z/OS, it is supported only for CLNTCONN channels.

Although the maximum length of the parameter is 12 characters, only the first 10 characters are used.

On the receiving end, if passwords are kept in encrypted format and the LU 6.2 software is using a different encryption method, an attempt to start the channel fails with invalid security details. You can avoid this by modifying the receiving SNA configuration to either:

- Turn off password substitution, or
- Define a security user ID and password.

XMITQ(*string*)

Transmission queue name.

The name of the queue from which messages are retrieved. See “Rules for naming WebSphere MQ objects” on page 4.

This parameter is valid only for channels with a channel type (CHLTYPE) of SDR or SVR. For these channel types this parameter is required.

DEFINE MAXSMSGS

DEFINE MAXSMSGS

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
						2CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

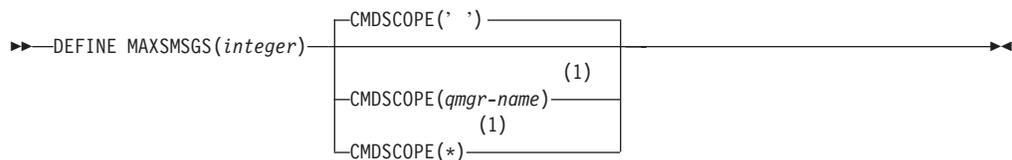
Use DEFINE MAXSMSGS to define the maximum number of messages that a task can get or put within a single unit of recovery.

Notes:

1. This command is valid only on z/OS and is retained for compatibility with earlier releases, although it can no longer be issued from the CSQINP1 initialization input data set. You should use the MAXUMSGS parameter of the ALTER QMGR command instead.
2. You can issue the DEFINE MAXSMSGS command to change the number of messages allowed. Once a value is set, it is preserved during a queue manager restart.

Synonym: DEF MAXSM

DEFINE MAXSMSGS



Notes:

- 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.

Parameter descriptions

(integer)

The maximum number of messages that a task can get or put within a single unit of recovery. This value must be an integer in the range 1 through 999 999 999. The default value is 10 000.

The number includes any trigger messages and report messages generated within the same unit of recovery.

CMDSCOPE

This parameter specifies how the command is executed when the queue manager is a member of a queue-sharing group.

CMDSCOPE cannot be used for commands issued from the first initialization input data set CSQINP1 and must be blank or the local queue manager.

'' The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name other than the queue manager on which it was entered, only if you are using a shared queue environment and if the command server is enabled.

- * The command is executed on the local queue manager and is also passed to every active queue manager in the queue-sharing group. The effect of this is the same as entering the command on every queue manager in the queue-sharing group.

DEFINE NAMELIST

DEFINE NAMELIST

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
✓	✓	✓	✓	✓	✓	2CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

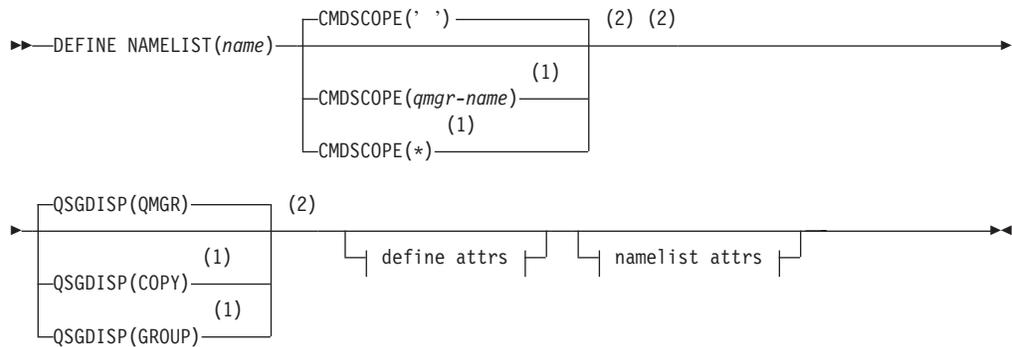
Use DEFINE NAMELIST to define a list of names. This is most commonly a list of cluster names or queue names.

Notes:

1. On UNIX systems, the command is valid only on AIX, HP-UX, Linux and Solaris.

Synonym: DEF NL

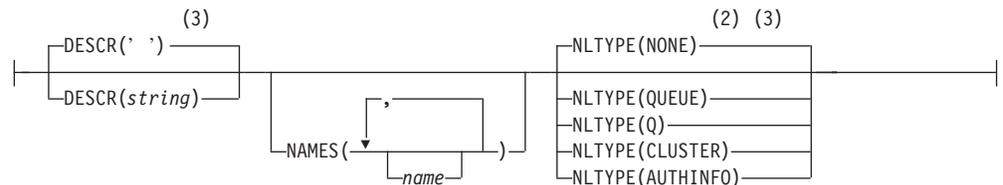
DEFINE NAMELIST



Define attrs:



Namelist attrs:



Notes:

1. Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
2. Valid only on z/OS.

- 3 This is the default supplied with WebSphere MQ, but your installation might have changed it.

Parameter descriptions

The parameter descriptions also apply to the ALTER NAMELIST command, with the following exceptions:

- The **LIKE** parameter applies only to the DEFINE NAMELIST command.
- The **REPLACE** and **NOREPLACE** parameter applies only to the DEFINE NAMELIST command.
- The variations in the **CMDSCOPE** and **QSGDISP** parameters between the ALTER NAMELIST and DEFINE NAMELIST commands are described.

(name) Name of the list. This is required.

The name must not be the same as any other namelist name currently defined on this queue manager (unless REPLACE or ALTER is specified). See “Rules for naming WebSphere MQ objects” on page 4.

CMDSCOPE

This parameter applies to z/OS only and specifies how the command is executed when the queue manager is a member of a queue-sharing group.

CMDSCOPE must be blank, or the local queue manager, if QSGDISP is set to GROUP.

‘ ‘ The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name other than the queue manager on which it was entered, only if you are using a shared queue environment and if the command server is enabled.

* The command is executed on the local queue manager and is also passed to every active queue manager in the queue-sharing group. The effect of this is the same as entering the command on every queue manager in the queue-sharing group.

DESCR(*string*)

Plain-text comment. It provides descriptive information about the namelist when an operator issues the DISPLAY NAMELIST command (see “DISPLAY NAMELIST” on page 220).

It should contain only displayable characters. The maximum length is 64 characters. In a DBCS installation, it can contain DBCS characters (subject to a maximum length of 64 bytes).

Note: If characters are used that are not in the coded character set identifier (CCSID) for this queue manager, they might be translated incorrectly if the information is sent to another queue manager.

LIKE(*namelist-name*)

The name of a namelist, whose parameters will be used to model this definition.

This parameter applies only to the DEFINE NAMELIST command

DEFINE NAMELIST

If this field is not filled in, and you do not complete the parameter fields related to the command, the values are taken from the default definition for namelists on this queue manager.

This is equivalent to specifying:

```
LIKE(SYSTEM.DEFAULT.NAMELIST)
```

A default namelist definition is provided, but it can be altered by the installation to the default values required. See “Rules for naming WebSphere MQ objects” on page 4.

On WebSphere MQ for z/OS, the queue manager searches page set zero for an object with the name you specify. The disposition of the LIKE object is not copied to the object you are defining.

Notes:

1. QSGDISP (GROUP) objects are not searched.
2. LIKE is ignored if QSGDISP(COPY) is specified.

NAMES(*name, ...*)

List of names.

The names can be of any type, but must conform to the rules for naming WebSphere MQ objects, with a maximum length of 48 characters.

An empty list is valid: specify NAMES(). The maximum number of names in the list is 256.

NLTYPE

Indicates the type of names in the namelist.

This parameter is valid only on z/OS.

NONE

The names are of no particular type.

QUEUE or Q

A namelist that holds a list of queue names.

CLUSTER

A namelist that is associated with clustering, containing a list of the cluster names.

AUTHINFO

This namelist is associated with SSL and should contain a list of authentication information object names.

Namelists used for clustering must have NLTYPE(CLUSTER) or NLTYPE(NONE).

Namelists used for SSL must have NLTYPE(AUTHINFO).

QSGDISP

This parameter applies to z/OS only.

Specifies the disposition of the object to which you are applying the command (that is, where it is defined and how it behaves).

QSGDISP	ALTER	DEFINE
COPY	The object definition resides on the page set of the queue manager that executes the command. The object was defined using a command that had the parameters QSGDISP(COPY). Any object residing in the shared repository, or any object defined using a command that had the parameters QSGDISP(QMGR), is not affected by this command.	The object is defined on the page set of the queue manager that executes the command using the QSGDISP(GROUP) object of the same name as the 'LIKE' object.
GROUP	The object definition resides in the shared repository. The object was defined using a command that had the parameters QSGDISP(GROUP). Any object residing on the page set of the queue manager that executes the command (except a local copy of the object) is not affected by this command. If the command is successful, the following command is generated and sent to all active queue managers in the queue-sharing group so that they refresh local copies on page set zero: DEFINE NAMELIST(name) REPLACE QSGDISP(COPY)	The object definition resides in the shared repository. This is allowed only if the queue manager is in a queue-sharing group. If the definition is successful, the following command is generated and sent to all active queue managers in the queue-sharing group so that they make or refresh local copies on page set zero: DEFINE NAMELIST(name) REPLACE QSGDISP(COPY)
PRIVATE	The object resides on the page set of the queue manager that executes the command, and was defined with QSGDISP(QMGR) or QSGDISP(COPY). Any object residing in the shared repository is unaffected.	Not permitted.
QMGR	The object definition resides on the page set of the queue manager that executes the command. The object was defined using a command that had the parameters QSGDISP(QMGR). Any object residing in the shared repository, or any local copy of such an object, is not affected by this command. This is the default value.	The object is defined on the page set of the queue manager that executes the command. This is the default value.

REPLACE and NOREPLACE

Whether the existing definition (and on z/OS, with the same disposition) is to be replaced with this one. This is optional. The default is NOREPLACE. Any object with a different disposition is not changed.

This parameter applies only to the DEFINE NAMELIST command

REPLACE

The definition should replace any existing definition of the same name. If a definition does not exist, one is created.

NOREPLACE

The definition should not replace any existing definition of the same name.

DEFINE PROCESS

DEFINE PROCESS

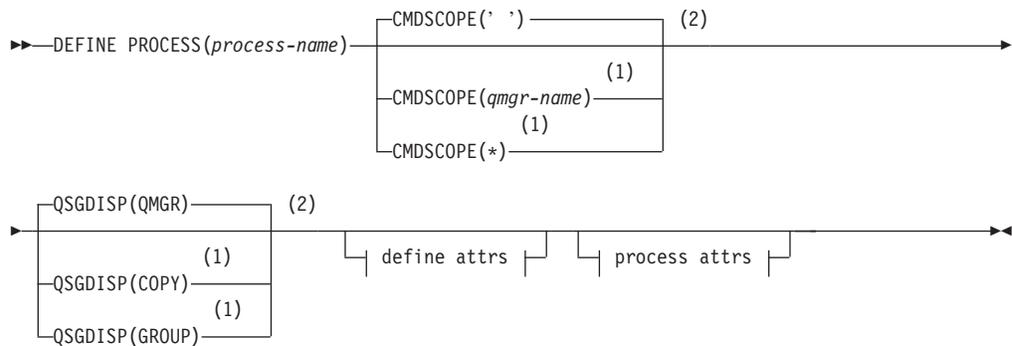
Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
✓	✓	✓	✓	✓	✓	2CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use DEFINE PROCESS to define a new WebSphere MQ process definition, and set its parameters.

Synonym: DEF PRO

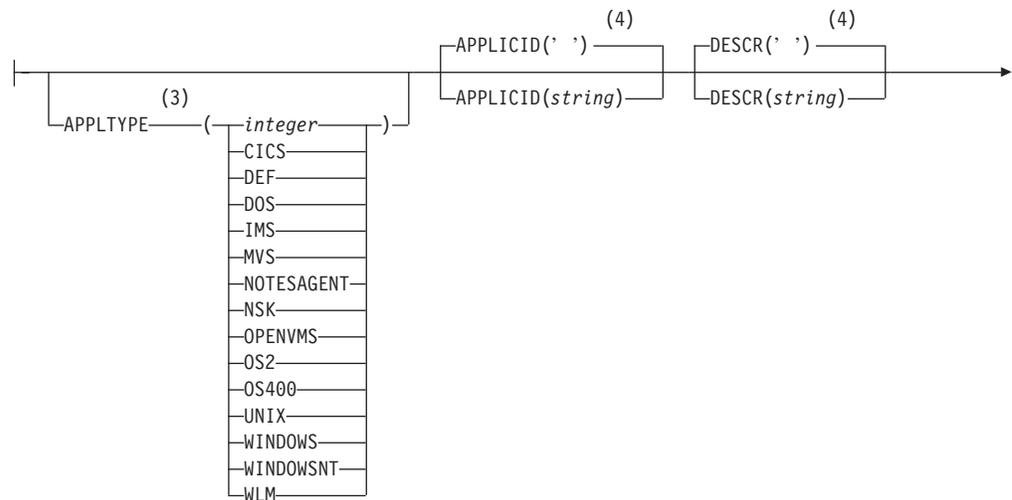
DEFINE PROCESS

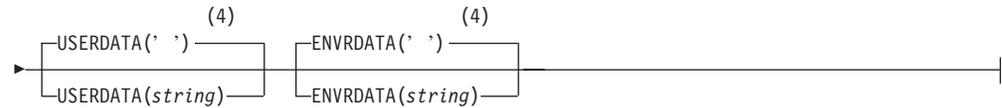


Define attrs:



Process attrs:





Notes:

- 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- 2 Valid only on z/OS.
- 3 The default depends on the platform, and can be changed by your installation.
- 4 This is the default supplied with WebSphere MQ, but your installation might have changed it.

Parameter descriptions

The parameter descriptions also apply to the ALTER PROCESS command, with the following exceptions:

- The **LIKE** parameter applies only to the DEFINE PROCESS command.
- The **NOREPLACE** and **REPLACE** parameter applies only to the DEFINE PROCESS command.
- The variations in the CMDSCOPE and QSGDISP parameters between the ALTER PROCESS and DEFINE PROCESS commands are described.

(process-name)

Name of the WebSphere MQ process definition (see “Rules for naming WebSphere MQ objects” on page 4). This is required.

The name must not be the same as any other process definition currently defined on this queue manager (unless REPLACE is specified).

APPLICID*(string)*

The name of the application to be started. This might typically be a fully-qualified file name of an executable object. The maximum length is 256 characters.

For a CICS application this is a CICS transaction ID, and for an IMS™ application it is an IMS transaction ID.

On z/OS, for distributed queuing using CICS it must be “CKSG”, and for distributed queuing without CICS, it must be “CSQX START”.

APPLTYPE*(string)*

The type of application to be started. Valid application types are:

integer

A system-defined application type in the range zero through 65 535 or a user-defined application type in the range 65 536 through 999 999 999.

For certain values in the system range, a parameter from the following list can be specified instead of a numeric value:

CICS Represents a CICS transaction.

DOS Represents a DOS application.

IMS Represents an IMS transaction.

MVS™

Represents a z/OS application (batch or TSO).

DEFINE PROCESS

NOTESAGENT

Represents a Lotus® Notes™ agent.

NSK Represents a Compaq NSK application.

OPENVMS

Represents a Compaq OpenVMS application.

OS2 Represents an OS/2 Warp application.

OS400 Represents an OS/400 application.

UNIX Represents a UNIX application.

WINDOWS

Represents a Windows application.

WINDOWSNT

Represents a Windows NT, Windows 2000, or Windows XP application.

WLM Represents a z/OS workload manager application.

DEF This causes the default application type for the platform at which the command is interpreted to be stored in the process definition. This default cannot be changed by the installation. If the platform supports clients, this is interpreted as the default application type of the server.

Only application types (other than user-defined types) that are supported on the platform at which the command is executed should be used:

- On Compaq OpenVMS, OPENVMS is supported
- On z/OS, CICS (default), DOS, IMS, MVS, OS2, UNIX, WINDOWS, WINDOWSNT, WLM, and DEF are supported
- On OS/400, OS400 (default), CICS, and DEF are supported
- On OS/2 Warp, OS2 (default), DOS, WINDOWS, UNIX, CICS, and DEF are supported
- On Compaq NSK, NSK is supported.
- On UNIX systems, UNIX (default), OS2, DOS, WINDOWS, CICS, and DEF are supported
- On Windows, WINDOWSNT (default), DOS, WINDOWS, OS2, UNIX, CICS, and DEF are supported

CMDSCOPE

This parameter applies to z/OS only and specifies how the command is executed when the queue manager is a member of a queue-sharing group.

CMDSCOPE must be blank, or the local queue manager, if QSGDISP is set to GROUP.

'' The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name other than the queue manager on which it was entered, only if you are using a shared queue environment and if the command server is enabled.

* The command is executed on the local queue manager and is also passed to every active queue manager in the queue-sharing group. The effect of this is the same as entering the command on every queue manager in the queue-sharing group.

DESCR(*string*)

Plain-text comment. It provides descriptive information about the object when an operator issues the DISPLAY PROCESS command.

It should contain only displayable characters. The maximum length is 64 characters. In a DBCS installation, it can contain DBCS characters (subject to a maximum length of 64 bytes).

Note: If characters are used that are not in the coded character set identifier (CCSID) for this queue manager, they might be translated incorrectly if the information is sent to another queue manager.

ENVRDATA(*string*)

A character string that contains environment information pertaining to the application to be started. The maximum length is 128 characters.

The meaning of ENVRDATA is determined by the trigger-monitor application. The trigger monitor provided by WebSphere MQ appends ENVRDATA to the parameter list passed to the started application. The parameter list consists of the MQTMC2 structure, followed by one blank, followed by ENVRDATA with trailing blanks removed.

Notes:

1. On z/OS, ENVRDATA is not used by the trigger-monitor applications provided by WebSphere MQ.

2. On z/OS, if APPLTYPE is WLM, the default values for the ServiceName and ServiceStep fields in the work information header (MQWIH) can be supplied in ENVRDATA. The format must be:

SERVICENAME=servname,SERVICESTEP=stepname

where:

SERVICENAME=

is the first 12 characters of ENVRDATA.

servname

is a 32-character service name. It can contain embedded blanks or any other data, and have trailing blanks. It is copied to the MQWIH as is.

SERVICESTEP=

is the next 13 characters of ENVRDATA.

stepname

is a 1- to 8-character service step name. It is copied as is to the MQWIH, and padded to 8 characters with blanks.

If the format is incorrect, the fields in the MQWIH are set to blanks.

3. On UNIX systems, ENVRDATA can be set to the ampersand character to make the started application run in the background.

LIKE(*process-name*)

The name of an object of the same type, whose parameters will be used to model this definition.

If this field is not filled in, and you do not complete the parameter fields related to the command, the values are taken from the default definition for this object.

This is equivalent to specifying:

DEFINE PROCESS

LIKE(SYSTEM.DEFAULT.PROCESS)

A default definition for each object type is provided, but these can be altered by the installation to the default values required. See “Rules for naming WebSphere MQ objects” on page 4.

On WebSphere MQ for z/OS, the queue manager searches page set zero for an object with the name you specify. The disposition of the LIKE object is not copied to the object you are defining.

Notes:

1. QSGDISP (GROUP) objects are not searched.
2. LIKE is ignored if QSGDISP(COPY) is specified.

QSGDISP

This parameter applies to z/OS only.

Specifies the disposition of the object to which you are applying the command (that is, where it is defined and how it behaves).

QSGDISP	ALTER	DEFINE
COPY	The object definition resides on the page set of the queue manager that executes the command. The object was defined using a command that had the parameters QSGDISP(COPY). Any object residing in the shared repository, or any object defined using a command that had the parameters QSGDISP(QMGR), is not affected by this command.	The object is defined on the page set of the queue manager that executes the command using the QSGDISP(GROUP) object of the same name as the 'LIKE' object.
GROUP	The object definition resides in the shared repository. The object was defined using a command that had the parameters QSGDISP(GROUP). Any object residing on the page set of the queue manager that executes the command (except a local copy of the object) is not affected by this command. If the command is successful, the following command is generated and sent to all active queue managers in the queue-sharing group to refresh local copies on page set zero: DEFINE PROCESS(process-name) REPLACE QSGDISP(COPY)	The object definition resides in the shared repository. This is allowed only if the queue manager is in a queue-sharing group. If the definition is successful, the following command is generated and sent to all active queue managers in the queue-sharing group to make or refresh local copies on page set zero: DEFINE PROCESS(process-name) REPLACE QSGDISP(COPY)
PRIVATE	The object resides on the page set of the queue manager that executes the command, and was defined with QSGDISP(QMGR) or QSGDISP(COPY). Any object residing in the shared repository is unaffected.	Not permitted.
QMGR	The object definition resides on the page set of the queue manager that executes the command. The object was defined using a command that had the parameters QSGDISP(QMGR). Any object residing in the shared repository, or any local copy of such an object, is not affected by this command. This is the default value.	The object is defined on the page set of the queue manager that executes the command. This is the default value.

REPLACE and NOREPLACE

Whether the existing definition (and on z/OS, with the same disposition) is to be replaced with this one. This is optional. The default is NOREPLACE. Any object with a different disposition is not changed.

REPLACE

The definition should replace any existing definition of the same name. If a definition does not exist, one is created.

NOREPLACE

The definition should not replace any existing definition of the same name.

USERDATA(*string*)

A character string that contains user information pertaining to the application defined in the APPLICID that is to be started. The maximum length is 128 characters.

The meaning of USERDATA is determined by the trigger-monitor application. The trigger monitor provided by WebSphere MQ simply passes USERDATA to the started application as part of the parameter list. The parameter list consists of the MQTMC2 structure (containing USERDATA), followed by one blank, followed by ENVIRONMENT with trailing blanks removed.

For WebSphere MQ message channel agents, the format of this field is a channel name of up to 20 characters. See the *WebSphere MQ Intercommunication* manual for information about what these need as APPLICID.

On Compaq NSK, a character string containing spaces must be enclosed in double quotation marks.

DEFINE PSID

DEFINE PSID

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
						1

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use DEFINE PSID to define a page set and associated buffer pool.

Notes:

1. If more than one DEFINE PSID command is issued for the same page set, only the last one is actioned.
2. You can use the DISPLAY USAGE TYPE(PAGESET) command to display information about page sets (see “DISPLAY USAGE” on page 266).

Synonym: DEF PSID

DEFINE PSID

►►—DEFINE PSID(*psid-number*)—BUFFPOOL(0)
BUFFPOOL(*integer*)—►►

Parameter descriptions

(psid-number)

Identifier of the page set. This is required.

In WebSphere MQ for z/OS a one-to-one relationship exists between page sets and the VSAM data sets used to store the pages. The identifier consists of a number in the range 00 through 99. It is used to generate a *ddname*, which references the VSAM ESDS data set, in the range CSQP0000 through CSQP0099.

The identifier must not be the same as any other page set identifier currently defined on this queue manager.

BUFFPOOL(*integer*)

The buffer pool number (in the range zero through 15). This is optional. The default is zero.

See “DEFINE BUFFPOOL” on page 70.

DEFINE queues

This section contains the following commands:

- “DEFINE QALIAS”
- “DEFINE QLOCAL” on page 131
- “DEFINE QMODEL” on page 133
- “DEFINE QREMOTE” on page 135

These queues are supported on the following platforms:

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
✓	✓	✓	✓	✓	✓	2CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

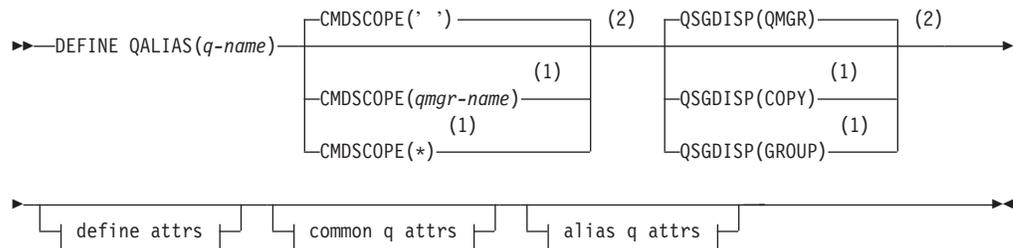
DEFINE QALIAS

Use DEFINE QALIAS to define a new alias queue, and set its parameters.

Note: An alias queue provides a level of indirection to another queue. The queue to which the alias refers must be another local or remote queue, defined at this queue manager. It cannot be another alias queue.

Synonym: DEF QA

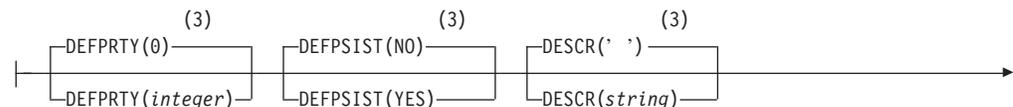
DEFINE QALIAS



Define attrs:



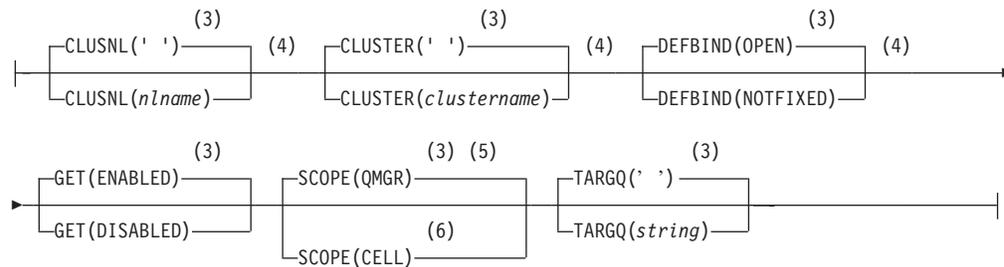
Common q attrs:



DEFINE QUEUES



Alias q attrs:



Notes:

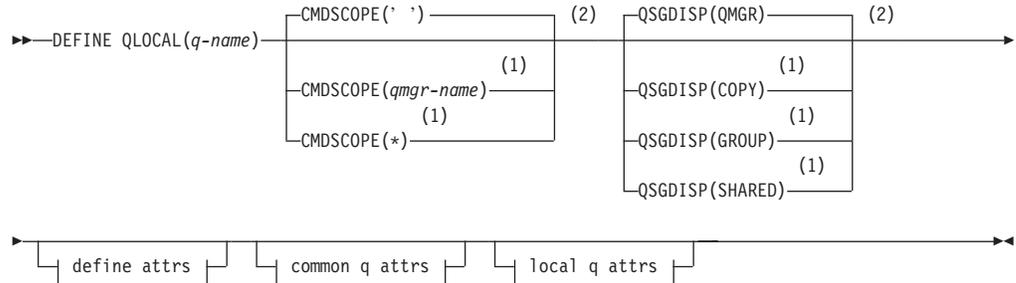
- 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- 2 Valid only on z/OS.
- 3 This is the default supplied with WebSphere MQ, but your installation might have changed it.
- 4 Valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.
- 5 Valid only on Compaq OpenVMS, OS/2 Warp, OS/400, UNIX systems, and Windows.
- 6 Valid only on Compaq OpenVMS, OS/2 Warp, UNIX systems, and Windows.

DEFINE QLOCAL

Use DEFINE QLOCAL to define a new local queue, and set its parameters.

Synonym: DEF QL

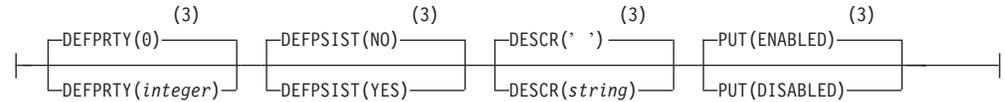
DEFINE QLOCAL



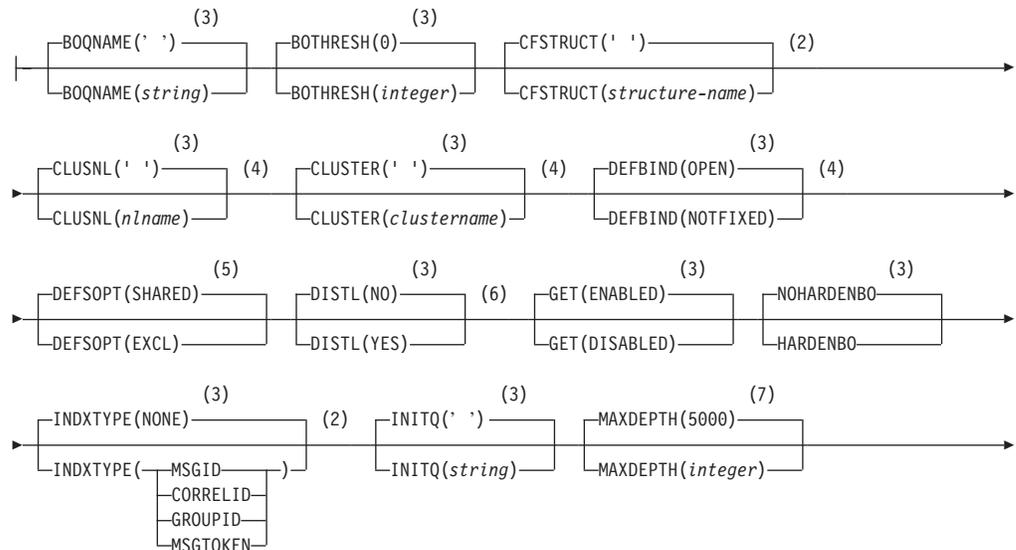
Define attrs:



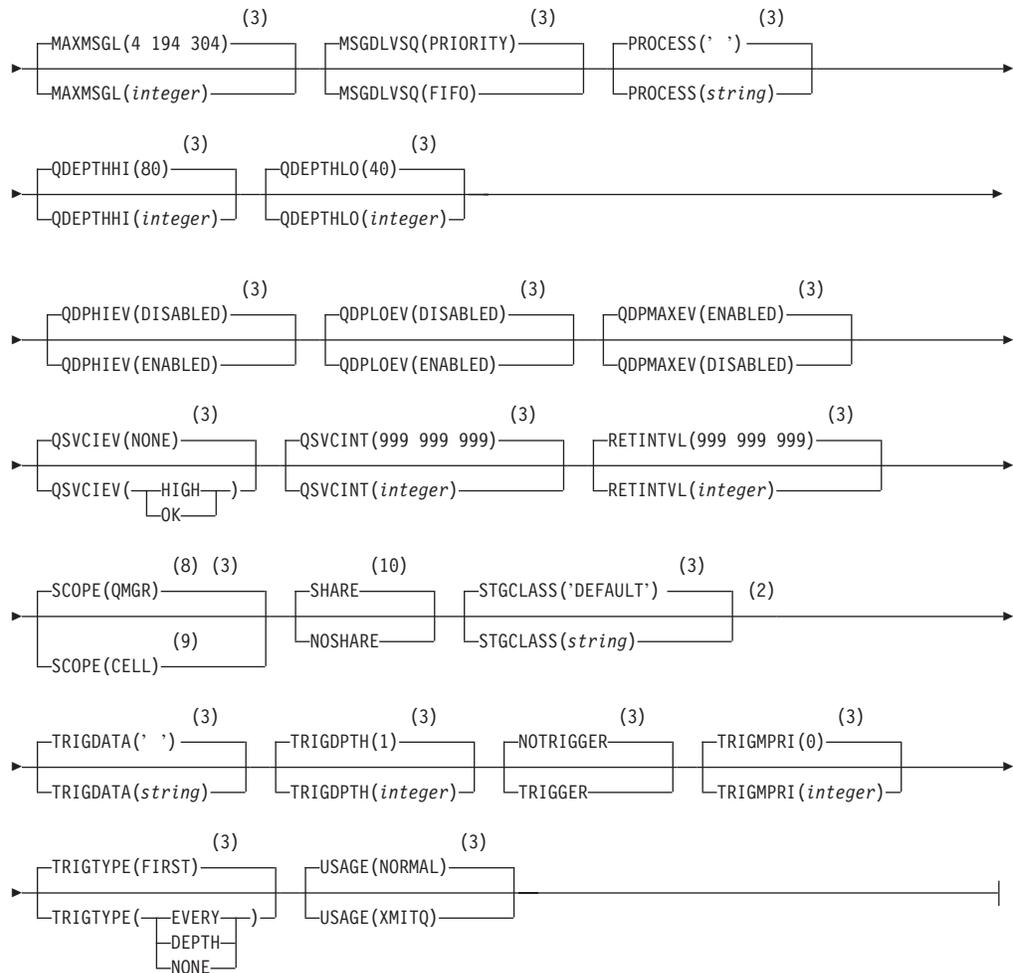
Common q attrs:



Local q attrs:



DEFINE QLOCAL



Notes:

- 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- 2 Used only on z/OS.
- 3 This is the default supplied with WebSphere MQ, but your installation might have changed it.
- 4 Valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.
- 5 This is the default supplied with WebSphere MQ (except on z/OS, where it is EXCL), but your installation might have changed it.
- 6 Valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, and Windows.
- 7 This is the default supplied with WebSphere MQ (except on z/OS, where it is 999 999 999), but your installation might have changed it.
- 8 Valid only on Compaq OpenVMS, OS/2 Warp, OS/400, UNIX systems, and Windows.
- 9 Valid only on Compaq OpenVMS, OS/2 Warp, UNIX systems, and Windows.
- 10 This is the default supplied with WebSphere MQ (except on z/OS, where it is NOSHARE), but your installation might have changed it.

DEFINE QMODEL

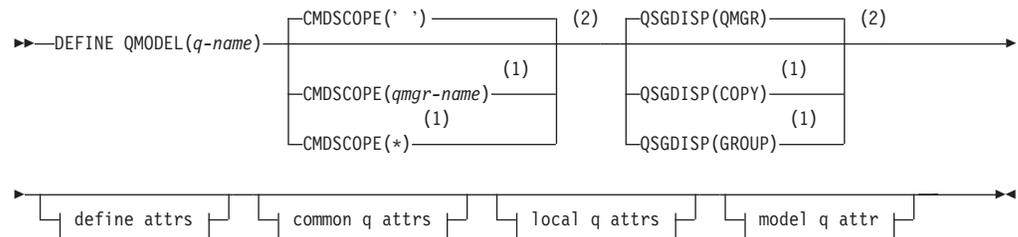
Use DEFINE QMODEL to define a new model queue, and set its parameters.

A model queue is not a real queue, but a collection of attributes that you can use when creating dynamic queues with the MQOPEN API call.

When it has been defined, a model queue (like any other queue) has a complete set of applicable attributes, even if some of these are defaults.

Synonym: DEF QM

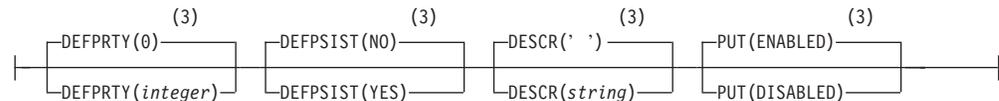
DEFINE QMODEL



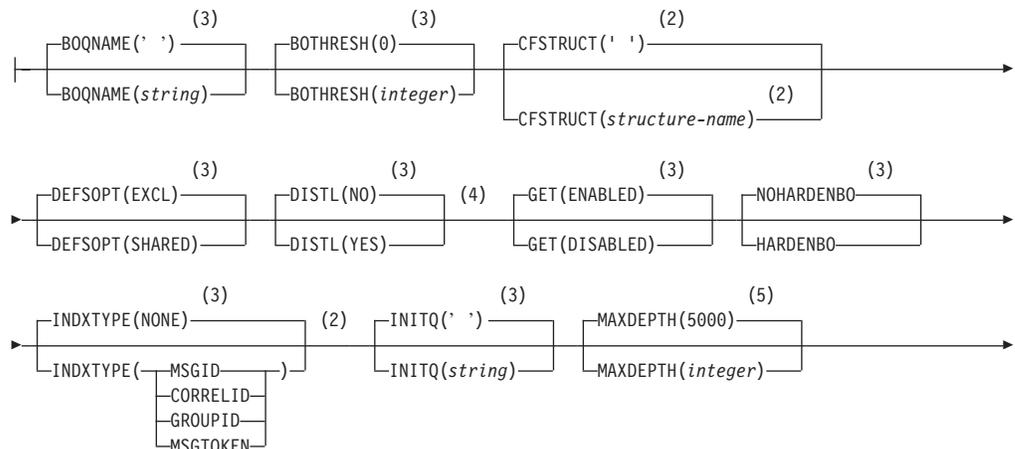
Define attrs:



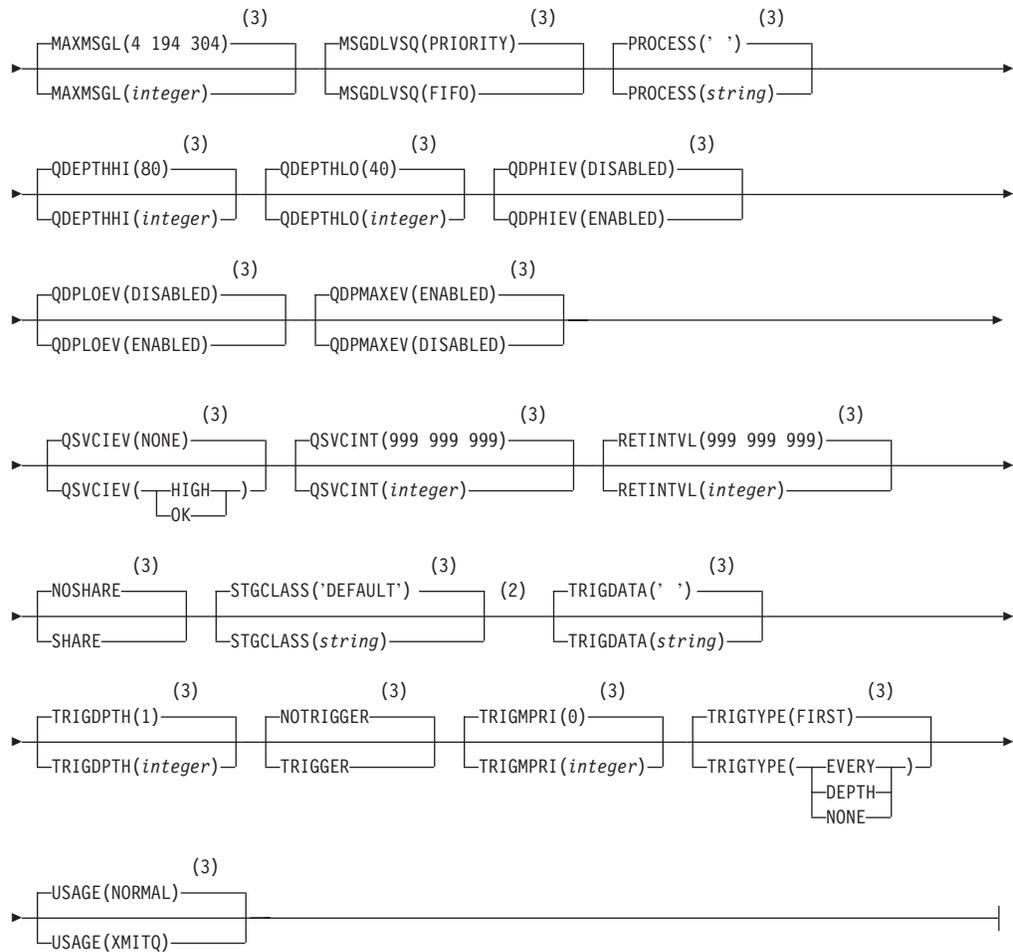
Common q attrs:



Local q attrs:



DEFINE QMODEL



Model q attr:



Notes:

- 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- 2 Used only on z/OS.
- 3 This is the default supplied with WebSphere MQ, but your installation might have changed it.
- 4 Valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, and Windows.
- 5 This is the default supplied with WebSphere MQ (except on z/OS, where it is 999 999 999), but your installation might have changed it.

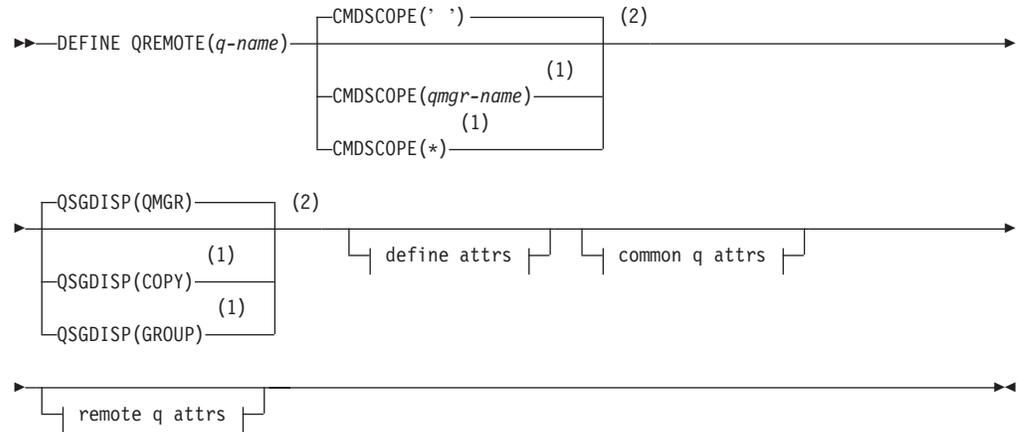
DEFINE QREMOTE

Use DEFINE QREMOTE to define a new local definition of a remote queue, a queue manager alias, or a reply-to queue alias, and to set its parameters.

A remote queue is one that is owned by another queue manager that application processes connected to this queue manager need to access.

Synonym: DEF QR

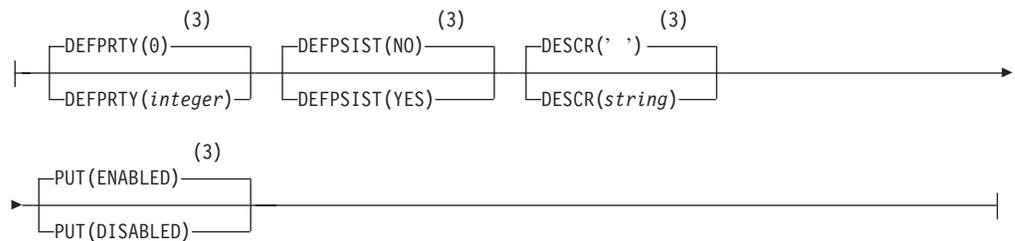
DEFINE QREMOTE



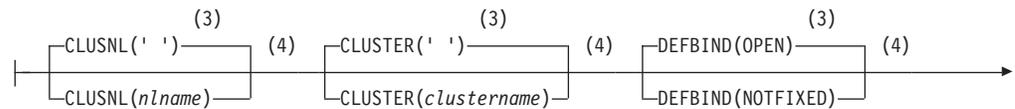
Define attrs:



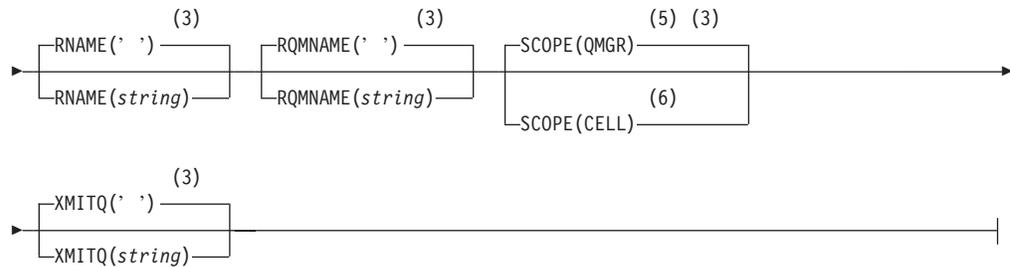
Common q attrs:



Remote q attrs:



DEFINE QREMOTE



Notes:

- 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- 2 Valid only on z/OS.
- 3 This is the default supplied with WebSphere MQ, but your installation might have changed it.
- 4 Valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.
- 5 Valid only on Compaq OpenVMS, OS/2 Warp, OS/400, UNIX systems, and Windows.
- 6 Valid only on Compaq OpenVMS, OS/2 Warp, UNIX systems, and Windows.

Parameter descriptions

The parameter descriptions also apply to the ALTER QUEUE commands, with the following exceptions:

- The **FORCE** parameter applies only to the ALTER QUEUE commands.
- The **LIKE** parameter applies only to the DEFINE QUEUE commands.
- The **REPLACE** and **NOREPLACE** parameter applies only to the DEFINE QUEUE commands.
- The variations in the **CMDSCOPE** and **QSGDISP** parameters between the ALTER QUEUE and DEFINE QUEUE commands are described.

(q-name)

Local name of the queue, except the remote queue where it is the local definition of the remote queue. This is required.

The name must not be the same as any other queue name (of whatever queue type) currently defined on this queue manager (unless REPLACE or ALTER is specified). See "Rules for naming WebSphere MQ objects" on page 4.

BOQNAME*(string)*

The excessive backout requeue name.

This parameter is supported only on local and model queues.

Apart from maintaining a value for this parameter, the queue manager takes no action based on its value.

BOTHRESH*(integer)*

The backout threshold.

This parameter is supported only on local and model queues.

Apart from maintaining a value for this parameter, the queue manager takes no action based on its value.

Specify a value in the range zero through 999 999 999.

CFSTRUCT(*structure-name*)

Specifies the name of the Coupling Facility structure where you want messages stored when you use shared queues.

This parameter is supported only on z/OS for local and model queues.

The name:

- Cannot have more than 12 characters
- Must start with an uppercase letter (A through Z)
- Can include only the characters A through Z and 0 through 9

The name of the queue-sharing group to which the queue manager is connected is prefixed to the name you supply. The name of the queue-sharing group is always four characters, padded with @ symbols if necessary. For example, if you use a queue-sharing group named NY03 and you supply the name PRODUCT7, the resultant Coupling Facility structure name is NY03PRODUCT7. Note that the administrative structure for the queue-sharing group (in this case NY03CSQ_ADMIN) cannot be used for storing messages.

For ALTER QLOCAL, ALTER QMODEL, DEFINE QLOCAL with REPLACE, and DEFINE QMODEL with REPLACE the following rules apply:

- On a local queue with QSGDISP(SHARED), CFSTRUCT cannot change. If you need to change either the CFSTRUCT or QSGDISP value you must delete and redefine the queue. To preserve any of the messages on the queue you must off-load the messages before you delete the queue and reload the messages after you have redefined the queue, or move the messages to another queue.
- On a model queue with DEFTYPE(SHAREDYN), CFSTRUCT cannot be blank.
- On a local queue with a QSGDISP other than SHARED, or a model queue with a DEFTYPE other than SHAREDYN, the value of CFSTRUCT does not matter.

For DEFINE QLOCAL with NOREPLACE and DEFINE QMODEL with NOREPLACE, the Coupling Facility structure:

- On a local queue with QSGDISP(SHARED) or a model queue with a DEFTYPE(SHAREDYN), CFSTRUCT cannot be blank.
- On a local queue with a QSGDISP other than SHARED, or a model queue with a DEFTYPE other than SHAREDYN, the value of CFSTRUCT does not matter.

Note: Before you can use the queue, the structure must be defined in the Coupling Facility Resource Management (CFRM) policy data set.

CLUSNL(*nlname*)

The name of the namelist that specifies a list of clusters to which the queue belongs.

This parameter is supported only on alias, local, and remote queues.

Changes to this parameter do not affect instances of the queue that are already open.

Define queues

Only one of the resultant values of CLUSTER or CLUSNL can be nonblank; you cannot specify a value for both.

On local queues, this parameter cannot be set for transmission, SYSTEM.CHANNEL.xx, SYSTEM.CLUSTER.xx, or SYSTEM.COMMAND.xx queues, and on z/OS only, for SYSTEM.QSG.xx queues.

This parameter is valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, Solaris, Windows, and z/OS.

Note: This parameter must be blank within the reduced function form of WebSphere MQ for z/OS supplied with WebSphere Application Server.

CLUSTER(*clustername*)

The name of the cluster to which the queue belongs.

This parameter is supported only on alias, local, and remote queues.

The maximum length is 48 characters conforming to the rules for naming WebSphere MQ objects. Changes to this parameter do not affect instances of the queue that are already open.

Only one of the resultant values of CLUSNL or CLUSTER can be nonblank; you cannot specify a value for both.

On local queues, this parameter cannot be set for transmission, SYSTEM.CHANNEL.xx, SYSTEM.CLUSTER.xx, or SYSTEM.COMMAND.xx queues, and on z/OS only, for SYSTEM.QSG.xx queues.

This parameter is valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.

Note: This parameter must be blank within the reduced function form of WebSphere MQ for z/OS supplied with WebSphere Application Server.

CMDSCOPE

This parameter applies to z/OS only and specifies how the command is executed when the queue manager is a member of a queue-sharing group.

CMDSCOPE must be blank, or the local queue manager, if QSGDISP is set to GROUP or SHARED.

' ' The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

* The command is executed on the local queue manager and is also passed to every active queue manager in the queue-sharing group. The effect of this is the same as entering the command on every queue manager in the queue-sharing group.

DEFBIND

Specifies the binding to be used when the application specifies MQOO_BIND_AS_Q_DEF on the MQOPEN call, and the queue is a cluster queue.

OPEN The queue handle is bound to a specific instance of the cluster queue when the queue is opened.

NOTFIXED

The queue handle is not bound to any particular instance of the cluster queue. This allows the queue manager to select a specific queue instance when the message is put using MQPUT, and to change that selection subsequently should the need arise.

The MQPUT1 call always behaves as if NOTFIXED had been specified.

This parameter is valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.

DEFPRTY(*integer*)

The default priority of messages put on the queue. The value must be in the range zero, (the lowest priority) through to the MAXPRTY queue manager parameter. (MAXPRTY is 9.)

DEFPSIST

Specifies the message persistence to be used when applications specify the MQPER_PERSISTENCE_AS_Q_DEF option.

NO Messages on this queue are lost across a restart of the queue manager. This is the default supplied with WebSphere MQ, but your installation might have changed it.

YES Messages on this queue survive a restart of the queue manager.

On z/OS, N and Y are accepted as synonyms of NO and YES.

DEFSOPT

The default share option for applications opening this queue for input:

EXCL The open request is for exclusive input from the queue

SHARED

The open request is for shared input from the queue

DEFTYPE

Queue definition type.

This parameter is supported only on model queues.

PERMDYN

A permanent dynamic queue is created when an application issues an MQOPEN MQI call with the name of this model queue specified in the object descriptor (MQOD).

On z/OS, the dynamic queue has a disposition of QMGR.

SHAREDYN

This option is available on z/OS only.

A permanent dynamic queue is created when an application issues an MQOPEN API call with the name of this model queue specified in the object descriptor (MQOD).

The dynamic queue has a disposition of SHARED.

Define queues

TEMPDYN

A temporary dynamic queue is created when an application issues an **MQOPEN** API call with the name of this model queue specified in the object descriptor (MQOD).

On z/OS, the dynamic queue has a disposition of QMGR.

Do not specify this value for a model queue definition with a DEFPSIST parameter of YES.

If you specify this option, do not specify INDXTYPE(MSGTOKEN).

DESCR(*string*)

Plain-text comment. It provides descriptive information about the object when an operator issues the DISPLAY QUEUE command.

It should contain only displayable characters. The maximum length is 64 characters. In a DBCS installation, it can contain DBCS characters (subject to a maximum length of 64 bytes).

Note: If characters are used that are not in the coded character set identifier (CCSID) for this queue manager, they might be translated incorrectly if the information is sent to another queue manager.

DISTL

Whether distribution lists are supported by the partner queue manager.

YES Distribution lists are supported by the partner queue manager.

NO Distribution lists are not supported by the partner queue manager.

Note: You should not normally change this parameter, because it is set by the MCA. However you can set this parameter when defining a transmission queue if the distribution list capability of the destination queue manager is known.

This parameter is valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, and Windows.

FORCE

This parameter applies only to the ALTER command on alias, local and remote queues.

Specify this parameter to force completion of the command in the following circumstances.

For an **alias** queue, if both of the following are true:

- The TARGQ parameter is specified
- An application has this alias queue open

For a **local queue**, if both of the following are true:

- The NOSHARE parameter is specified
- One or more applications have the queue open for input

FORCE is also needed if both of the following are true:

- The USAGE parameter is changed
- Either one or more messages are on the queue, or one or more applications have the queue open

Do not change the **USAGE** parameter while there are messages on the queue; the format of messages changes when they are put on a transmission queue.

For a **remote** queue if both of the following are true:

- The **XMITQ** parameter is changed
- One or more applications has this queue open as a remote queue

FORCE is also needed if both of the following are true:

- Any of the **RNAME**, **RQMNAME**, or **XMITQ** parameters are changed
- One or more applications has a queue open that resolved through this definition as a queue manager alias

Note: **FORCE** is not required if this definition is in use as a reply-to queue alias only.

If **FORCE** is not specified in the circumstances described, the command is unsuccessful.

GET Whether applications are to be permitted to get messages from this queue:

ENABLED

Messages can be retrieved from the queue (by suitably authorized applications). This is the default supplied with WebSphere MQ, but your installation might have changed it.

DISABLED

Applications cannot retrieve messages from the queue.

This parameter can also be changed using the **MQSET** API call.

HARDENBO and **NOHARDENBO**

Whether hardening should be used to ensure that the count of the number of times that a message has been backed out is accurate.

This parameter is supported only on local and model queues.

HARDENBO

The count is hardened.

NOHARDENBO

The count is not hardened. This is the default supplied with WebSphere MQ, but your installation might have changed it.

Note: On MQSeries for Compaq NonStop Kernel, this parameter is ignored. The backout count of a message is always hardened for persistent messages, and never hardened for non-persistent messages.

INDXTYPE

The type of index maintained by the queue manager to expedite **MQGET** operations on the queue:

This parameter is supported only on local and model queues.

NONE

No index is maintained. Use this when messages are usually retrieved sequentially or use both the message identifier and the correlation identifier as a selection criterion on the **MQGET** call.

Define queues

MSGID

An index of message identifiers is maintained. Use this when messages are usually retrieved using the message identifier as a selection criterion on the **MQGET** call with the correlation identifier set to NULL.

CORRELID

An index of correlation identifiers is maintained. Use this when messages are usually retrieved using the correlation identifier as a selection criterion on the **MQGET** call with the message identifier set to NULL.

GROUPID

An index of group identifiers is maintained. Use this when messages need to be retrieved using message grouping selection criteria.

Notes:

1. You cannot set **INDXTYPE** to **GROUPID** if the queue is a transmission queue.
2. You can only specify a shared queue with **INDXTYPE(GROUPID)** if the queue uses a CF structure at **CFLEVEL(3)**.

MSGTOKEN

An index of message tokens is maintained. Use this when the queue is a WLM-managed queue that you are using with the Workload Manager functions of z/OS.

Note: You cannot set **INDXTYPE** to **MSGTOKEN** if:

- The queue is a model queue with a definition type of **SHAREDYN**
- The queue is a temporary dynamic queue
- The queue is a transmission queue
- You specify **QSGDISP(SHARED)**

If you are altering or replacing an existing local queue, you can change the **INDXTYPE** parameter only in the cases indicated in the following table:

Define queues

Queue type		NON-SHARED			SHARED	
Queue state		Uncommitted activity	No uncommitted activity, messages present	No uncommitted activity, and empty	Open or messages present	Not open, and empty
Change INDXTYPE from:	To:	Change allowed?				
NONE	MSGID	No	Yes	Yes	No	Yes
NONE	CORRELID	No	Yes	Yes	No	Yes
NONE	MSGTOKEN	No	No	Yes	-	-
NONE	GROUPLD	No	No	Yes	No	Yes
MSGID	NONE	No	Yes	Yes	No	Yes
MSGID	CORRELID	No	Yes	Yes	No	Yes
MSGID	MSGTOKEN	No	No	Yes	-	-
MSGID	GROUPLD	No	No	Yes	No	Yes
CORRELID	NONE	No	Yes	Yes	No	Yes
CORRELID	MSGID	No	Yes	Yes	No	Yes
CORRELID	MSGTOKEN	No	No	Yes	-	-
CORRELID	GROUPLD	No	No	Yes	No	Yes
MSGTOKEN	NONE	No	Yes	Yes	-	-
MSGTOKEN	MSGID	No	Yes	Yes	-	-
MSGTOKEN	CORRELID	No	Yes	Yes	-	-
MSGTOKEN	GROUPLD	No	No	Yes	-	-
GROUPLD	NONE	No	No	Yes	No	Yes
GROUPLD	MSGID	No	No	Yes	No	Yes
GROUPLD	CORRELID	No	No	Yes	No	Yes
GROUPLD	MSGTOKEN	No	No	Yes	-	-

This parameter is supported only on z/OS. On other platforms, retrieval optimization might be provided, but it is not controlled by a queue parameter.

INITQ(string)

The local name of a local queue (known as the *initiation queue*) on this queue manager, to which trigger messages relating to this queue are written. See "Rules for naming WebSphere MQ objects" on page 4.

This parameter is supported only on local and model queues.

LIKE(qtype-name)

The name of a queue, whose parameters will be used to model this definition.

This parameter applies only to the appropriate DEFINE Queue command.

If this field is not filled in, and you do not complete the parameter fields related to the command, the values are taken from one of the following, depending upon the queue type:

Define queues

SYSTEM.DEFAULT.ALIAS.QUEUE	Alias queue
SYSTEM.DEFAULT.LOCAL.QUEUE	Local queue
SYSTEM.DEFAULT.MODEL.QUEUE	Model queue
SYSTEM.DEFAULT.REMOTE.QUEUE	Remote queue

This is equivalent to defining the following object:

```
LIKE(SYSTEM.DEFAULT.ALIAS.QUEUE)
```

for an alias queue, and similarly for other queue types.

These default queue definitions can be altered by the installation to the default values required.

On WebSphere MQ for z/OS, the queue manager searches page set zero for an object with the name you specify. If the object is not found, the queue manager then searches the shared repository. The disposition of the LIKE object is not copied to the object you are defining.

Notes:

1. QSGDISP (GROUP) objects are not searched.
2. LIKE is ignored if QSGDISP(COPY) is specified.

MAXDEPTH(*integer*)

The maximum number of messages allowed on the queue.

This parameter is supported only on local and model queues.

On AIX, Compaq OpenVMS, HP-UX, Linux, OS/400, Solaris, Windows, and z/OS, specify a value in the range zero through 999 999 999.

On any other WebSphere MQ platform, specify a value in the range zero through 640 000.

Other factors can still cause the queue to be treated as full, for example, if there is no further DASD space available.

If this value is reduced, any messages that are already on the queue that exceed the new maximum remain intact.

MAXMSGL(*integer*)

The maximum length (in bytes) of messages on this queue.

This parameter is supported only on local and model queues.

On AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, and Windows, specify a value in the range zero through to the maximum message length for the queue manager. See the MAXMSGL parameter of the ALTER QMGR command for more information.

On z/OS, specify a value in the range zero through 100 MB. However, if you also specify QSGDISP(SHARED), or DEFTYPE(SHAREDYN), the MAXMSGL must be in the range zero through 64 512 bytes.

On other platforms, specify a value in the range zero through 4 194 304 bytes (4 MB).

For a transmission queue, this value includes the space required for headers. It is recommended that the value should be at least 4000 bytes larger than the maximum expected length of user data in any message that could be put on a transmission queue.

If this value is reduced, any messages that are already on the queue whose length exceeds the new maximum are not affected.

Applications can use this parameter to determine the size of buffer they need to retrieve messages from the queue. Therefore, the value should only be reduced if it is known that this will not cause an application to operate incorrectly.

MSGDLVSQ

Message delivery sequence.

This parameter is supported only on local and model queues.

PRIORITY

Messages are delivered (in response to **MQGET** API calls) in first-in-first-out (FIFO) order within priority. This is the default supplied with WebSphere MQ, but your installation might have changed it.

FIFO Messages are delivered (in response to **MQGET** API calls) in FIFO order. Priority is ignored for messages on this queue.

If the message delivery sequence is changed from PRIORITY to FIFO while there are messages on the queue, the order of the messages already on the queue is not changed. Messages added to the queue subsequently take the default priority of the queue, and so might be processed before some of the existing messages.

If the message delivery sequence is changed from FIFO to PRIORITY, the messages put on the queue while the queue was set to FIFO take the default priority.

Note: If **INDXTYPE(GROUPID)** is specified with **MSGDLVSQ(PRIORITY)**, the priority in which groups are retrieved is based on the priority of the first message within each group. The priorities zero and one are used by the queue manager to optimize the retrieval of messages in logical order, thus the first message in each group should not use these priorities. If it does, the message is stored as if it was priority two.

PROCESS(*string*)

The local name of the WebSphere MQ process.

This parameter is supported only on local and model queues.

This is the name of a process instance that identifies the application started by the queue manager when a trigger event occurs. See "Rules for naming WebSphere MQ objects" on page 4.

The process does not have to be defined when the local queue is defined, but it *must* be available for a trigger event to occur.

If the queue is a transmission queue, the process gives the name of the channel to be started. This parameter is optional for transmission queues on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS; if you do not specify it, the channel name is taken from the value specified for the **TRIGDATA** parameter.

PUT Whether messages can be put on the queue.

ENABLED

Messages can be added to the queue (by suitably authorized

Define queues

applications). This is the default supplied with WebSphere MQ, but your installation might have changed it.

DISABLED

Messages cannot be added to the queue.

This parameter can also be changed using the **MQSET** API call.

QDEPTHHI(integer)

The threshold against which the queue depth is compared to generate a Queue Depth High event.

This parameter is supported only on local and model queues. For more information about the effect that shared queues on z/OS have on this event, see the *WebSphere MQ Event Monitoring* book.

This event indicates that an application has put a message on a queue, and this has caused the number of messages on the queue to become greater than or equal to the queue depth high threshold. See the **QDPHIEV** parameter.

The value is expressed as a percentage of the maximum queue depth (**MAXDEPTH** parameter), and must be greater than or equal to zero, and less than or equal to 100.

QDEPTHLO(integer)

The threshold against which the queue depth is compared to generate a Queue Depth Low event.

This parameter is supported only on local and model queues. For more information about the effect that shared queues on z/OS have on this event, see the *WebSphere MQ Event Monitoring* book.

This event indicates that an application has retrieved a message from a queue, and this has caused the number of messages on the queue to become less than or equal to the queue depth low threshold. See the **QDPLOEV** parameter.

The value is expressed as a percentage of the maximum queue depth (**MAXDEPTH** parameter), and must be in the range zero through 100.

QDPHIEV

Controls whether Queue Depth High events are generated.

This parameter is supported only on local and model queues.

A Queue Depth High event indicates that an application has put a message on a queue, and this has caused the number of messages on the queue to become greater than or equal to the queue depth high threshold (see the **QDEPTHHI** parameter).

Note: The value of this parameter can change implicitly. For more information on this, and the effect that shared queues on z/OS have on this event, see the description of the Queue Depth High event in the *WebSphere MQ Event Monitoring* book.

ENABLED

Queue Depth High events are generated

DISABLED

Queue Depth High events are not generated

QDPLOEV

Controls whether Queue Depth Low events are generated.

Define queues

This parameter is supported only on local and model queues.

A Queue Depth Low event indicates that an application has retrieved a message from a queue, and this has caused the number of messages on the queue to become less than or equal to the queue depth low threshold (see the QDEPTHLO parameter).

Note: The value of this parameter can change implicitly. For more information on this, and the effect that shared queues on z/OS have on this event, see the description of the Queue Depth Low event in the *WebSphere MQ Event Monitoring* book.

ENABLED

Queue Depth Low events are generated

DISABLED

Queue Depth Low events are not generated

QDPMAXEV

Controls whether Queue Full events are generated.

This parameter is supported only on local and model queues.

A Queue Full event indicates that a put to a queue has been rejected because the queue is full, that is, the queue depth has already reached its maximum value.

Note: The value of this parameter can change implicitly. For more information on this, and the effect that shared queues on z/OS have on this event, see the description of the Queue Full event in the *WebSphere MQ Event Monitoring* book.

ENABLED

Queue Full events are generated

DISABLED

Queue Full events are not generated

QSGDISP

This parameter applies to z/OS only.

Specifies the disposition of the object within the group.

QSGDISP	ALTER	DEFINE
COPY	The object definition resides on the page set of the queue manager that executes the command. The object was defined using a command that had the parameters QSGDISP(COPY). Any object residing in the shared repository, or any object defined using a command that had the parameters QSGDISP(QMGR), is not affected by this command.	<p>The object is defined on the page set of the queue manager that executes the command using the QSGDISP(GROUP) object of the same name as the 'LIKE' object.</p> <p>For local queues, messages are stored on the page sets of each queue manager and are available only through that queue manager.</p>

Define queues

QSGDISP	ALTER	DEFINE
GROUP	The object definition resides in the shared repository. The object was defined using a command that had the parameters QSGDISP(GROUP). Any object residing on the page set of the queue manager that executes the command (except a local copy of the object), or any object defined using a command that had the parameters QSGDISP(SHARED), is not affected by this command. If the command is successful, the following command is generated and sent to all active queue managers in the queue-sharing group to refresh local copies on page set zero: DEFINE QUEUE(q-name) REPLACE QSGDISP(COPY)	The object definition resides in the shared repository. This is allowed only if there is a shared queue manager environment. If the definition is successful, the following command is generated and sent to all active queue managers to make or refresh local copies on page set zero: DEFINE QUEUE(q-name) REPLACE QSGDISP(COPY)
PRIVATE	The object resides on the page set of the queue manager that executes the command, and was defined with QSGDISP(QMGR) or QSGDISP(COPY). Any object residing in the shared repository is unaffected.	Not permitted.
QMGR	The object definition resides on the page set of the queue manager that executes the command. The object was defined using a command that had the parameters QSGDISP(QMGR). Any object residing in the shared repository, or any local copy of such an object, is not affected by this command. This is the default value.	The object is defined on the page set of the queue manager that executes the command. This is the default value. For local queues, messages are stored on the page sets of each queue manager and are available only through that queue manager.
SHARED	This value applies only to local queues. The object definition resides in the shared repository. The object was defined using a command that had the parameters QSGDISP(SHARED). Any object residing on the page set of the queue manager that executes the command, or any object defined using a command that had the parameters QSGDISP(GROUP), is not affected by this command. If the queue is clustered, a command is generated and sent to all active queue managers in the queue-sharing group to notify them of this clustered, shared queue.	This option applies only to local queues. The object is defined in the shared repository. Messages are stored in the Coupling Facility and are available to any queue manager in the queue-sharing group. You can specify SHARED only if: <ul style="list-style-type: none"> • CFSTRUCT is nonblank • INDXTYPE is not MSGTOKEN • The queue is not one of the following: <ul style="list-style-type: none"> – SYSTEM.CHANNEL.INITQ – SYSTEM.CHANNEL.SEQNO – SYSTEM.CHANNEL.COMMAND – SYSTEM.COMMAND.INPUT If the queue is clustered, a command is generated and sent to all active queue managers in the queue-sharing group to notify them of this clustered, shared queue.

QSVCI EV

Controls whether Service Interval High or Service Interval OK events are generated.

This parameter is supported only on local and model queues and has no effect if it is specified on a shared queue.

A Service Interval High event is generated when a check indicates that no messages have been retrieved from the queue for at least the time indicated by the QSVCINT parameter.

A Service Interval OK event is generated when a check indicates that messages have been retrieved from the queue within the time indicated by the QSVCINT parameter.

Note: The value of this parameter can change implicitly. For more information, see the description of the Service Interval High and Service Interval OK events in the *WebSphere MQ Event Monitoring* book.

HIGH	Service Interval High events are generated
OK	Service Interval OK events are generated
NONE	No service interval events are generated

QSVCINT(*integer*)

The service interval used for comparison to generate Service Interval High and Service Interval OK events.

This parameter is supported only on local and model queues and has no effect if it is specified on a shared queue.

See the QSVCIEV parameter.

The value is in units of milliseconds, and must be in the range zero through 999 999 999.

REPLACE and NOREPLACE

This option controls whether any existing definition (and on WebSphere MQ for z/OS of the same disposition) is to be replaced with this one. Any object with a different disposition is not changed. The default is NOREPLACE.

REPLACE

If the object does exist, the effect is similar to issuing the ALTER command without the FORCE option and with *all* the other parameters specified. In particular, note that any messages that are on the existing queue are retained.

(The difference between the ALTER command without the FORCE option, and the DEFINE command with the REPLACE option, is that ALTER does not change unspecified parameters, but DEFINE with REPLACE sets *all* the parameters. When you use REPLACE, unspecified parameters are taken either from the object named on the LIKE option, or from the default definition, and the parameters of the object being replaced, if one exists, are ignored.)

The command fails if both of the following are true:

- The command sets parameters that would require the use of the FORCE option if you were using the ALTER command
- The object is open

The ALTER command with the FORCE option succeeds in this situation.

If SCOPE(CELL) is specified on Compaq OpenVMS, UNIX systems, OS/2 Warp, or Windows, and there is already a queue with the same name in the cell directory, the command fails, whether or not REPLACE is specified.

Define queues

NOREPLACE

The definition should not replace any existing definition of the object.

RETINTVL(*integer*)

The number of hours from the queue creation date and time (the date and time at which the queue was defined), after which the queue is no longer needed. The value must be in the range zero through 999 999 999.

This parameter is supported only on local and model queues.

The CRDATE and CRTIME can be displayed using the DISPLAY QUEUE command.

This information is available for use by an operator or a housekeeping application to delete queues that are no longer required.

Note: The queue manager does not delete queues based on this value, nor does it prevent queues from being deleted if their retention interval has not expired. It is the user's responsibility to take any required action.

RNAME(*string*)

Name of remote queue. This is the local name of the queue as defined on the queue manager specified by RQMNAME.

This parameter is supported only on remote queues.

- If this definition is used for a local definition of a remote queue, RNAME must not be blank when the open occurs.
- If this definition is used for a queue manager alias definition, RNAME must be blank when the open occurs.
- If this definition is used for a reply-to alias, this name is the name of the queue that is to be the reply-to queue.

The name is *not* checked to ensure that it contains only those characters normally allowed for queue names (see "Rules for naming WebSphere MQ objects" on page 4).

RQMNAME(*string*)

The name of the remote queue manager on which the queue RNAME is defined.

This parameter is supported only on remote queues.

- If an application opens the local definition of a remote queue, RQMNAME must not be blank or the name of the local queue manager. When the open occurs, if XMITQ is blank there must be a local queue of this name, which is to be used as the transmission queue.
- If this definition is used for a queue manager alias, RQMNAME is the name of the queue manager that is being aliased. It can be the name of the local queue manager. Otherwise, if XMITQ is blank, when the open occurs there must be a local queue of this name, which is to be used as the transmission queue.
- If this definition is used for a reply-to alias, this name is the name of the queue manager that is to be the reply-to queue manager.

The name is *not* checked to ensure that it contains only those characters normally allowed for WebSphere MQ object names (see "Rules for naming WebSphere MQ objects" on page 4).

SCOPE

Specifies the scope of the queue definition.

This parameter is supported only on alias, local, and remote queues.

QMGR

The queue definition has queue manager scope. This means that the definition of the queue does not extend beyond the queue manager that owns it. To open the queue for output from some other queue manager, either the name of the owning queue manager must be specified, or the other queue manager must have a local definition of the queue.

CELL The queue definition has cell scope. This means that the queue is known to all the queue managers in the cell, and can be opened for output merely by specifying the name of the queue; the name of the queue manager that owns the queue need not be specified.

If there is already a queue with the same name in the cell directory, the command fails. The REPLACE option has no effect on this.

This value is valid only if a name service supporting a cell directory (for example, the supplied DCE name service) has been configured.

This parameter is valid only on Compaq OpenVMS, OS/2 Warp, UNIX systems, and Windows.

SHARE and NOSHARE

Whether multiple applications can get messages from this queue.

This parameter is supported only on local and model queues.

SHARE

More than one application instance can get messages from the queue

NOSHARE

A single application instance only can get messages from the queue

STGCLASS(string)

The name of the storage class.

This parameter is supported only on local and model queues.

This is an installation-defined name.

This parameter is valid on z/OS only. For more information, see the *WebSphere MQ for z/OS Concepts and Planning Guide*.

The first character of the name must be uppercase A through Z, and subsequent characters either uppercase A through Z or numeric 0 through 9.

Note: You can change this parameter only if the queue is empty and closed.

On platforms other than z/OS, this parameter is ignored.

If you specify QSGDISP(SHARED) or DEFTYPE(SHAREDYN), this parameter is ignored.

Define queues

TARGQ(*string*)

The local name of the base queue being aliased. (See “Rules for naming WebSphere MQ objects” on page 4.) The maximum length is 48 characters.

This parameter is supported only on alias queues.

This must be one of the following (although this is not checked until the alias queue is opened by an application):

- A local queue (not a model queue)
- A local definition of a remote queue

This queue need not be defined until an application process opens the alias queue.

TRIGDATA(*string*)

The data that is inserted in the trigger message. The maximum length of the string is 64 bytes.

This parameter is supported only on local and model queues.

For a transmission queue on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, or z/OS, you can use this parameter to specify the name of the channel to be started.

This parameter can also be changed using the **MQSET** API call.

TRIGDPTH(*integer*)

The number of messages that have to be on the queue before a trigger message is written, if TRIGTYPE is DEPTH. The value must be in the range 1 through 999 999 999.

This parameter is supported only on local and model queues.

This parameter can also be changed using the **MQSET** API call.

TRIGGER and **NOTRIGGER**

Whether trigger messages are written to the initiation queue (named by the INITQ parameter) to trigger the application (named by the PROCESS parameter):

TRIGGER

Triggering is active, and trigger messages are written to the initiation queue.

NOTRIGGER

Triggering is not active, and trigger messages are not written to the initiation queue.

This parameter is supported only on local and model queues.

This is the default supplied with WebSphere MQ, but your installation might have changed it.

This parameter can also be changed using the **MQSET** API call.

TRIGMPRI(*integer*)

The message priority number that triggers this queue. The value must be in the range zero through to the MAXPRTY queue manager parameter (see “DISPLAY QMGR” on page 227 for details).

This parameter can also be changed using the **MQSET** API call.

TRIGTYPE

Whether and under what conditions a trigger message is written to the initiation queue (named by the INITQ parameter).

This parameter is supported only on local and model queues.

FIRST Whenever the first message of priority equal to or greater than that specified by the TRIGMPRI parameter of the queue arrives on the queue.

EVERY

Every time a message arrives on the queue with priority equal to or greater than that specified by the TRIGMPRI parameter of the queue.

DEPTH

When the number of messages with priority equal to or greater than that specified by TRIGMPRI is equal to the number indicated by the TRIGDPTH parameter.

NONE

No trigger messages are written.

This parameter can also be changed using the **MQSET** API call.

USAGE

Queue usage.

This parameter is supported only on local and model queues.

NORMAL

The queue is not a transmission queue.

XMITQ

The queue is a transmission queue, which is used to hold messages that are destined for a remote queue manager. When an application puts a message to a remote queue, the message is stored on the appropriate transmission queue whilst awaiting transmission to the remote queue manager.

If you specify this option, do not specify values for CLUSTER and CLUSNL and do not specify INDXTYPE(MSGTOKEN) or INDXTYPE(GROUPID).

XMITQ(*string*)

The name of the transmission queue to be used for forwarding messages to the remote queue, for either a remote queue or for a queue manager alias definition.

This parameter is supported only on remote queues.

If XMITQ is blank, a queue with the same name as RQMNAME is used as the transmission queue.

This parameter is ignored if the definition is being used as a queue manager alias and RQMNAME is the name of the local queue manager.

It is also ignored if the definition is used as a reply-to queue alias definition.

Usage notes

1. For alias queues:

Usage notes

- a. `DEFINE QALIAS(otherqname) TARGQ(aliasqueue) CLUSTER(c)` has the effect of advertising queue *aliasqueue* by the name *otherqname*.
 - b. `DEFINE QALIAS(otherqname) TARGQ(aliasqueue)` has the effect of allowing a queue advertised by the name *otherqname* to be used on this queue manager by the name *aliasqueue*.
2. For remote queues:
- a. `DEFINE QREMOTE(rqueue) RNAME(otherq) RQMNAME(otherqm) CLUSTER(cl)` has the effect of advertising this queue manager as a store and forward gateway to which messages for queue *rqueue* can be sent. It has no effect as a reply-to queue alias, except on the local queue manager.
`DEFINE QREMOTE(otherqm) RNAME() RQMNAME(anotherqm) XMITQ(xq) CLUSTER` has the effect of advertising this queue manager as a store and forward gateway to which messages for *anotherqm* can be sent.
 - b. RQMNAME can itself be the name of a cluster queue manager within the cluster, thus (as with QALIAS definitions) you can map the advertised queue manager name to another name locally.
 - c. It is possible for the values of RQMNAME and QREMOTE to be the same if RQMNAME is itself a cluster queue manager. If this definition is also advertised using a CLUSTER attribute, do not choose the local queue manager in the cluster workload exit because a cyclic definition will result.
 - d. Remote queues do not have to be defined locally. The advantage of doing so is that applications can refer to the queue by a simple, locally-defined name, rather than by one that is qualified by the ID of the queue manager on which the queue resides. This means that applications do not need to be aware of the real location of the queue.
 - e. A remote queue definition can also be used as a mechanism for holding a queue manager alias definition, or a reply-to queue alias definition. The name of the definition in these cases is:
 - The queue manager name being used as the alias for another queue manager name (queue manager alias), or
 - The queue name being used as the alias for the reply-to queue (reply-to queue alias).

DEFINE STGCLASS

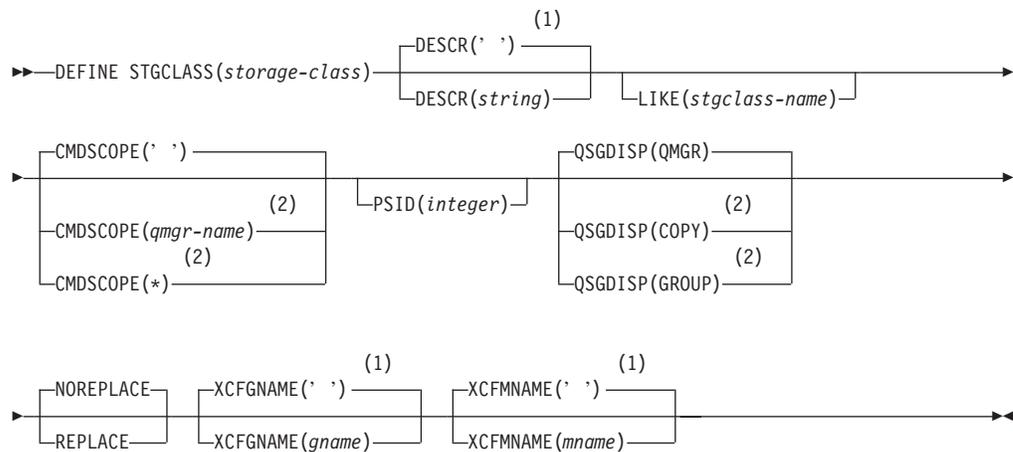
Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
						2CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use DEFINE STGCLASS to define a storage class to page set mapping.

Synonym: DEF STC

DEFINE STGCLASS



Notes:

- 1 This is the default supplied with WebSphere MQ, but your installation might have changed it.
- 2 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.

Parameter descriptions

The parameter descriptions also apply to the ALTER command, with the following exceptions:

- The **LIKE** parameter applies only to the DEFINE command.
- The **NOREPLACE** and **REPLACE** parameter applies only to the DEFINE command.
- The variations in the **CMDSCOPE** and **QSGDISP** parameters between the ALTER and DEFINE commands are described.

(storage-class)

Name of the storage class. This is required.

This is 1 through 8 characters. The first character is in the range A through Z; subsequent characters are A through Z or 0 through 9.

Note: Exceptionally, certain all numeric storage class names are allowed, but are reserved for the use of IBM service personnel.

DEFINE STGCLASS

The storage class must not be the same as any other storage class currently defined on this queue manager.

CMDSCOPE

This parameter specifies how the command is executed when the queue manager is a member of a queue-sharing group.

CMDSCOPE must be blank, or the local queue manager, if QSGDISP is set to GROUP.

' ' The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name other than the queue manager on which it was entered, only if you are using a shared queue environment and if the command server is enabled.

* The command is executed on the local queue manager and is also passed to every active queue manager in the queue-sharing group. The effect of this is the same as entering the command on every queue manager in the queue-sharing group.

DESCR(*description*)

Plain-text comment. It provides descriptive information about the object when an operator issues the DISPLAY STGCLASS command.

It should contain only displayable characters. The maximum length is 64 characters. In a DBCS installation, it can contain DBCS characters (subject to a maximum length of 64 bytes).

Note: If characters are used that are not in the coded character set identifier (CCSID) for this queue manager, they might be translated incorrectly if the information is sent to another queue manager

LIKE(*stgclass-name*)

The name of an object of the same type, whose parameters will be used to model this definition.

If this field is not filled in, and you do not complete the parameter fields related to the command, the values are taken from the default definition for this object.

This is equivalent to specifying:

LIKE(SYSTEMST)

This default storage class definition can be altered by your installation to the default values required.

The queue manager searches page set zero for an object with the name you specify. The disposition of the LIKE object is not copied to the object you are defining.

Notes:

1. QSGDISP (GROUP) objects are not searched.
2. LIKE is ignored if QSGDISP(COPY) is specified.

PSID(integer)

The page set identifier that this storage class is to be associated with. If you do not specify this, the value is taken from the default storage class SYSTEMST.

Note: No check is made that the page set has been defined; an error is raised only when you try to put a message to a queue that specifies this storage class (MQRC_PAGESET_ERROR).

The string consists of two numeric characters, in the range 00 through 99. See "DEFINE PSID" on page 128.

QSGDISP

Specifies the disposition of the object in the group.

QSGDISP	ALTER	DEFINE
COPY	The object definition resides on the page set of the queue manager that executes the command. The object was defined using a command that had the parameters QSGDISP(COPY). Any object residing in the shared repository, or any object defined using a command that had the parameters QSGDISP(QMGR), is not affected by this command.	The object is defined on the page set of the queue manager that executes the command using the QSGDISP(GROUP) object of the same name as the 'LIKE' object.
GROUP	The object definition resides in the shared repository. The object was defined using a command that had the parameters QSGDISP(GROUP). Any object residing on the page set of the queue manager that executes the command (except a local copy of the object) is not affected by this command. If the command is successful, the following command is generated and sent to all active queue managers in the queue-sharing group to refresh local copies on page set zero: DEFINE STGCLASS(storage-class) REPLACE QSGDISP(COPY)	The object definition resides in the shared repository. This is allowed only if the queue manager is in a queue-sharing group. If the definition is successful, the following command is generated and sent to all active queue managers in the queue-sharing group to make or refresh local copies on page set zero: DEFINE STGCLASS(storage-class) REPLACE QSGDISP(COPY)
PRIVATE	The object resides on the page set of the queue manager that executes the command, and was defined with QSGDISP(QMGR) or QSGDISP(COPY). Any object residing in the shared repository is unaffected.	Not permitted.
QMGR	The object definition resides on the page set of the queue manager that executes the command. The object was defined using a command that had the parameters QSGDISP(QMGR). Any object residing in the shared repository, or any local copy of such an object, is not affected by this command. This is the default value.	The object is defined on the page set of the queue manager that executes the command. This is the default value.

REPLACE and NOREPLACE

Whether the existing definition, and with the same disposition, is to be

DEFINE STGCLASS

replaced with this one. This is optional. The default is NOREPLACE. Any object with a different disposition is not changed.

REPLACE

The definition should replace any existing definition of the same name. If a definition does not exist, one is created.

If you use the REPLACE option, all queues that use this storage class must be empty.

NOREPLACE

The definition should not replace any existing definition of the same name.

XCFGNAME(*group name*)

If you are using the IMS bridge, this is the name of the XCF group to which the IMS system belongs. (This is the group name specified in the IMS parameter list.)

This is 1 through 8 characters. The first character is in the range A through Z; subsequent characters are A through Z or 0 through 9.

XCFMNAME(*member name*)

If you are using the IMS bridge, this is the XCF member name of the IMS system within the XCF group specified in XCFGNAME. (This is the member name specified in the IMS parameter list.)

This is 1 through 16 characters. The first character is in the range A through Z; subsequent characters are A through Z or 0 through 9.

Usage notes

1. The resultant values of XCFGNAME and XCFMNAME must either both be blank or both be nonblank.
2. You can change a storage class only if it is not being used by any queues. To determine whether any queues are using the storage class, you can use the following command:

```
DISPLAY QUEUE(*) STGCLASS(ABC) PSID(n)
```

where 'ABC' is the name of the storage class, and *n* is the identifier of the page set that the storage class is associated with.

This command gives a list of all queues that reference the storage class, and have an active association to page set *n*, and therefore identifies the queues that are actually preventing the change to the storage class. If you do not specify the PSID, you just get a list of queues that are potentially stopping the change.

See the DISPLAY QUEUE PSID command on page 241 for more information about active association of a queue to a page set.

DELETE AUTHINFO

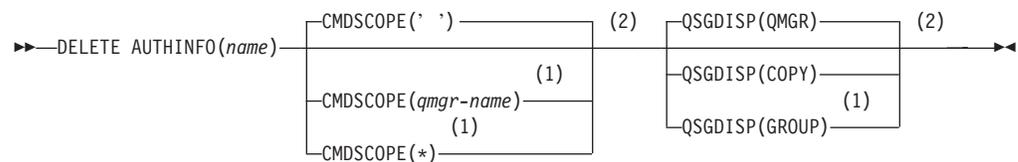
Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
		✓		✓	✓	2CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use DELETE AUTHINFO to delete an authentication information object.

Synonym: None

DELETE AUTHINFO



Notes:

- Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- Valid only on z/OS.

Parameter descriptions

(name) Name of the authentication information object. This is required.

The name must be that of an existing authentication information object. .

CMDSCOPE

This parameter applies to z/OS only and specifies how the command is executed when the queue manager is a member of a queue-sharing group.

CMDSCOPE must be blank, or the local queue manager, if QSGDISP is set to GROUP.

' ' The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

* The command is executed on the local queue manager and is also passed to every active queue manager in the queue-sharing group. The effect of this is the same as entering the command on every queue manager in the queue-sharing group.

DELETE AUTHINFO

QSGDISP

This parameter applies to z/OS only.

Specifies the disposition of the object to which you are applying the command (that is, where it is defined and how it behaves).

COPY The object definition resides on the page set of the queue manager that executes the command. The object was defined using a command that had the parameters QSGDISP(COPY). Any object residing in the shared repository, or any object defined using a command that had the parameters QSGDISP(QMGR), is not affected by this command.

GROUP

The object definition resides in the shared repository. The object was defined using a command that had the parameters QSGDISP(GROUP). Any object residing on the page set of the queue manager that executes the command (except a local copy of the object) is not affected by this command.

If the command is successful, the following command is generated and sent to all active queue managers in the queue-sharing group to delete local copies on page set zero:

```
DELETE AUTHINFO(name) QSGDISP(COPY)
```

QMGR

The object definition resides on the page set of the queue manager that executes the command. The object was defined using a command that had the parameters QSGDISP(QMGR). Any object residing in the shared repository, or any local copy of such an object, is not affected by this command.

This is the default value.

DELETE CFSTRUCT

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
						2CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use DELETE CFSTRUCT to delete a CF application structure definition. This command is valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.

Synonym: None

DELETE CFSTRUCT

►►—DELETE CFSTRUCT(*structure-name*)—◄◄

Keyword and parameter descriptions

(*structure-name*)

The name of the CF structure definition to be deleted. The name must be defined within the queue sharing group.

Usage notes

1. The command fails if there are any queues in existence that reference this CF structure name that are not both empty and closed.
2. The command cannot specify the CF administration structure (CSQ_ADMIN).
3. The command deletes the DB2® CF structure record only. It does **not** delete the CF structure definition from the CFRM policy data set.
4. CF structures at CFLEVEL(1) are automatically deleted when the last queue on that structure is deleted.

DELETE CHANNEL

DELETE CHANNEL

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
✓	✓	✓	✓	✓	✓	2CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

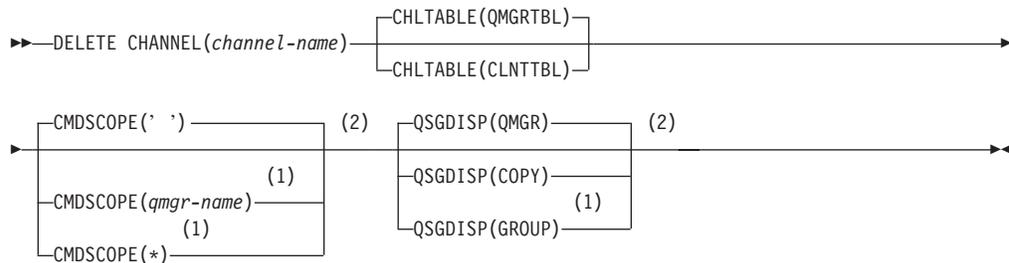
Use DELETE CHANNEL to delete a channel definition.

Notes for z/OS users:

1. This is valid only for channels used for distributed queuing without CICS. If you are using CICS for distributed queuing, see the *WebSphere MQ Intercommunication* manual.
2. The command fails if the channel initiator and command server have not been started, or the channel status is RUNNING, except client-connection channels, which can be deleted without the channel initiator or command server running.
3. You can only delete cluster-sender channels that have been created manually.
4. In the reduced function form of WebSphere MQ for z/OS supplied with WebSphere Application Server, the only channels supported are server-connection channels.

Synonym: DELETE CHL

DELETE CHANNEL



Notes:

- 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- 2 Valid only on z/OS.

Parameter descriptions

(channel-name)

The name of the channel definition to be deleted. This is required. The name must be that of an existing channel.

CHLTABLE

Specifies the channel definition table that contains the channel to be deleted. This is optional.

QMGR_TBL

The channel table is that associated with the target queue manager. This table does not contain any channels of type CLNTCONN. This is the default.

CLNT_TBL

The channel table for CLNTCONN channels. On Compaq OpenVMS, OS/2 Warp, OS/400, Compaq NSK, UNIX systems, and Windows, this is normally associated with a queue manager, but can be a system-wide, queue manager independent channel table if you set up a number of environment variables. For more information about setting up environment variables, see the *WebSphere MQ Clients* manual.

On z/OS, this is associated with the target queue manager, but separate from the main channel table.

CMDSCOPE

This parameter applies to z/OS only and specifies how the command is executed when the queue manager is a member of a queue-sharing group.

CMDSCOPE must be blank, or the local queue manager, if QSGDISP is set to GROUP.

' ' The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

* The command is executed on the local queue manager and is also passed to every active queue manager in the queue-sharing group. The effect of this is the same as entering the command on every queue manager in the queue-sharing group.

QSGDISP

This parameter applies to z/OS only.

Specifies the disposition of the object to which you are applying the command (that is, where it is defined and how it behaves).

COPY The object definition resides on the page set of the queue manager that executes the command. The object was defined using a command that had the parameters QSGDISP(COPY). Any object residing in the shared repository, or any object defined using a command that had the parameters QSGDISP(QMGR), is not affected by this command.

GROUP

The object definition resides in the shared repository. The object was defined using a command that had the parameters QSGDISP(GROUP). Any object residing on the page set of the queue manager that executes the command (except a local copy of the object) is not affected by this command.

DELETE CHANNEL

If the command is successful, the following command is generated and sent to all active queue managers in the queue-sharing group to delete local copies on page set zero:

```
DELETE CHANNEL(channel-name) QSGDISP(COPY)
```

QMGR

The object definition resides on the page set of the queue manager that executes the command. The object was defined using a command that had the parameters QSGDISP(QMGR). Any object residing in the shared repository, or any local copy of such an object, is not affected by this command.

This is the default value.

DELETE NAMELIST

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
✓	✓	✓	✓	✓	✓	2CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

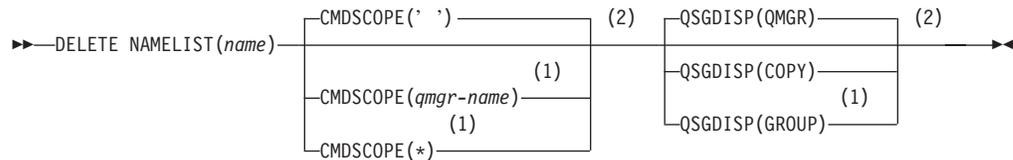
Use DELETE NAMELIST to delete a namelist definition.

Notes:

1. On UNIX systems, the command is valid only on AIX, HP-UX, Linux, and Solaris.

Synonym: DELETE NL

DELETE NAMELIST



Notes:

- 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- 2 Valid only on z/OS.

Parameter descriptions

You must specify which namelist definition you want to delete.

(name) The name of the namelist definition to be deleted. The name must be defined to the local queue manager.

If an application has this namelist open, the command fails.

CMDSCOPE

This parameter applies to z/OS only and specifies how the command is executed when the queue manager is a member of a queue-sharing group.

CMDSCOPE must be blank, or the local queue manager, if QSGDISP is set to GROUP.

' ' The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

DELETE NAMELIST

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

- * The command is executed on the local queue manager and is also passed to every active queue manager in the queue-sharing group. The effect of this is the same as entering the command on every queue manager in the queue-sharing group.

QSGDISP

This parameter applies to z/OS only.

Specifies the disposition of the object to which you are applying the command (that is, where it is defined and how it behaves).

COPY The object definition resides on the page set of the queue manager that executes the command. The object was defined using a command that had the parameters QSGDISP(COPY). Any object residing in the shared repository, or any object defined using a command that had the parameters QSGDISP(QMGR), is not affected by this command.

GROUP

The object definition resides in the shared repository. The object was defined using a command that had the parameters QSGDISP(GROUP). Any object residing on the page set of the queue manager that executes the command (except a local copy of the object) is not affected by this command.

If the command is successful, the following command is generated and sent to all active queue managers in the queue-sharing group to delete local copies on page set zero:

```
DELETE NAMELIST(name) QSGDISP(COPY)
```

QMGR

The object definition resides on the page set of the queue manager that executes the command. The object was defined using a command that had the parameters QSGDISP(QMGR). Any object residing in the shared repository, or any local copy of such an object, is not affected by this command.

This is the default value.

DELETE PROCESS

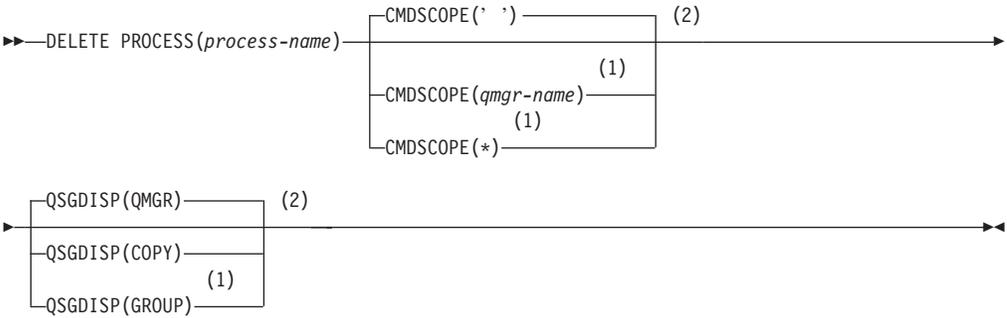
Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
✓	✓	✓	✓	✓	✓	2CR

For an explanation of the symbols in the z/OS column, see "Using commands in z/OS" on page 4.

Use DELETE PROCESS to delete a process definition.

Synonym: DELETE PRO

DELETE PROCESS



Notes:

- 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- 2 Valid only on z/OS.

Parameter descriptions

You must specify which process definition you want to delete.

(process-name)

The name of the process definition to be deleted. The name must be defined to the local queue manager.

If an application has this process open, the command fails.

CMDSCOPE

This parameter applies to z/OS only and specifies how the command is executed when the queue manager is a member of a queue-sharing group.

CMDSCOPE must be blank, or the local queue manager, if QSGDISP is set to GROUP.

' ' The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

DELETE PROCESS

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

- * The command is executed on the local queue manager and is also passed to every active queue manager in the queue-sharing group. The effect of this is the same as entering the command on every queue manager in the queue-sharing group.

QSGDISP

This parameter applies to z/OS only.

Specifies the disposition of the object to which you are applying the command (that is, where it is defined and how it behaves).

COPY The object definition resides on the page set of the queue manager that executes the command. The object was defined using a command that had the parameters QSGDISP(COPY). Any object residing in the shared repository, or any object defined using a command that had the parameters QSGDISP(QMGR), is not affected by this command.

GROUP

The object definition resides in the shared repository. The object was defined using a command that had the parameters QSGDISP(GROUP). Any object residing on the page set of the queue manager that executes the command (except a local copy of the object) is not affected by this command.

If the command is successful, the following command is generated and sent to all active queue managers in the queue-sharing group to delete local copies on page set zero:

```
DELETE PROCESS(process-name) QSGDISP(COPY)
```

QMGR

The object definition resides on the page set of the queue manager that executes the command. The object was defined using a command that had the parameters QSGDISP(QMGR). Any object residing in the shared repository, or any local copy of such an object, is not affected by this command.

This is the default value.

DELETE queues

This section contains the following commands:

- “DELETE QALIAS”
- “DELETE QLOCAL” on page 170
- “DELETE QMODEL” on page 171
- “DELETE QREMOTE” on page 171

These queues are supported on the following platforms:

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
✓	✓	✓	✓	✓	✓	2CR

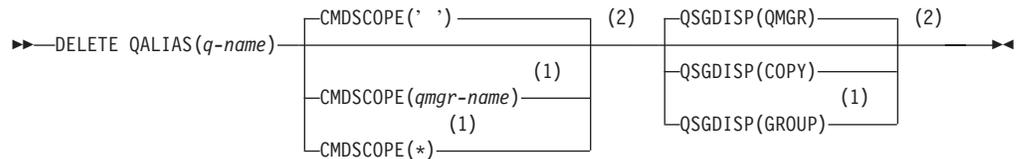
For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

DELETE QALIAS

Use DELETE QALIAS to delete an alias queue definition.

Synonym: DELETE QA

DELETE QALIAS



Notes:

- 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- 2 Valid only on z/OS.

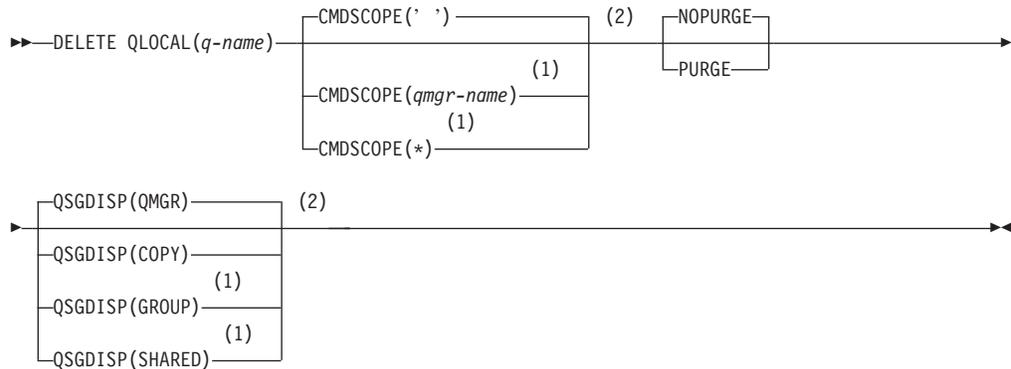
DELETE Queues

DELETE QLOCAL

Use DELETE QLOCAL to delete a local queue definition. You can specify that the queue must not be deleted if it contains messages, or that it can be deleted even if it contains messages.

Synonym: DELETE QL

DELETE QLOCAL



Notes:

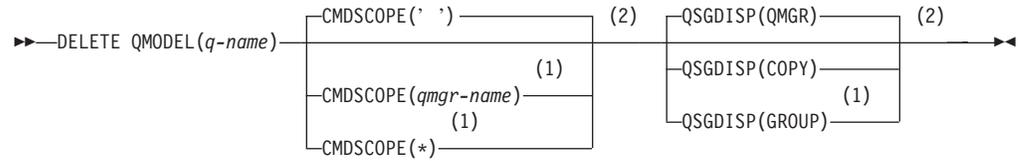
- 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- 2 Valid only on z/OS.

DELETE QMODEL

Use DELETE QMODEL to delete a model queue definition.

Synonym: DELETE QM

DELETE QMODEL



Notes:

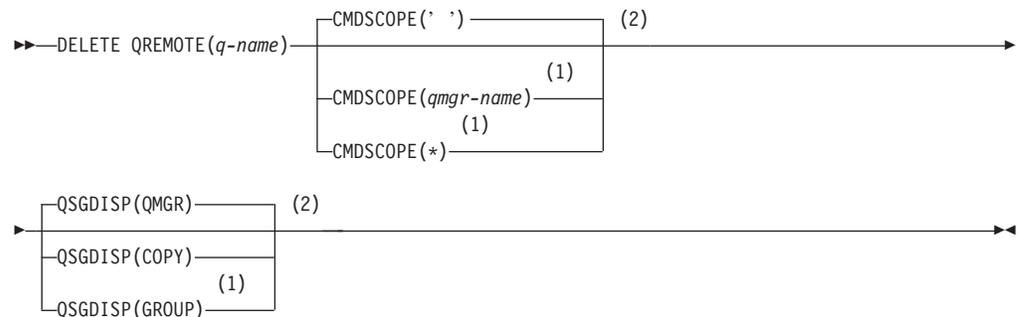
- 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- 2 Valid only on z/OS.

DELETE QREMOTE

Use DELETE QREMOTE to delete a local definition of a remote queue. It does not affect the definition of that queue on the remote system.

Synonym: DELETE QR

DELETE QREMOTE



Notes:

- 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- 2 Valid only on z/OS.

Parameter descriptions

(q-name)

The name of the queue must be defined to the local queue manager for all the queue types.

For an alias queue this is the local name of the alias queue to be deleted.

For a model queue this is the local name of the model queue to be deleted.

For a remote queue this is the local name of the remote queue to be deleted.

DELETE Queues

For a local queue this is the name of the local queue to be deleted. You must specify which queue you want to delete.

Note: A queue cannot be deleted if it contains uncommitted messages.

If an application has this queue open, or has open a queue that eventually resolves to this queue, the command fails. The command also fails if this queue is a transmission queue, and any queue that is, or resolves to, a remote queue that references this transmission queue, is open.

If this queue has a SCOPE attribute of CELL, the entry for the queue is also deleted from the cell directory.

CMDSCOPE

This parameter applies to z/OS only and specifies how the command is executed when the queue manager is a member of a queue-sharing group.

CMDSCOPE must be blank, or the local queue manager, if QSGDISP is set to GROUP or SHARED.

' ' The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

* The command is executed on the local queue manager and is also passed to every active queue manager in the queue-sharing group. The effect of this is the same as entering the command on every queue manager in the queue-sharing group.

PURGE and NOPURGE

Specifies whether or not any existing committed messages on the queue named by the DELETE command are to be purged for the delete command to work. The default is NOPURGE.

PURGE

The deletion is to go ahead even if there are committed messages on the named queue, and these messages are also to be purged.

NOPURGE

The deletion is not to go ahead if there are any committed messages on the named queue.

QSGDISP

Specifies the disposition of the object to which you are applying the command (that is, where it is defined and how it behaves). If the object definition is shared, you do not need to delete it on every queue manager that is part of a queue-sharing group. (Queue-sharing groups are available only on WebSphere MQ for z/OS.)

COPY The object definition resides on the page set of the queue manager that executes the command. The object was defined using a command that had the parameters QSGDISP(COPY). Any object

DELETE Queues

residing in the shared repository, or any object defined using a command that had the parameters QSGDISP(QMGR), is not affected by this command.

GROUP

The object definition resides in the shared repository. The object was defined using a command that had the parameters QSGDISP(GROUP). Any object residing on the page set of the queue manager that executes the command, or any object defined using a command that had the parameters QSGDISP(SHARED), is not affected by this command.

If the deletion is successful, the following command is generated and sent to all active queue managers in the queue-sharing group to make, or delete, local copies on page set zero:

```
DELETE queue(q-name) QSGDISP(COPY)
```

or, for a local queue only:

```
DELETE QLOCAL(q-name) NOPURGE QSGDISP(COPY)
```

Note: You always get the NOPURGE option even if you specify PURGE. To delete messages on local copies of the queues, you must explicitly issue the command:

```
DELETE QLOCAL(q-name) QSGDISP(COPY) PURGE
```

for each copy.

QMGR

The object definition resides on the page set of the queue manager that executes the command. The object was defined using a command that had the parameters QSGDISP(QMGR). Any object residing in the shared repository, or any local copy of such an object, is not affected by this command.

This is the default value.

SHARED

This option applies only to local queues.

The object definition resides in the shared repository. The object was defined using a command that had the parameters QSGDISP(SHARED). Any object residing on the page set of the queue manager that executes the command, or any object defined using a command that had the parameters QSGDISP(GROUP), is not affected by this command.

DELETE STGCLASS

DELETE STGCLASS

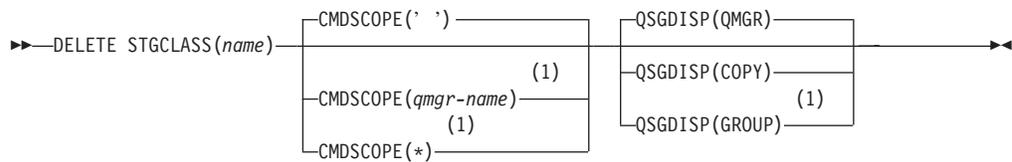
Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
						2CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use DELETE STGCLASS to delete a storage class definition

Synonym: DELETE STC

DELETE STGCLASS



Notes:

- 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.

Parameter descriptions

You must specify which storage class definition you want to delete.

All queues that use the storage class must be empty and closed.

(name) The name of the storage class definition to be deleted. The name must be defined to the local queue manager.

The command fails unless all queues referencing the storage class are empty and closed.

CMDSCOPE

This parameter specifies how the command is executed when the queue manager is a member of a queue-sharing group.

CMDSCOPE must be blank, or the local queue manager, if QSGDISP is set to GROUP.

' '

The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

*

The command is executed on the local queue manager and is also

DELETE STGCLASS

passed to every active queue manager in the queue-sharing group. The effect of this is the same as entering the command on every queue manager in the queue-sharing group.

QSGDISP

Specifies the disposition of the object to which you are applying the command (that is, where it is defined and how it behaves).

COPY The object definition resides on the page set of the queue manager that executes the command. The object was defined using a command that had the parameters QSGDISP(COPY). Any object residing in the shared repository, or any object defined using a command that had the parameters QSGDISP(QMGR), is not affected by this command.

GROUP

The object definition resides in the shared repository. The object was defined using a command that had the parameters QSGDISP(GROUP). Any object residing on the page set of the queue manager that executes the command (except a local copy of the object) is not affected by this command.

If the command is successful, the following command is generated and sent to all active queue managers in the queue-sharing group to delete local copies on page set zero:

```
DELETE STGCLASS(name) QSGDISP(COPY)
```

QMGR

The object definition resides on the page set of the queue manager that executes the command. The object was defined using a command that had the parameters QSGDISP(QMGR). Any object residing in the shared repository, or any local copy of such an object, is not affected by this command.

This is the default value.

DISPLAY ARCHIVE

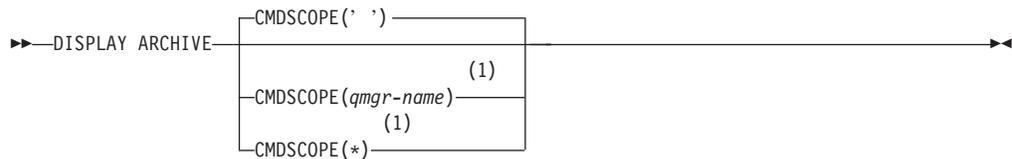
DISPLAY ARCHIVE

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
						12CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use DISPLAY ARCHIVE to display archive information.

Synonym: DIS ARC



Notes:

- 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.

Parameter descriptions

CMDSCOPE

This parameter specifies how the command is executed when the queue manager is a member of a queue-sharing group.

CMDSCOPE cannot be used for commands issued from the first initialization input data set CSQINP1.

' ' The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

* The command is executed on the local queue manager and is also passed to every active queue manager in the queue-sharing group. The effect of this is the same as entering the command on every queue manager in the queue-sharing group.

Usage notes

1. DISPLAY ARCHIVE returns a report that shows the initial values for the archiving parameters, and the current values as changed by the SETTM ARCHIVE command.

DISPLAY ARCHIVE

- Units in which primary and secondary space allocations are made (ALCUNIT).
- Prefix for first archive log data set name (ARCPFX1).
- Prefix for second archive log data set name (ARCPFX2).
- The retention period of the archive log data set in days (ARCRETN).
- List of route codes for messages to the operator about archive log data sets (ARCWRTC).
- Whether to send message to operator and wait for reply before trying to mount an archive log data set (ARCWTOR).
- Block size of archive log data set (BLKSIZE).
- Whether archive log data sets are cataloged in the ICF (CATALOG).
- Whether archive log data sets should be compacted (COMPACT).
- Primary space allocation for DASD data sets (PRIQTY).
- Whether archive log data sets are protected by ESM profiles when the data sets are created (PROTECT).
- Maximum time, in seconds, allowed for quiesce when ARCHIVE LOG with MODE(QUIESCE) specified (QUIESCE).
- Secondary space allocation for DASD data sets. See the ALCUNIT parameter for the units to be used (SECQTY).
- Whether the archive data set name should include a time stamp (TSTAMP).
- Device type or unit name on which the first copy of archive log data sets is stored (UNIT).
- Device type or unit name on which the second copy of archive log data sets is stored (UNIT2).

It also reports the status of tape units used for archiving.

2. This command is issued internally by WebSphere MQ at the end of queue manager startup.

DISPLAY AUTHINFO

DISPLAY AUTHINFO

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
		✓		✓	✓	2CR

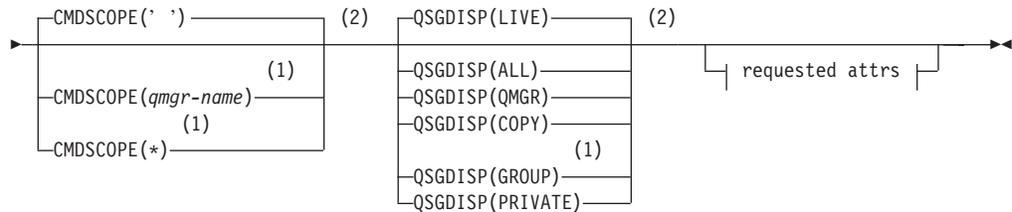
For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use DISPLAY AUTHINFO to display the attributes of an authentication information object.

Synonym: DIS AUTHINFO

DISPLAY AUTHINFO

►► DISPLAY AUTHINFO(*generic-authentication-information-object-name*) ALL →



Requested attrs:



Notes:

- 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- 2 Valid only on z/OS.

Parameter descriptions

(*generic-authentication-information-object-name*)

The name of the authentication information object to be displayed (see “Rules for naming WebSphere MQ objects” on page 4). A trailing asterisk (*) matches all authentication information objects with the specified stem followed by zero or more characters. An asterisk (*) on its own specifies all authentication information objects. The names must all be defined to the local queue manager.

ALL Specify this to display all the parameters. If this parameter is specified, any parameters that are requested specifically have no effect; all parameters are still displayed.

This is the default if you do not specify a generic name and do not request any specific parameters.

CMDSCOPE

This parameter applies to z/OS only and specifies how the command is executed when the queue manager is a member of a queue-sharing group.

CMDSCOPE must be blank, or the local queue manager, if QSGDISP is set to GROUP.

' ' The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

* The command is executed on the local queue manager and is also passed to every active queue manager in the queue-sharing group. The effect of this is the same as entering the command on every queue manager in the queue-sharing group.

QSGDISP

Specifies the disposition of the objects for which information is to be displayed. Values are:

LIVE This is the default value and displays information for objects defined with QSGDISP(QMGR) or QSGDISP(COPY).

ALL Displays information for objects defined with QSGDISP(QMGR) or QSGDISP(COPY).
If there is a shared queue manager environment, and the command is being executed on the queue manager where it was issued, this option also displays information for objects defined with QSGDISP(GROUP).
If QSGDISP(LIVE) is specified or defaulted, or if QSGDISP(ALL) is specified in a shared queue manager environment, the command might give duplicated names (with different dispositions).

COPY Display information only for objects defined with QSGDISP(COPY).

GROUP Display information only for objects defined with QSGDISP(GROUP). This is allowed only if there is a shared queue manager environment.

PRIVATE Display information for objects defined with

DISPLAY AUTHINFO

QSGDISP(QMGR) or QSGDISP(COPY). Note that QSGDISP(PRIVATE) displays the same information as QSGDISP(LIVE).

QMGR Display information only for objects defined with QSGDISP(QMGR).

QSGDISP displays one of the following values if it is specified, or if there is a shared queue manager environment:

QMGR The object was defined with QSGDISP(QMGR).

GROUP The object was defined with QSGDISP(GROUP).

COPY The object was defined with QSGDISP(COPY).

Requested parameters

Specify one or more parameters that define the data to be displayed. The parameters can be specified in any order, but do not specify the same parameter more than once.

The default, if no parameters are specified (and the ALL parameter is not specified) is that the object names and their AUTHTYPES are displayed.

ALTDATE The date on which the definition was last altered, in the form yyyy-mm-dd

ALTTIME The time at which the definition was last altered, in the form hh.mm.ss

AUTHTYPE The type of the authentication information

CONNAME The DNS name or IP address of the host on which the LDAP server is running

DESCR Description of the authentication information object

LDAPPWD Password associated with the Distinguished Name of the user on the LDAP server, displayed as xxxxxxxx

LDAPUSER Distinguished Name of the user on the LDAP server

See "DEFINE AUTHINFO" on page 66 for more information about individual parameters.

DISPLAY CFSTATUS

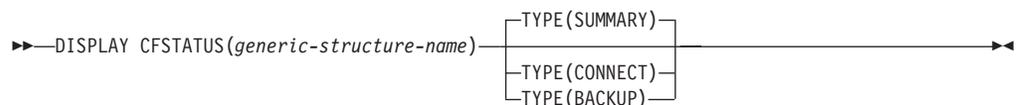
Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
						CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use DISPLAY CFSTATUS to display the status of one or more CF application structures. This command is valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.

Synonym: DIS CFSTATUS

DISPLAY CFSTATUS



Keyword and parameter descriptions

The name of the application structure for the status information to be displayed must be specified. This can be a specific application structure name or a generic name. By using a generic name, it is possible to display either:

- status information for all application structure definitions
- status information for one or more application structures that match the specified name

The type of status information to be returned can also be specified. This can be:

- summary status information for the application structure in the queue-sharing group
- connection status information for each queue manager in the queue-sharing group for each matching application structure name
- backup status information for each backup taken for each matching application structure defined in the queue-sharing group

(generic-structure-name)

The 12-character name of the CF application structure to be displayed. A trailing asterisk (*) matches all structure names with the specified stem followed by zero or more characters. An asterisk (*) on its own specifies all structure names.

The CF structure name must be defined within the queue-sharing group.

The CFSTATUS generic name can be the administration CF structure name (CSQ_ADMIN) or any generic form of this name. Data for this structure, however, is only displayed when TYPE is set to SUMMARY.

TYPE Specifies the type of status information required to be displayed. Values are:

DISPLAY CFSTATUS

SUMMARY

Display summary status information for the application structure. This is the default.

CONNECT

Display connection status information for each application structure for each active queue manager.

BACKUP

Display backup status information for each application structure.

Summary status

For summary status, the following information is returned for each structure that satisfies the selection criteria:

- The name of the application structure matching the generic name.
- The type of information returned.

CFTYPE

The CF structure type. This is one of the following:

ADMIN

This is the CF administration structure.

APPL

This is a CF application structure.

STATUS

The status of the CF application structure. This is one of the following:

ACTIVE

The structure is active.

FAILED

The structure has failed.

NOTFOUND

The structure is not allocated in the CF, but has been defined to DB2.

INBACKUP

The structure is in the process of being backed-up.

INRECOVER

The structure is in the process of being recovered.

SIZEMAX(*size*)

The size in kilobytes of the application structure.

SIZEUSED(*integer*)

The percentage of the size of the application structure that is in use. Therefore SIZEUSED(25) would indicate that a quarter of the space allocated to this application structure is in use.

ENTSMAX(*integer*)

The number of CF list entries defined for this application structure.

ENTSUSED(*integer*)

The number of CF list entries for this application structure that are in use.

FAILTIME(*time*)

The time that this application structure failed. The format of this field is hh.mm.ss. This parameter is only applicable when the CF structure is in FAILED or INRECOVER state. If the structure is not in a failed state, this is displayed as FAILTIME().

FAILDATE(*date*)

The date that this application-structure failed. The format of this field is yyyy-mm-dd. This parameter is only applicable when the CF structure is in FAILED or INRECOVER state. If the structure is not in a failed state, then this is displayed as FAILDATE().

Connection status

For connection status, the following information is returned for each connection to each structure that satisfies the selection criteria:

- The name of the application structure matching the generic name.
- The type of information returned.

QMNAME(*qmgrname*)

The queue manager name.

SYSNAME(*systemname*)

The name of the z/OS image of the queue manager that last connected to the application structure. These can be different across queue managers depending on the customer configuration setup.

STATUS

A status indicating whether or not this queue manager is connected to this application structure. This is one of the following:

ACTIVE

The structure is connected to this queue manager.

FAILED

The queue manager connection to this structure has failed.

NONE

The structure has never been connected to this queue manager.

FAILTIME(*time*)

The time that this queue manager lost connectivity to this application structure. The format of this field is hh.mm.ss. This parameter is only applicable when the CF structure is in FAILED state. If the structure is not in a failed state, this is displayed as FAILTIME().

FAILDATE(*date*)

The date that this queue manager lost connectivity to this application structure. The format of this field is yyyy-mm-dd. This parameter is only applicable when the CF structure is in FAILED state. If the structure is not in a failed state, this is displayed as FAILDATE().

Backup status

For backup status, the following information is returned for each structure that satisfies the selection criteria:

- The name of the application structure matching the generic name.
- The type of information returned.

STATUS

The status of the CF application structure. This is one of the following:

ACTIVE

The structure is active.

FAILED

The structure has failed.

DISPLAY CFSTATUS

| **NONE**
| The structure is defined as RECOVER(YES), but has never been backed up.

| **INBACKUP**
| The structure is in the process of being backed-up.

| **INRECOVER**
| The structure is in the process of being recovered.

| **QMNAME**(*qmgrname*)
| The name of the queue manager that took the last successful backup for this
| application structure.

| **BKUPTIME**(*time*)
| The end time of the last successful backup taken for this application structure.
| The format of this field is hh.mm.ss.

| **BKUPDATE**(*date*)
| The date of the last successful backup taken for this application structure. The
| format of this field is yyyy-mm-dd.

| **BKUPSIZE**(*size*)
| The size in megabytes of the last successful backup taken for this application
| structure.

| **BKUPSRBA**(*hexadecimal*)
| This is the backup dataset start RBA for the start of the last successful backup
| taken for this application structure.

| **BKUPERBA**(*hexadecimal*)
| This is the backup dataset end RBA for the end of the last successful backup
| taken for this application structure.

| **FAILTIME**(*time*)
| The time that this CF structure failed. The format of this field is hh.mm.ss. This
| parameter is only applicable when the CF structure is in FAILED state. If the
| structure is not in a failed state, this is displayed as FAILTIME().

| **FAILDATE**(*date*)
| The date that this CF structure failed. The format of this field is yyyy-mm-dd.
| This parameter is only applicable when the CF structure is in FAILED state. If
| the structure is not in a failed state, this is displayed as FAILDATE().

DISPLAY CFSTRUCT

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
						2CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use DISPLAY CFSTRUCT to display the attributes of one or more CF application structures. This command is valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.

Synonym: DIS CFSTRUCT

DISPLAY CFSTRUCT

►►—DISPLAY CFSTRUCT(*generic-structure-name*) ALL requested attrs ◀◀

Requested attrs:



Keyword and parameter descriptions

The name of the application structure to be displayed must be specified. This can be a specific application structure name or a generic name. By using a generic name, it is possible to display either:

- all application structure definitions
- one or more application structures that match the specified name

(generic-structure-name)

The 12-character name of the CF application structure to be displayed. A trailing asterisk (*) matches all structure names with the specified stem followed by zero or more characters. An asterisk (*) on its own specifies all structure names.

The CF structure name must be defined within the queue-sharing group.

ALL Specify this to display all attributes. If this keyword is specified, any attributes that are requested specifically have no effect; all attributes are still displayed.

Requested parameters

Specify one or more attributes that define the data to be displayed. The attributes can be specified in any order. Do not specify the same attribute more than once.

DISPLAY CFSTRUCT

| The default, if no parameters are specified (and the ALL parameter is not specified)
| is that the structure names are displayed.

| **ALTDATE**

| The date on which the definition was last altered, in the form yyyy-mm-dd.

| **ALTTIME**

| The time at which the definition was last altered, in the form hh.mm.ss.

| **CFLEVEL**

| Indicates the functional capability level for this CF application structure.

| **DESCR**

| Descriptive comment.

| **RECOVER**

| Indicates whether CF recovery for the application structure is supported.
| Values are:

| **NO**

| CF application structure recovery is not supported.

| **YES**

| CF application structure recovery is supported.

Usage notes

| 1. The command cannot specify the CF administration structure (CSQ_ADMIN).

DISPLAY CHANNEL

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
✓	✓	✓	✓	✓	✓	2CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

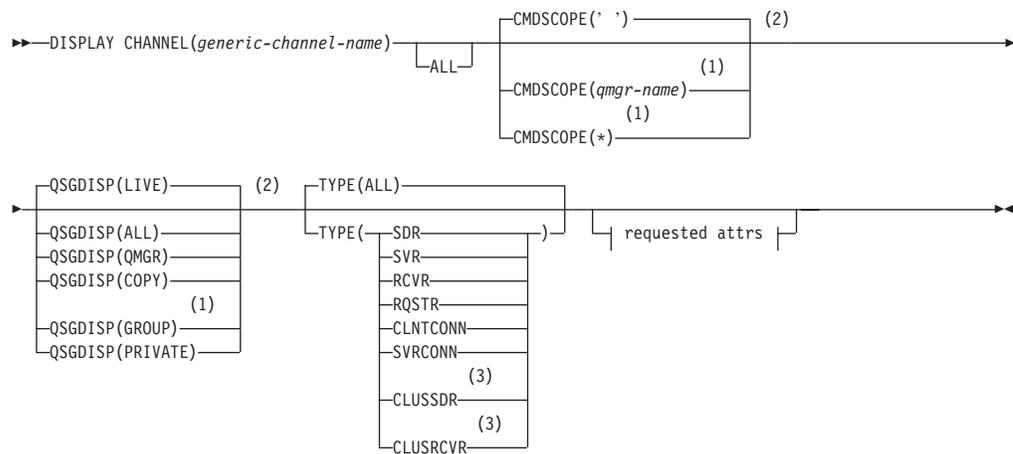
Use DISPLAY CHANNEL to display a channel definition.

Notes:

1. On z/OS, this is valid only for channels used for distributed queuing without CICS. If you are using CICS for distributed queuing, see the *WebSphere MQ Intercommunication* manual.
2. You can only display cluster-sender channels if they were created manually.

Synonym: DIS CHL

DISPLAY CHANNEL



Requested attrs:

DISPLAY CHANNEL

	(3)
ALTDATE	
	(3)
ALTTIME	
	(4)
AUTOSTART	
BATCHHB	
	(3)
BATCHINT	
BATCHSZ	
CHLTYPE	
	(3)
CLUSNL	
	(3)
CLUSTER	
CONNAME	
CONVERT	
DESCR	
DISCINT	
	(3)
HBINT	
	(2)
KAINIT	
LOCLADDR	
LONGRTY	
LONGTMR	
MAXMSGL	
MCANAME	
	(3)
MCATYPE	
MCAUSER	
MODENAME	
	(5)
MRDATA	
	(5)
MREXIT	
	(5)
MRRTY	
	(5)
MRTMR	
MSGDATA	
MSGEXIT	
	(3)
NETPRTY	
	(3)
NPMSPEED	
PASSWORD	
PUTAUT	
QMNAME	
RCVDATA	
RCVEXIT	
SCYDATA	
SCYEXIT	
SENDDATA	
SENDEXIT	
SEQWRAP	
SHORTRTY	
SHORTTMR	
	(6)
SSLCAUTH	
	(6)
SSLCIPH	
	(6)
SSLPEER	
TPNAME	
TRPTYPE	
USERID	
XMITQ	

Notes:

- 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- 2 Valid only on z/OS.
- 3 Valid only on AIX, Compaq OpenVMS, HP-UX, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.
- 4 Valid only on Compaq NSK.
- 5 Not valid on z/OS.
- 6 Valid only on AIX, HP-UX, Linux, OS/400, Solaris, Windows, and z/OS.

Parameter descriptions

You must specify the name of the channel definition you want to display. This can be a specific channel name or a generic channel name. By using a generic channel name, you can display either:

- All channel definitions
- One or more channel definitions that match the specified name

(generic-channel-name)

The name of the channel definition to be displayed (see “Rules for naming WebSphere MQ objects” on page 4). A trailing asterisk (*) matches all channel definitions with the specified stem followed by zero or more characters. An asterisk (*) on its own specifies all channel definitions. The names must all be defined to the local queue manager.

ALL Specify this to display all the parameters. If this parameter is specified, any parameters that are also requested specifically have no effect; all parameters are still displayed.

On AIX, Compaq OpenVMS, HP-UX, OS/2 Warp, OS/400, Solaris, Windows, and z/OS, this is the default if you do not specify a generic name and do not request any specific parameters.

If no parameters are specified (and the ALL parameter is not specified or defaulted), the default is that the channel names only are displayed. On z/OS, the CHLTYPE is also displayed.

CMDSCOPE

This parameter specifies how the command is executed when the queue manager is a member of a queue-sharing group.

CMDSCOPE cannot be used for commands issued from the first initialization input data set CSQINP1.

'' The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

* The command is executed on the local queue manager and is also

DISPLAY CHANNEL

passed to every active queue manager in the queue-sharing group. The effect of this is the same as entering the command on every queue manager in the queue-sharing group.

QSGDISP

Specifies the disposition of the objects for which information is to be displayed. Values are:

LIVE This is the default value and displays information for objects defined with QSGDISP(QMGR) or QSGDISP(COPY).

ALL Displays information for objects defined with QSGDISP(QMGR) or QSGDISP(COPY).

If there is a shared queue manager environment, and the command is being executed on the queue manager where it was issued, this option also displays information for objects defined with QSGDISP(GROUP).

If QSGDISP(ALL) is specified in a shared queue manager environment, the command might give duplicated names (with different dispositions) .

Note: In the QSGDISP(LIVE) case, this occurs only where a shared and a non-shared queue have the same name; such a situation should not occur in a well-managed system.

In a shared queue manager environment, use

```
DISPLAY CHANNEL(name) CMDSCOPE(*) QSGDISP(ALL)
```

to list ALL objects matching

name

in the queue-sharing group without duplicating those in the shared repository.

COPY Display information only for objects defined with QSGDISP(COPY).

GROUP Display information only for objects defined with QSGDISP(GROUP). This is allowed only if there is a shared queue manager environment.

PRIVATE Display information only for objects defined with QSGDISP(QMGR) or QSGDISP(COPY). Note that QSGDISP(PRIVATE) displays the same information as QSGDISP(LIVE).

QMGR Display information only for objects defined with QSGDISP(QMGR).

QSGDISP displays one of the following values if it is specified, or if there is a shared queue manager environment:

QMGR The object was defined with QSGDISP(QMGR).

GROUP The object was defined with QSGDISP(GROUP).

COPY The object was defined with QSGDISP(COPY).

DISPLAY CHANNEL

TYPE This is optional. It can be used to restrict the display to channels of one type.

The value is one of the following:

ALL Channels of all types are displayed (this is the default).

SDR Sender channels only are displayed.

SVR Server channels only are displayed.

RCVR Receiver channels only are displayed.

RQSTR Requester channels only are displayed.

CLNTCONN Client-connection channels only are displayed.

SVRCONN Server-connection channels only are displayed.

CLUSSDR Cluster-sender channels only are displayed (valid on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS only).

CLUSRCVR Cluster-receiver channels only are displayed (valid on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS only).

On AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, and Windows, *CHLTYPE(type)* can be used as a synonym for this parameter.

Requested parameters

Specify one or more parameters that define the data to be displayed. You can specify the parameters in any order, but do not specify the same parameter more than once.

Some parameters are relevant only for channels of a particular type or types. Attributes that are not relevant for a particular type of channel cause no output, nor is an error raised.

ALTDATE The date on which the definition was last altered, in the form *yyyy-mm-dd*.

ALTTIME The time at which the definition was last altered, in the form *hh.mm.ss*.

AUTOSTART Whether an LU 6.2 responder process should be started for the channel.

BATCHHB The batch heartbeating value being used.

BATCHINT Minimum batch duration.

BATCHSZ Batch size.

CHLTYPE Channel type.

On AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, and Windows the channel type is always displayed if you specify a generic channel name and do not request any other parameters. On z/OS, the channel type is always displayed.

DISPLAY CHANNEL

		On AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 WarpOS/2
		Warp, OS/400, Solaris, and Windows, TYPE(<i>type</i>) can be used as a
		synonym for this parameter.
	CLUSTER	The name of the cluster to which the channel belongs.
	CLUSNL	The name of the namelist that specifies the list of clusters to which the channel belongs.
	CONNNAME	Connection name.
	CONVERT	Whether sender should convert application message data.
	DESCR	Description.
	DISCINT	Disconnection interval.
	HBINT	Heartbeat interval.
	KAINT	KeepAlive timing for the channel (valid on z/OS only).
	LOCLADDR	Local communications address for the channel.
	LONGRTY	Long retry count.
	LONGTMR	Long retry timer.
	MAXMSGL	Maximum message length for channel.
	MCANAME	Message channel agent name.
	MCATYPE	Whether message channel agent runs as a separate process or a separate thread.
	MCAUSER	Message channel agent user identifier.
	MODENAME	LU 6.2 mode name.
	MRDATA	Channel message-retry exit user data.
	MREXIT	Channel message-retry exit name.
	MRRTY	Channel message-retry exit retry count.
	MRTMR	Channel message-retry exit retry time.
	MSGDATA	Channel message exit user data.
	MSGEXIT	Channel message exit names.
	NETPRTY	The priority for the network connection.
	NPMSPEED	Nonpersistent message speed.
	PASSWORD	Password for initiating LU 6.2 session (if nonblank, this is displayed as asterisks on all platforms except z/OS).
	PUTAUT	Put authority.
	QMNAME	Queue manager name.
	RCVDATA	Channel receive exit user data.
	RCVEXIT	Channel receive exit names.
	SCYDATA	Channel security exit user data.
	SCYEXIT	Channel security exit names.
	SENDDATA	Channel send exit user data.

DISPLAY CHANNEL

	SENDEXIT	Channel send exit names.
	SEQWRAP	Sequence number wrap value.
	SHORTRTY	Short retry count.
	SHORTTMR	Short retry timer.
	SSLCAUTH	Whether SSL client authentication is required.
	SSLCIPH	Cipher specification for the SSL connection.
	SSLPEER	Filter for the Distinguished Name from the certificate of the peer queue manager or client at the other end of the channel.
	TPNAME	LU 6.2 transaction program name.
	TRPTYPE	Transport type.
	USERID	User identifier for initiating LU 6.2 session.
	XMITQ	Transmission queue name.

DISPLAY CHSTATUS

DISPLAY CHSTATUS

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
✓	✓	✓	✓	✓	✓	2CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

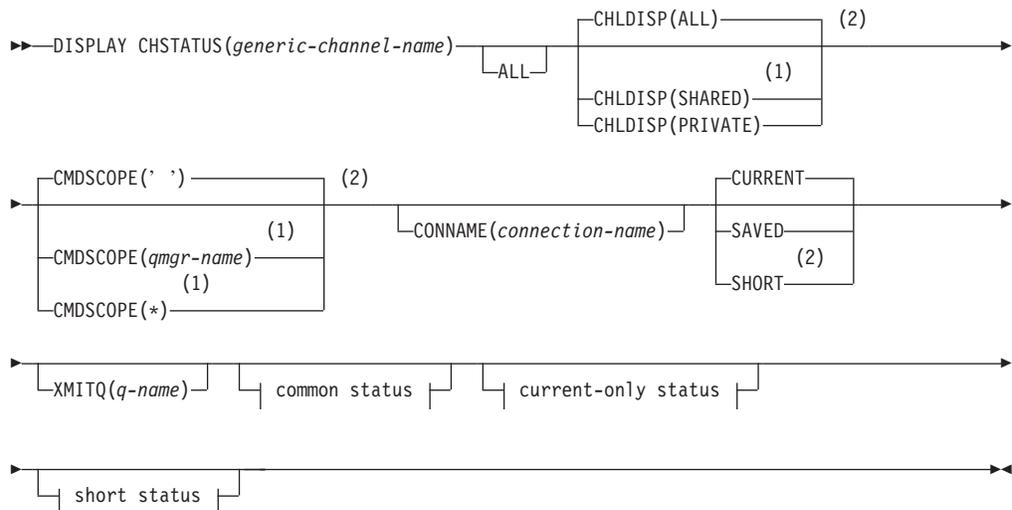
Use DISPLAY CHSTATUS to display the status of one or more channels.

Note: On z/OS:

1. This is valid only for channels used for distributed queuing without CICS. If you are using CICS for distributed queuing, see the *WebSphere MQ Intercommunication* manual.
2. The command fails if the channel initiator has not been started.
3. The command server must be running.

Synonym: DIS CHS

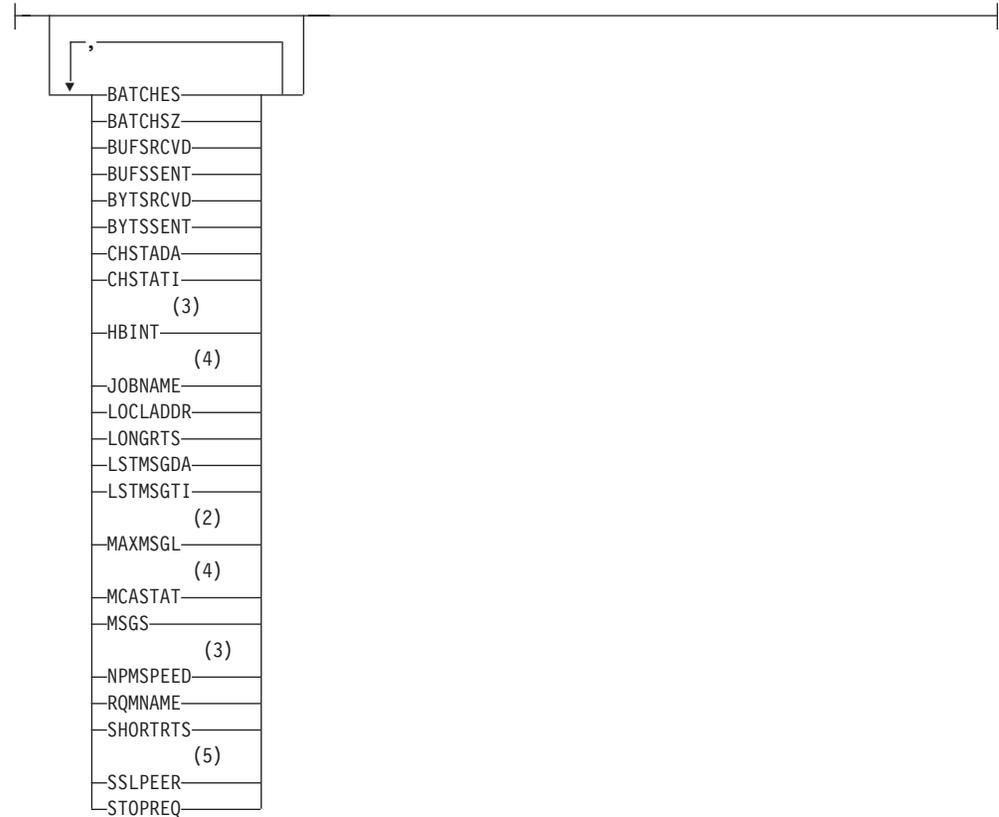
DISPLAY CHSTATUS



Common status:



Current-only status:



Short status:



Notes:

|
|

- 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- 2 Valid only on z/OS.
- 3 Valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.
- 4 Ignored if specified on z/OS.
- 5 Valid only on AIX, HP-UX, Linux, OS/400, Solaris, Windows, and z/OS.

Parameter descriptions

You must specify the name of the channel for which you want to display status information. This can be a specific channel name or a generic channel name. By using a generic channel name, you can display either:

- Status information for all channels, or
- Status information for one or more channels that match the specified name.

You can also specify whether you want:

DISPLAY CHSTATUS

- The current status data (of current channels only), or
- The saved status data of all channels.

Status for all channels that meet the selection criteria is given, whether the channels were defined manually or automatically.

Before explaining the syntax and options for this command, it is necessary to describe the format of the status data that is available for channels and the states that channels can have.

There are three classes of data available for channel status. These are **saved**, **current**, and (on z/OS only) **short**.

The status fields available for saved data are a subset of the fields available for current data and are called **common** status fields. Note that although the common data *fields* are the same, the data *values* might be different for saved and current status. The rest of the fields available for current data are called **current-only** status fields.

- **Saved** data consists of the common status fields noted in the syntax diagram. This data is reset at the following times:
 - For all channels:
 - When the channel enters or leaves STOPPED or RETRY state
 - On AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, and Windows, when the queue manager is ended
 - For a sending channel:
 - Before requesting confirmation that a batch of messages has been received
 - When confirmation has been received
 - For a receiving channel:
 - Just before confirming that a batch of messages has been received
 - For a server connection channel:
 - No data is saved

Therefore, a channel that has never been current cannot have any saved status.

Note: Status is not saved until a persistent message is transmitted across a channel, or a nonpersistent message is transmitted with a NPMSPEED of NORMAL. Because status is saved at the end of each batch, a channel does not have any saved status until at least one batch has been transmitted.

- **Current** data consists of the common status fields and current-only status fields as noted in the syntax diagram. The data fields are continually updated as messages are sent/received.
- **Short** data consists of the STATUS current data item and the short status field as noted in the syntax diagram.

This method of operation has the following consequences:

- An inactive channel might not have any saved status – if it has never been current or has not yet reached a point where saved status is reset.
- The “common” data fields might have different values for saved and current status.
- A current channel always has current status and might have saved status.

Note: On MQSeries for Compaq NonStop Kernel, channel status is updated only at the boundaries of batch processing. Channel status information is not

updated for every message transfer because of the potential impact on the performance of channels. This means that the common status data values are identical for both the current and saved sets.

Channels can be current or inactive:

Current channels

These are channels that have been started, or on which a client has connected, and that have not finished or disconnected normally. They might not yet have reached the point of transferring messages, or data, or even of establishing contact with the partner. Current channels have **current** status and might also have **saved** status.

The term **Active** is used to describe the set of current channels that are not stopped.

Inactive channels

These are channels that either:

- Have not been started
- On which a client has not connected
- Have finished
- Have disconnected normally

(Note that if a channel is stopped, it is not yet considered to have finished normally – and is, therefore, still current.) Inactive channels have either **saved** status or no status at all.

There can be more than one instance of the same named receiver, requester, cluster-receiver, or server-connection channel current at the same time (the requester is acting as a receiver). This occurs if several senders, at different queue managers, each initiate a session with this receiver, using the same channel name. For channels of other types, there can only be one instance current at any time.

For all channel types, however, there can be more than one set of saved status information available for a given channel name. At most one of these sets relates to a current instance of the channel, the rest relate to previously-current instances. Multiple instances arise if different transmission queue names or connection names have been used in connection with the same channel. This can happen in the following cases:

- At a sender or server:
 - If the same channel has been connected to by different requesters (servers only)
 - If the transmission queue name has been changed in the definition
 - If the connection name has been changed in the definition
- At a receiver or requester:
 - If the same channel has been connected to by different senders or servers
 - If the connection name has been changed in the definition (for requester channels initiating connection)

The number of sets that are displayed for a given channel can be limited by using the XMITQ, CONNAME, and CURRENT parameters on the command.

(generic-channel-name)

The name of the channel definition for which status information is to be displayed. A trailing asterisk (*) matches all channel definitions with the

DISPLAY CHSTATUS

specified stem followed by zero or more characters. An asterisk (*) on its own specifies all channel definitions. The channels must all be defined to the local queue manager.

XMITQ(*q-name*)

The name of the transmission queue for which status information is to be displayed, for the specified channel or channels.

This parameter can be used to limit the number of sets of status information that is displayed. If it is not specified, the display is not limited in this way.

CHLDISP

This parameter applies to z/OS only and specifies the disposition of the channels for which information is to be displayed, as used in the START and STOP CHANNEL commands, and **not** that set by QSGDISP for the channel definition. Values are:

- | | |
|----------------|---|
| ALL | This is the default value and displays requested status information for private channels.

If there is a shared queue manager environment and the command is being executed on the queue manager where it was issued, or if CURRENT is specified, this option also displays the requested status information for shared channels. |
| PRIVATE | Display requested status information for private channels. |
| SHARED | Display requested status information for shared channels. This is allowed only if there is a shared queue manager environment, and either: <ul style="list-style-type: none">• CMDSCOPE is blank or the local queue manager• CURRENT is specified |

CHLDISP displays the following values:

- | | |
|------------------|---|
| PRIVATE | The status is for a private channel. |
| SHARED | The status is for a shared channel. |
| FIXSHARED | The status is for a shared channel, tied to a specific queue manager. |

CMDSCOPE

This parameter applies to z/OS only and specifies how the command is executed when the queue manager is a member of a queue-sharing group.

- | | |
|------------------|--|
| ' ' | The command is executed on the queue manager on which it was entered. This is the default value. |
| <i>qmgr-name</i> | The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name, other than the queue manager on which it was entered, only if you are using a queue-sharing group environment and if the command server is enabled. |
| * | The command is executed on the local queue manager and is also passed to every active queue manager in the queue-sharing group. The effect of this is the same as entering the command on every queue manager in the queue-sharing group. |

Note: See Table 4 on page 204, Table 5 on page 204, and Table 6 on page 205 for the permitted combinations of CHLDISP and CMDSCOPE.

CONNNAME(*connection-name*)

The connection name for which status information is to be displayed, for the specified channel or channels.

This parameter can be used to limit the number of sets of status information that is displayed. If it is not specified, the display is not limited in this way.

The value returned for CONNNAME might not be the same as in the channel definition, and might differ between the current channel status and the saved channel status. (Using CONNNAME for limiting the number of sets of status is therefore not recommended.)

For example, if CONNNAME:

- Is blank in the channel definition or, when using TCP, is in “host name” format, the channel status value has the resolved IP address.
- Includes the port number, again when using TCP, the current channel status value includes the port number, but the saved channel status value does not.

For SAVED or SHORT status, this value could also be the queue manager name, or queue-sharing group name, of the remote system.

CURRENT

This is the default, and indicates that current status information as held by the channel initiator for current channels only is to be displayed.

Both common and current-only status information can be requested for current channels.

Short status information is not displayed if this parameter is specified.

SAVED

Specify this to display saved status information for both current and inactive channels.

Only common status information can be displayed. Short and current-only status information is not displayed for current channels if this parameter is specified. On z/OS, the STATUS item is not displayed.

SHORT

This indicates that short status information and the STATUS item for current channels only is to be displayed.

Other common status and current-only status information is not displayed for current channels if this parameter is specified.

ALL

Specify this to display all the status information for each relevant instance.

If SAVED is specified, this causes only common status information to be displayed, not current-only status information.

If this parameter is specified, any parameters requesting specific status information that are also specified have no effect; all the information is displayed.

The following information is always returned, for each set of status information:

- The channel name
- The transmission queue name (for sender and server channels)

DISPLAY CHSTATUS

- The connection name
- The remote queue-manager, or queue-sharing group, name (only for current status)
- The type of status information returned (CURRENT, SAVED, or on z/OS only, SHORT)
- STATUS (except SAVED on z/OS)
- On z/OS, CHLDISP

If no parameters requesting specific status information are specified (and the ALL parameter is not specified), no further information is returned.

If status information is requested that is not relevant for the particular channel type, this is not an error.

Common status

The following information applies to all sets of channel status, whether or not the set is current. The information applies to all channel types except server-connection.

CURLUWID

The logical unit of work identifier associated with the current batch, for a sending or a receiving channel.

For a sending channel, when the channel is in doubt it is the LUWID of the in-doubt batch.

For a saved channel instance, this parameter has meaningful information only if the channel instance is in doubt. However, the parameter value is still returned when requested, even if the channel instance is not in doubt.

It is updated with the LUWID of the next batch when this is known.

CURMSG

For a sending channel, this is the number of messages that have been sent in the current batch. It is incremented as each message is sent, and when the channel becomes in doubt it is the number of messages that are in doubt.

For a saved channel instance, this parameter has meaningful information only if the channel instance is in doubt. However, the parameter value is still returned when requested, even if the channel instance is not in doubt.

For a receiving channel, it is the number of messages that have been received in the current batch. It is incremented as each message is received.

The value is reset to zero, for both sending and receiving channels, when the batch is committed.

CURSEQNO

For a sending channel, this is the message sequence number of the last message sent. It is updated as each message is sent, and when the channel becomes in doubt it is the message sequence number of the last message in the in-doubt batch.

For a saved channel instance, this parameter has meaningful information only if the channel instance is in doubt. However, the parameter value is still returned when requested, even if the channel instance is not in doubt.

For a receiving channel, it is the message sequence number of the last message that was received. It is updated as each message is received.

INDOUBT

Whether the channel is currently in doubt.

This is only YES while the sending Message Channel Agent is waiting for an acknowledgment that a batch of messages that it has sent has been successfully received. It is NO at all other times, including the period during which messages are being sent, but before an acknowledgment has been requested.

For a receiving channel, the value is always NO.

LSTLUWID

The logical unit of work identifier associated with the last committed batch of messages transferred.

LSTSEQNO

Message sequence number of the last message in the last committed batch. This number is not incremented by nonpersistent messages using channels with a NPMSPEED of FAST.

STATUS

Current status of the channel. This is one of the following:

STARTING

A request has been made to start the channel but the channel has not yet begun processing. A channel is in this state if it is waiting to become active.

BINDING

Channel is performing channel negotiation and is not yet ready to transfer messages.

INITIALIZING

The channel initiator is attempting to start a channel. This is valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS. On z/OS, this is displayed as INITIALIZI.

RUNNING

The channel is either transferring messages at this moment, or is waiting for messages to arrive on the transmission queue so that they can be transferred.

STOPPING

Channel is stopping or a close request has been received.

RETRYING

A previous attempt to establish a connection has failed. The MCA will reattempt connection after the specified time interval.

PAUSED

The channel is waiting for the message-retry interval to complete before retrying an MQPUT operation. This is not valid on z/OS.

STOPPED

This state can be caused by one of the following:

- Channel manually stopped
 - A user has entered a stop channel command against this channel.
- Retry limit reached

DISPLAY CHSTATUS

The MCA has reached the limit of retry attempts at establishing a connection. No further attempt will be made to establish a connection automatically.

A channel in this state can be restarted only by issuing the START CHANNEL command, or starting the MCA program in an operating-system dependent manner.

REQUESTING

A local requester channel is requesting services from a remote MCA.

On z/OS, STATUS is not displayed if saved data is requested.

Note: For an inactive channel, CURMSGs, CURSEQNO, and CURLUWID have meaningful information only if the channel is INDOUBT. However they are still displayed and returned if requested.

Current-only status

The following information applies only to current channel instances. The information applies to all channel types, except where stated.

BATCHES

Number of completed batches during this session (since the channel was started).

BATCHSZ

The batch size being used for this session (valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS).

This parameter does not apply to server-connection channels, and no values are returned; if specified on the command, this is ignored.

BUFSRCVD

Number of transmission buffers received. This includes transmissions to receive control information only.

BUFSSENT

Number of transmission buffers sent. This includes transmissions to send control information only.

BYTSRCVD

Number of bytes received during this session (since the channel was started). This includes control information received by the message channel agent.

BYTSSENT

Number of bytes sent during this session (since the channel was started). This includes control information sent by the message channel agent.

CHSTADA

Date when this channel was started (in the form yyyy-mm-dd).

CHSTATI

Time when this channel was started (in the form hh.mm.ss).

HBINT

The heartbeat interval being used for this session.

JOBNAME

Name of job currently serving the channel.

DISPLAY CHSTATUS

- On Compaq OpenVMS, this is the process identifier, displayed in hexadecimal.
- On OS/2 Warp, OS/400, UNIX systems, and Windows, this is the concatenation of the process identifier and the thread identifier of the MCA program, displayed in hexadecimal.
- On Compaq NSK, this is the CPU ID and PID, displayed in hexadecimal.

This information is not available on z/OS. The parameter is ignored if specified.

LOCLADDR

Local communications address for the channel. The value returned depends on the TRPRYPE of the channel (currently only TCP/IP is supported).

LONGRTS

Number of long retry wait start attempts left. This applies only to sender or server channels.

LSTMSGDA

Date when the last message was sent or MQI call was handled, see LSTMSGTI.

LSTMSGTI

Time when the last message was sent or MQI call was handled.

For a sender or server, this is the time the last message (the last part of it if it was split) was sent. For a requester or receiver, it is the time the last message was put to its target queue. For a server-connection channel, it is the time when the last MQI call completed.

MAXMSGL

The maximum message length being used for this session (valid only on z/OS).

MCASTAT

Whether the Message Channel Agent is currently running. This is either "running" or "not running".

Note that it is possible for a channel to be in stopped state, but for the program still to be running.

This information is not available on z/OS. The parameter is ignored if specified.

MSGS

Number of messages sent or received (or, for server-connection channels, the number of MQI calls handled) during this session (since the channel was started).

NPMSPEED

The nonpersistent message handling technique being used for this session.

RQMNAME

The queue manager name, or queue-sharing group name, of the remote system. This parameter does not apply to server-connection channels, where no values are returned.

SHORTRTS

Number of short retry wait start attempts left. This applies only to sender or server channels.

DISPLAY CHSTATUS

SSLPEER

Distinguished Name of the peer queue manager or client at the other end of the channel.

The maximum length is 256 characters. This limit might mean that exceptionally long Distinguished Names are truncated.

STOPREQ

Whether a user stop request is outstanding. This is either YES or NO.

Short status

The following information applies only to current channel instances.

QMNAME

The name of the queue manager that owns the channel instance.

Usage notes

The status information that is returned for various combinations of CHLDISP, CMDSCOPE, and status type are summarized in Table 4, Table 5, and Table 6 on page 205.

Table 4. CHLDISP and CMDSCOPE for DISPLAY CHSTATUS CURRENT

CHLDISP	CMDSCOPE() or CMDSCOPE (local-qmgr)	CMDSCOPE (qmgr-name)	CMDSCOPE(*)
PRIVATE	Common and current-only status for current private channels on the local queue manager	Common and current-only status for current private channels on the named queue manager	Common and current-only status for current private channels on all queue managers
SHARED	Common and current-only status for current shared channels on the local queue manager	Common and current-only status for current shared channels on the named queue manager	Common and current-only status for current shared channels on all queue managers
ALL	Common and current-only status for current private and shared channels on the local queue manager	Common and current-only status for current private and shared channels on the named queue manager	Common and current-only status for current private and shared channels on all active queue managers

Table 5. CHLDISP and CMDSCOPE for DISPLAY CHSTATUS SHORT

CHLDISP	CMDSCOPE() or CMDSCOPE (local-qmgr)	CMDSCOPE (qmgr-name)	CMDSCOPE(*)
PRIVATE	STATUS and short status for current private channels on the local queue manager	STATUS and short status for current private channels on the named queue manager	STATUS and short status for current private channels on all active queue managers
SHARED	STATUS and short status for current shared channels on all active queue managers in the queue-sharing group	Not permitted	Not permitted
ALL	STATUS and short status for current private channels on the local queue manager and current shared channels in the queue-sharing group(1)	STATUS and short status for current private channels on the named queue manager	STATUS and short status for current private, and shared, channels on all active queue managers in the queue-sharing group(1)

Note:

1. In this case you get two separate sets of responses to the command on the queue manager where it was entered; one for PRIVATE and one for SHARED.

Table 6. CHLDISP and CMDSCOPE for DISPLAY CHSTATUS SAVED

CHLDISP	CMDSCOPE() or CMDSCOPE (local-qmgr)	CMDSCOPE (qmgr-name)	CMDSCOPE(*)
PRIVATE	Common status for saved private channels on the local queue manager	Common status for saved private channels on the named queue manager	Common status for saved private channels on all active queue managers
SHARED	Common status for saved shared channels on all active queue managers in the queue-sharing group	Not permitted	Not permitted
ALL	Common status for saved private channels on the local queue manager and saved shared channels in the queue-sharing group	Common status for saved private channels on the named queue manager	Common status for saved private, and shared, channels on all active queue managers in the queue-sharing group

DISPLAY CLUSQMGR

DISPLAY CLUSQMGR

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
✓	✓	✓	✓	✓	✓	2CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Note: This command is **not** available when using the reduced function form of WebSphere MQ for z/OS supplied with WebSphere Application Server.

Use DISPLAY CLUSQMGR to display information about cluster channels for queue managers in a cluster.

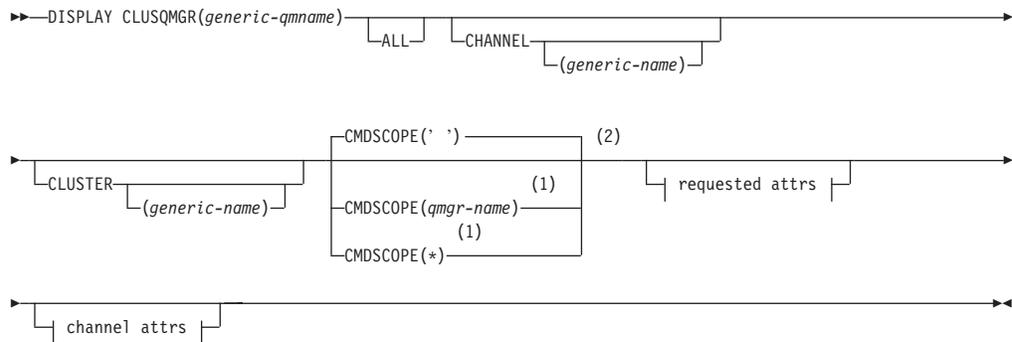
Unlike the DISPLAY CHANNEL command, this command includes information about cluster channels that are auto-defined, and the status of cluster channels.

Notes:

1. On UNIX systems, the command is valid only on AIX, HP-UX, Linux, and Solaris.
2. On z/OS, the command fails if the channel initiator has not been started.

Synonym: DIS CLUSQMGR

DISPLAY CLUSQMGR



Requested attrs:



Channel attrs:

ALTDATA
ALTTIME
BATCHHB
BATCHINT
BATCHSZ
CONNNAME
CONVERT
DESCR
DISCINT
HBINT
(2)
KAINIT
LOCLADDR
LONGRTY
LONGTMR
MAXMSGL
MCANAME
MCTYPE
MCAUSER
MODENAME
(3)
MRDATA
(3)
MREXIT
(3)
MRRTY
(3)
MRTMR
MSGDATA
MSGEXIT
NETPRTY
NPMSPEED
(3)
PASSWORD
PUTAUT
RCVDATA
RCVEXIT
SCYDATA
SCYEXIT
SENDDATA
SENDEXIT
SEQWRAP
SHORTRTY
SHORTTMR
(4)
SSLCAUTH
(4)
SSLCIPH
(4)
SSLPEER
TPNAME
TRPTYPE
(3)
USERID

Notes:

- 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- 2 Valid only on z/OS.
- 3 Not valid on z/OS.
- 4 Valid only on AIX, HP-UX, Linux, OS/400, Solaris, Windows, and z/OS.

DISPLAY CLUSQMGR

Parameter descriptions

(generic-qmgr-name)

The name of the cluster queue manager for which information is to be displayed.

A trailing asterisk (*) matches all cluster queue managers with the specified stem followed by zero or more characters. An asterisk (*) on its own specifies all cluster queue managers.

ALL Specify this to display all the parameters. If this parameter is specified, any parameters that are also requested specifically have no effect; all parameters are still displayed. This is the default if you do not specify a generic name and do not request any specific parameters.

CHANNEL*(generic-name)*

This is optional, and limits the information displayed to cluster channels with the specified channel name. The value can be a generic name.

CLUSTER*(generic-name)*

This is optional, and limits the information displayed to cluster queue managers with the specified cluster name. The value can be a generic name.

CMDSCOPE

This parameter applies to z/OS only and specifies how the command is executed when the queue manager is a member of a queue-sharing group.

'' The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

* The command is executed on the local queue manager and is also passed to every active queue manager in the queue-sharing group. The effect of this is the same as entering the command on every queue manager in the queue-sharing group.

Requested parameters

Specify one or more parameters that define the data to be displayed. The parameters can be specified in any order, but do not specify the same parameter more than once.

Some parameters are relevant only for cluster channels of a particular type or types. Attributes that are not relevant for a particular type of channel cause no output, and do not cause an error.

CLUSDATE

The date on which the definition became available to the local queue manager, in the form yyyy-mm-dd.

CLUSTIME

The time at which the definition became available to the local queue manager, in the form hh.mm.ss.

DEFTYPE

How the cluster channel was defined:

CLUSSDR

As a cluster-sender channel from an explicit definition.

CLUSSDRA

As a cluster-sender channel by auto-definition alone.

CLUSSDRB

As a cluster-sender channel by auto-definition and an explicit definition.

CLUSRCVR

As a cluster-receiver channel from an explicit definition.

QMID

The internally generated unique name of the cluster queue manager.

QMTYPE

The function of the cluster queue manager in the cluster:

REPOS

Provides a full repository service.

NORMAL

Does not provide a full repository service.

STATUS

The current status of the channel for this cluster queue manager. This is one of the following:

STARTING

A request has been made to start the channel but the channel has not yet begun processing. A channel is in this state if it is waiting to become active.

BINDING

The channel is performing channel negotiation and is not yet ready to transfer messages.

INACTIVE

The channel is not active.

INITIALIZING

The channel initiator is attempting to start a channel. On z/OS, this is displayed as INITIALIZI.

RUNNING

The channel is either transferring messages at this moment, or is waiting for messages to arrive on the transmission queue so that they can be transferred.

STOPPING

The channel is stopping, or a close request has been received.

RETRYING

A previous attempt to establish a connection has failed. The MCA will reattempt connection after the specified time interval.

PAUSED

The channel is waiting for the message-retry interval to complete before retrying an **MQPUT** operation.

STOPPED

This state can be caused by one of the following:

- Channel manually stopped.

DISPLAY CLUSQMGR

A user has entered a stop channel command against this channel.

- Retry limit reached.

The MCA has reached the limit of retry attempts at establishing a connection. No further attempt is made to establish a connection automatically.

A channel in this state can be restarted only by issuing the START CHANNEL command, or starting the MCA program in an operating-system dependent manner.

REQUESTING

A local requester channel is requesting services from a remote MCA.

SUSPEND

Whether this cluster queue manager is suspended from the cluster or not (as a result of the SUSPEND QMGR command). This is either YES or NO.

Channel parameters

ALTDATE	The date on which the definition or information was last altered, in the form yyyy-mm-dd
ALTTIME	The time at which the definition or information was last altered, in the form hh.mm.ss
BATCHHB	The batch heartbeating value being used.
BATCHINT	Minimum batch duration
BATCHSZ	Batch size
CONNNAME	Connection name
CONVERT	Whether the sender should convert application message data
DESCR	Description
DISCINT	Disconnection interval
HBINT	Heartbeat interval
KAINT	KeepAlive timing for the channel (valid on z/OS only).
LOCLADDR	Local communications address for the channel.
LONGRTY	Long retry count
LONGTMR	Long retry timer
MAXMSGL	Maximum message length for channel
MCANAME	Message channel agent name
MCTYPE	Whether the message channel agent runs as a separate process or a separate thread
MCAUSER	Message channel agent user identifier
MODENAME	LU 6.2 mode name
MRDATA	Channel message-retry exit user data
MREXIT	Channel message-retry exit name
MRRTY	Channel message-retry exit retry count

MRTMR	Channel message-retry exit retry time
MSGDATA	Channel message exit user data
MSGEXIT	Channel message exit names
NETPRTY	The priority for the network connection
NPMSPEED	Nonpersistent message speed
PASSWORD	Password for initiating LU 6.2 session (if nonblank, this is displayed as asterisks)
PUTAUT	Put authority
RCVDATA	Channel receive exit user data
RCVEXIT	Channel receive exit names
SCYDATA	Channel security exit user data
SCYEXIT	Channel security exit name
SENDDATA	Channel send exit user data
SENDEXIT	Channel send exit names
SEQWRAP	Sequence number wrap value
SHORTRTY	Short retry count
SHORTTMR	Short retry timer
SSLCAUTH	Whether SSL client authentication is required.
SSLCIPH	Cipher specification for the SSL connection.
SSLPEER	Filter for the Distinguished Name from the certificate of the peer queue manager or client at the other end of the channel.
TRPTYPE	Transport type
TPNAME	LU 6.2 transaction program name
USERID	User identifier for initiating LU 6.2 session

DISPLAY CMDSERV

DISPLAY CMDSERV

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
						12CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use DISPLAY CMDSERV to display the status of the command server.

Synonym: DIS CS

DISPLAY CMDSERV

►►—DISPLAY CMDSERV—◄◄

Usage notes

1. The command server takes messages from the system command input queue, and commands using CMDSCOPE, and processes them. DISPLAY CMDSERV displays the status of the command server.
2. The response to this command is a message showing the current status of the command server, which is one of the following:
 - ENABLED** Available to process commands
 - DISABLED** Not available to process commands
 - STARTING** START CMDSERV in progress
 - STOPPING** STOP CMDSERV in progress
 - STOPPED** STOP CMDSERV completed
 - RUNNING** Available to process commands, currently processing a message
 - WAITING** Available to process commands, currently waiting for a message

DISPLAY DQM

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
						2CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

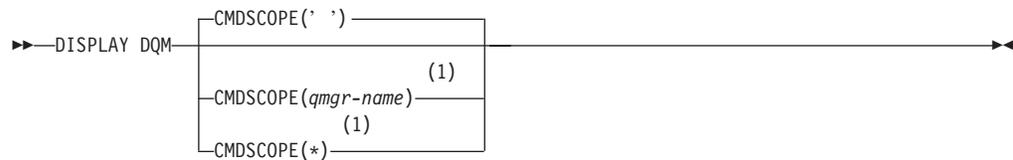
Use DISPLAY DQM to display information about the channel initiator.

Notes:

1. This is valid only for channels used for distributed queuing without CICS. If you are using CICS for distributed queuing, see the *WebSphere MQ Intercommunication* manual.
2. The command server must be running.

Synonym: DIS DQM

DISPLAY DQM



Notes:

- 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.

Parameter descriptions

CMDSCOPE

This parameter specifies how the command is executed when the queue manager is a member of a queue-sharing group.

' ' The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

* The command is executed on the local queue manager and is also passed to every active queue manager in the queue-sharing group. The effect of this is the same as entering the command on every queue manager in the queue-sharing group.

DISPLAY DQM

Usage notes

1. The response to this command is a series of messages showing the current status of the channel initiator. This includes the following:
 - Whether the channel initiator is running or not
 - Which listeners are started, and information about them.
 - How many dispatchers are started, and how many were requested
 - How many adapter subtasks are started, and how many were requested
 - How many SSL subtasks are started, and how many were requested
 - The TCP system name
 - How many channel connections are current, and whether they are active, stopped, or retrying
 - The maximum number of current connections

DISPLAY GROUP

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
						2CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use DISPLAY GROUP to display information about the queue-sharing group to which the queue manager is connected. This is valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.

Synonym: DIS GROUP

DISPLAY GROUP

►►—DISPLAY GROUP—◄◄

Usage notes

1. The response to the DISPLAY GROUP command is a series of messages containing information about the queue-sharing group to which the queue manager is connected.

The following information is returned:

- The name of the queue-sharing group
- Whether all the queue managers that belong to the group are active or inactive
- The names of all the queue managers that belong to the group

DISPLAY LOG

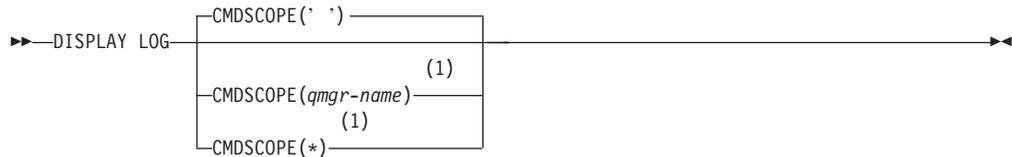
DISPLAY LOG

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
						12CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use DISPLAY LOG to display archive log information.

Synonym: DIS LOG



Notes:

- 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.

Parameter descriptions

CMDSCOPE

This parameter specifies how the command is executed when the queue manager is a member of a queue-sharing group.

CMDSCOPE cannot be used for commands issued from the first initialization input data set CSQINP1.

' ' The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

* The command is executed on the local queue manager and is also passed to every active queue manager in the queue-sharing group. The effect of this is the same as entering the command on every queue manager in the queue-sharing group.

Usage notes

1. DISPLAY LOG returns a report that shows the initial log parameters, and the current values as changed by the SET LOG command:
 - Length of time that an allowed archive read tape unit remains unused before it is deallocated (DEALLCT).

DISPLAY LOG

- Size of input buffer storage for active and archive log data sets (INBUFF).
- Size of output buffer storage for active and archive log data sets (OUTBUFF).
- Maximum number of dedicated tape units that can be set to read archive log tape volumes (MAXRTU).
- Maximum number of archive log volumes that can be recorded (MAXARCH).
- Whether archiving is on or off (OFFLOAD).
- Whether single or dual active logging is being used (TWOACTV).
- Whether single or dual archive logging is being used (TWOARCH).
- Whether single or dual BSDS is being used (TWOBSDS).
- Number of output buffers to be filled before they are written to the active log data sets (WRTHRSH).

It also returns a report about the status of the logs.

2. This command is issued internally by WebSphere MQ at the end of queue manager startup.

DISPLAY MAXSMGS

DISPLAY MAXSMGS

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
						2CR

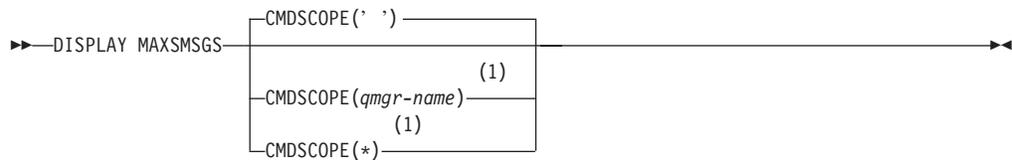
For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use DISPLAY MAXSMGS to see the maximum number of messages that a task can get or put within a single unit of recovery.

Note: This command is valid only on z/OS and is retained for compatibility with earlier releases, although it can no longer be issued from the CSQINP1 initialization data set. You should use the MAXUMSGS parameter of the DISPLAY QMGR command instead.

Synonym: DIS MAXSM

DISPLAY MAXSMGS



Notes:

- Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.

Parameter descriptions

CMDSCOPE

This parameter specifies how the command is executed when the queue manager is a member of a queue-sharing group.

CMDSCOPE cannot be used for commands issued from the first initialization input data set CSQINP1.

' ' The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

* The command is executed on the local queue manager and is also passed to every active queue manager in the queue-sharing group.

DISPLAY MAXSMGS

The effect of this is the same as entering the command on every queue manager in the queue-sharing group.

DISPLAY NAMELIST

DISPLAY NAMELIST

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
✓	✓	✓	✓	✓	✓	2CR

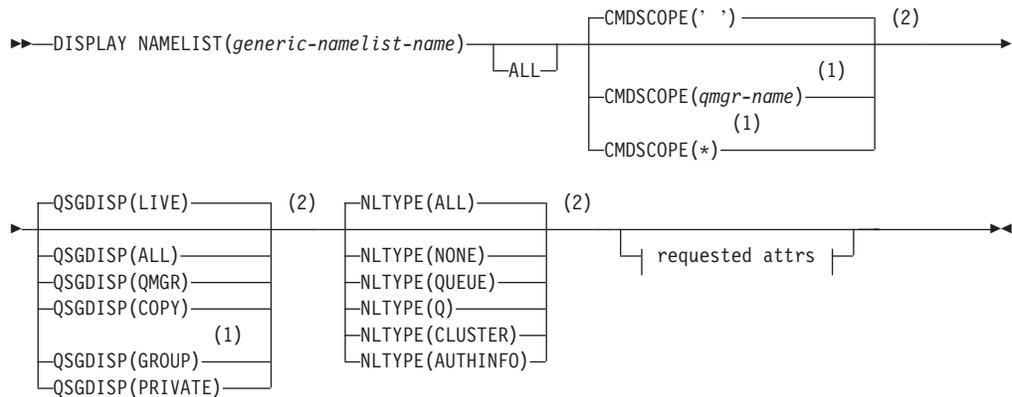
For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use DISPLAY NAMELIST to display the names in a namelist.

Note: On UNIX systems, the command is valid only on AIX, HP-UX, Linux and Solaris.

Synonym: DIS NL

DISPLAY NAMELIST



Requested attrs:



Notes:

- Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- Valid only on z/OS.

Parameter descriptions

You must specify the name of the namelist definition you want to display. This can be a specific namelist name or a generic namelist name. By using a generic namelist name, you can display either:

- All namelist definitions

- One or more namelists that match the specified name

(generic-namelist-name)

The name of the namelist definition to be displayed (see “Rules for naming WebSphere MQ objects” on page 4). A trailing asterisk (*) matches all namelists with the specified stem followed by zero or more characters. An asterisk (*) on its own specifies all namelists. The namelists must all be defined to the local queue manager.

ALL Specify this to display all the parameters. If this parameter is specified, any parameters that are requested specifically have no effect; all the parameters are displayed.

This is the default if you do not specify a generic name, and do not request any specific parameters.

CMDSCOPE

This parameter specifies how the command is executed when the queue manager is a member of a queue-sharing group.

CMDSCOPE cannot be used for commands issued from the first initialization input data set CSQINP1.

'' The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

***** The command is executed on the local queue manager and is also passed to every active queue manager in the queue-sharing group. The effect of this is the same as entering the command on every queue manager in the queue-sharing group.

QSGDISP

Specifies the disposition of the objects for which information is to be displayed. Values are:

LIVE This is the default value and displays information for objects defined with QSGDISP(QMGR) or QSGDISP(COPY).

ALL Displays information for objects defined with QSGDISP(QMGR) or QSGDISP(COPY).

If there is a shared queue manager environment, and the command is being executed on the queue manager where it was issued, this option also displays information for objects defined with QSGDISP(GROUP).

If QSGDISP(ALL) is specified in a shared queue manager environment, the command might give duplicated names (with different dispositions).

In a shared queue manager environment, use
 DISPLAY NAMELIST(name) CMDSCOPE(*) QSGDISP(ALL)

DISPLAY NAMELIST

to list ALL objects matching
name

in the queue-sharing group without duplicating those in
the shared repository.

COPY	Display information only for objects defined with QSGDISP(COPY).
GROUP	Display information only for objects defined with QSGDISP(GROUP). This is allowed only if there is a shared queue manager environment.
PRIVATE	Display information for objects defined with QSGDISP(QMGR) or QSGDISP(COPY). Note that QSGDISP(PRIVATE) displays the same information as QSGDISP(LIVE).
QMGR	Display information only for objects defined with QSGDISP(QMGR).

QSGDISP displays one of the following values if it is specified, or if there is a shared queue manager environment:

QMGR	The object was defined with QSGDISP(QMGR).
GROUP	The object was defined with QSGDISP(GROUP).
COPY	The object was defined with QSGDISP(COPY).

NLTYPE

Indicates the type of namelist to be displayed.

This parameter is valid only on z/OS.

ALL

Displays namelists of all types. This is the default.

NONE

Displays namelists of type NONE.

QUEUE or Q

Displays namelists that hold lists of queue names.

CLUSTER

Displays namelists that are associated with clustering.

AUTHINFO

Displays namelists that contain lists of authentication information object names.

Requested parameters

Specify one or more parameters that define the data to be displayed. The parameters can be specified in any order, but do not specify the same parameter more than once.

The default, if no parameters are specified (and the ALL parameter is not specified) is that the object names and their NLTYPEs are displayed. :

ALTDATE

The date on which the definition was last altered, in the form yyyy-mm-dd

ALTTIME

The time at which the definition was last altered, in the form hh.mm.ss

| **DESCR**
| Description
| **NAMCOUNT**
| Number of names in the list
| **NAMES**
| List of names

See "DEFINE NAMELIST" on page 118 for more information about the individual parameters.

DISPLAY PROCESS

DISPLAY PROCESS

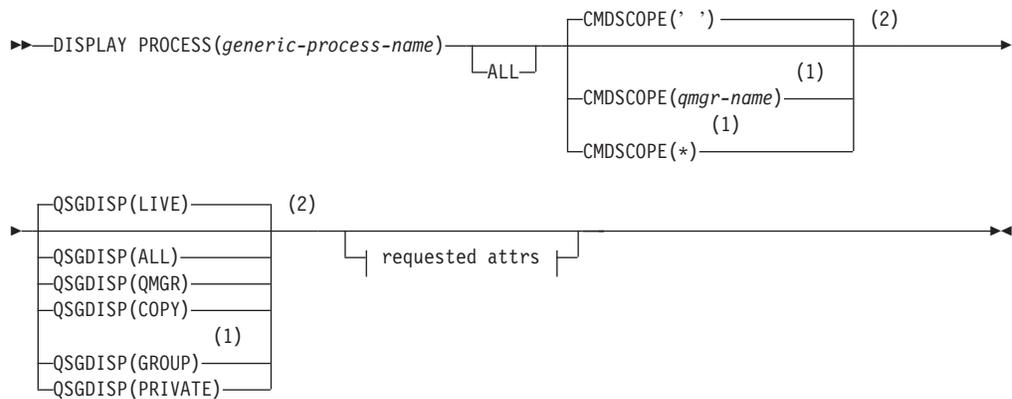
Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
✓	✓	✓	✓	✓	✓	2CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use DISPLAY PROCESS to display the attributes of one or more WebSphere MQ processes.

Synonym: DIS PRO

DISPLAY PROCESS



Requested attrs:



Notes:

- Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- Valid only on z/OS.
- Valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.

Parameter descriptions

You must specify the name of the process you want to display. This can be a specific process name or a generic process name. By using a generic process name, you can display either:

- All process definitions
- One or more processes that match the specified name

(generic-process-name)

The name of the process definition to be displayed (see “Rules for naming WebSphere MQ objects” on page 4). A trailing asterisk (*) matches all processes with the specified stem followed by zero or more characters. An asterisk (*) on its own specifies all processes. The names must all be defined to the local queue manager.

ALL Specify this to display all the parameters. If this parameter is specified, any parameters that are requested specifically have no effect; all parameters are still displayed.

On AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS, this is the default if you do not specify a generic name and do not request any specific parameters.

On other platforms, if no parameters are specified (and the ALL parameter is not specified), the default is that the process names are returned.

CMDSCOPE

This parameter applies to z/OS only and specifies how the command is executed when the queue manager is a member of a queue-sharing group.

CMDSCOPE must be blank, or the local queue manager, if QSGDISP is set to GROUP.

'' The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

* The command is executed on the local queue manager and is also passed to every active queue manager in the queue-sharing group. The effect of this is the same as entering the command on every queue manager in the queue-sharing group.

QSGDISP

Specifies the disposition of the objects for which information is to be displayed. Values are:

LIVE This is the default value and displays information for objects defined with QSGDISP(QMGR) or QSGDISP(COPY).

ALL Displays information for objects defined with QSGDISP(QMGR) or QSGDISP(COPY).

DISPLAY PROCESS

If there is a shared queue manager environment, and the command is being executed on the queue manager where it was issued, this option also displays information for objects defined with QSGDISP(GROUP).

If QSGDISP(LIVE) is specified or defaulted, or if QSGDISP(ALL) is specified in a shared queue manager environment, the command might give duplicated names (with different dispositions).

COPY	Display information only for objects defined with QSGDISP(COPY).
GROUP	Display information only for objects defined with QSGDISP(GROUP). This is allowed only if there is a shared queue manager environment.
PRIVATE	Display information for objects defined with QSGDISP(QMGR) or QSGDISP(COPY). Note that QSGDISP(PRIVATE) displays the same information as QSGDISP(LIVE).
QMGR	Display information only for objects defined with QSGDISP(QMGR).

QSGDISP displays one of the following values if it is specified, or if there is a shared queue manager environment:

QMGR	The object was defined with QSGDISP(QMGR).
GROUP	The object was defined with QSGDISP(GROUP).
COPY	The object was defined with QSGDISP(COPY).

Requested parameters

Specify one or more parameters that define the data to be displayed. The parameters can be specified in any order, but do not specify the same parameter more than once.

The default, if no parameters are specified (and the ALL parameter is not specified) is that the object names are displayed.

ALTDATE	The date on which the definition was last altered, in the form yyyy-mm-dd
ALTTIME	The time at which the definition was last altered, in the form hh.mm.ss
APPLICID	Application identifier
APPLTYPE	Application type
DESCR	Description
ENVRDATA	Environment data
USERDATA	User data

See "DEFINE PROCESS" on page 122 for more information about individual parameters.

DISPLAY QMGR

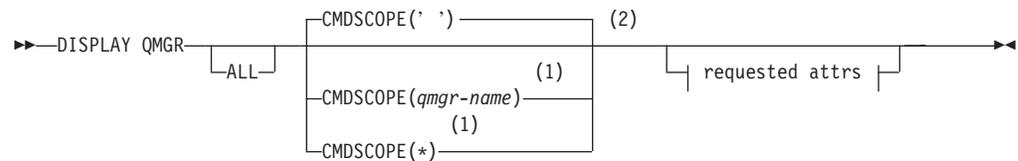
Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
✓	✓	✓	✓	✓	✓	2CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use DISPLAY QMGR to display the queue manager parameters for this queue manager.

Synonym: DIS QMGR

DISPLAY QMGR.



Requested attrs:

DISPLAY QMGR

	(3)
ALTDAT	(3)
ALTTIME	
AUTHOREV	
CCSID	
	(4)
CHAD	(4)
CHADEV	(3)
CHADEXIT	(3)
CLWLEXIT	(3)
CLWLDATA	(3)
CLWLLEN	
CMDLEVEL	
COMMANDQ	(2)
CONFIGEV	(2)
CPILEVEL	
DEADQ	
DEFXMITQ	
DESCR	(4)
DISTL	(2)
EXPRYINT	(2)
IGQ	(2)
IGQAUT	(2)
IGQUSER	
INHIBTEV	
LOCALEV	
MAXHANDS	
MAXMSGL	
MAXPRTY	
MAXUMSGS	
PERFMEV	
PLATFORM	(3)
QMID	
QMNAME	(2)
QSGNAME	
REMOTEEV	(3)
REPOS	(3)
REPOSNL	(5)
SSLCRLNL	(6)
SSLCRYP	(5)
SSLKEYR	(2)
SSLTASKS	
STRSTPEV	
SYNCPT	
TRIGINT	

Notes:

- 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- 2 Valid only on z/OS.
- 3 Valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.
- 4 Valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, and Windows.
- 5 Valid only on AIX, HP-UX, Linux, OS/400, Solaris, Windows, and z/OS.
- 6 Valid only on AIX, HP-UX, Linux, and Solaris.

Parameter descriptions

ALL Specify this to display all the parameters. If this parameter is specified, any parameters that are requested specifically have no effect; all parameters are still displayed.

On AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, and Windows, this is the default if you do not request any specific parameters.

CMDSCOPE

This parameter applies to z/OS only and specifies how the command is executed when the queue manager is a member of a queue-sharing group.

CMDSCOPE must be blank, or the local queue manager, if QSGDISP is set to GROUP or SHARED.

' ' The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

* The command is executed on the local queue manager and is also passed to every active queue manager in the queue-sharing group. The effect of this is the same as entering the command on every queue manager in the queue-sharing group.

Requested parameters

Specify one or more parameters that define the data to be displayed. The parameters can be specified in any order, but do not specify the same parameter more than once.

Note: If no parameters are specified (and the ALL parameter is not specified or defaulted), the queue manager name is returned.

You can request the following information for the queue manager:

DISPLAY QMGR

ALTDATE

The date on which the definition was last altered, in the form yyyy-mm-dd.

This parameter is valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.

ALTTIME

The time at which the definition was last altered, in the form hh.mm.ss.

This parameter is valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.

AUTHOREV

Whether authorization events are generated.

CCSID

Coded character set identifier. This applies to all character string fields defined by the application programming interface (API), including the names of objects, and the creation date and time of each queue. It does not apply to application data carried as the text of messages.

CHAD

Whether auto-definition of receiver and server-connection channels is enabled. This parameter is valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, and Windows.

CHADEV

Whether auto-definition events are enabled. This parameter is valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, and Windows.

CHADEXIT

The name of the channel auto-definition exit. This parameter is valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows and z/OS.

CLWLEXIT

The name of the cluster workload exit.

This parameter is valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.

CLWLDATA

The data passed to the cluster workload exit.

This parameter is valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.

CLWLLEN

The maximum number of bytes of message data that is passed to the cluster workload exit.

This parameter is valid only on AIX, Compaq OpenVMS, HP-UX, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.

CMDLEVEL

Command level. This indicates the function level of the queue manager.

COMMANDQ

The name of the system-command input queue. Suitably authorized applications can put commands on this queue.

CONFIGEV

Whether configuration events are generated.

CPILEVEL

Reserved, this value has no significance.

DEADQ

The name of the queue to which messages are sent if they cannot be routed to their correct destination (the dead-letter queue or undelivered-message queue). The default is blanks.

For example, messages are put on this queue when:

- A message arrives at a queue manager, destined for a queue that is not yet defined on that queue manager
- A message arrives at a queue manager, but the queue for which it is destined cannot receive it because, possibly:
 - The queue is full
 - The queue is inhibited for puts
 - The sending node does not have authority to put the message on the queue
- An exception message needs to be generated, but the queue named is not known to that queue manager

Note: Messages that have passed their expiry time are *not* transferred to this queue when they are discarded.

If the dead-letter queue is not defined, or full, or unusable for some other reason, a message that would have been transferred to it by a message channel agent is retained instead on the transmission queue.

If a dead-letter queue or undelivered-message queue is not specified, all blanks are returned for this parameter.

DEFXMITQ

Default transmission queue name. This is the transmission queue on which messages, destined for a remote queue manager, are put if there is no other suitable transmission queue defined.

DESCR

Description.

DISTL

| Whether distribution lists are supported by the queue manager. This is
 | valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp,
 | OS/400, Solaris, and Windows.

EXPRYINT

| On z/OS only, the approximate interval between scans for expired
 | messages.

IGQ On z/OS only, whether intra-group queuing is to be used.

IGQAUT

On z/OS only, displays the type of authority checking used by the intra-group queuing agent.

IGQUSER

On z/OS only, displays the user ID used by the intra-group queuing agent.

INHIBTEV

Whether inhibit events are generated.

LOCALEV

Whether local error events are generated.

DISPLAY QMGR

MAXHANDS

The maximum number of open handles that any one task can have at any one time.

Note: On MQSeries for Compaq NonStop Kernel, this parameter is ignored.

MAXMSGL

The maximum message length that can be handled by the queue manager. Individual queues or channels might have a smaller maximum than this.

MAXPRTY

The maximum priority. This is 9.

MAXUMSGS

Maximum number of uncommitted messages within one syncpoint.

Note: On MQSeries for Compaq NonStop Kernel, this parameter is ignored.

PERFMEV

Whether performance-related events are generated.

PLATFORM

The architecture of the platform on which the queue manager is running. This is MVS (for z/OS platforms), OPENVMS, NSK, OS2, OS400, UNIX, or WINDOWSNT.

QMID

The internally generated unique name of the queue manager.

This parameter is valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.

QMNAME

The name of the local queue manager. See "Rules for naming WebSphere MQ objects" on page 4.

QSGNAME

The name of the queue-sharing group to which the queue manager belongs, or blank if the queue manager is not a member of a queue-sharing group. You can use queue-sharing groups only on WebSphere MQ for z/OS.

REMOTEEV

Whether remote error events are generated.

REPOS

The name of a cluster for which this queue manager is to provide a repository manager service.

This parameter is valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.

REPOSNL

The name of a list of clusters for which this queue manager is to provide a repository manager service.

This parameter is valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.

| **SSLCRLNL**(*nlname*)
 | Indicates the namelist of AUTHINFO objects being used for the queue
 | manager for CRL checking.

| **SSLCRYP**(*string*)
 | Indicates the name of the parameter string being used to configure the
 | cryptographic hardware present on the system. Note that the PKCS #11
 | password appears as xxxxxx.

| **SSLKEYR**(*string*)
 | Indicates the name of the Secure Sockets Layer key repository.

| **SSLTASKS**(*integer*)
 | On z/OS only, indicates the number of server subtasks to use for
 | processing SSL calls.

| **STRSTPEV**
 | Whether start and stop events are generated.

| **SYNCPT**
 | Whether syncpoint support is available with the queue manager. On
 | Compaq OpenVMS, Linux, OS/2 Warp, OS/400, UNIX systems, Windows,
 | and z/OS, it is always available.

| **TRIGINT**
 | The trigger interval.

DISPLAY QSTATUS

DISPLAY QSTATUS

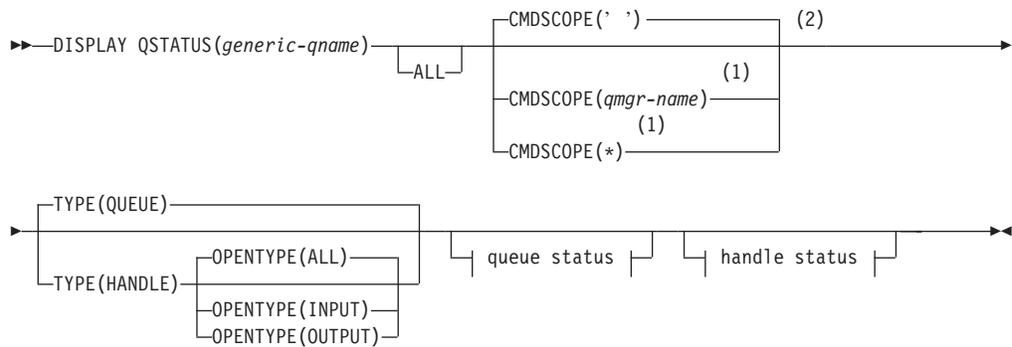
Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
		✓		✓	✓	2CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use DISPLAY QSTATUS to display the status of one or more queues.

Synonym: DIS QS

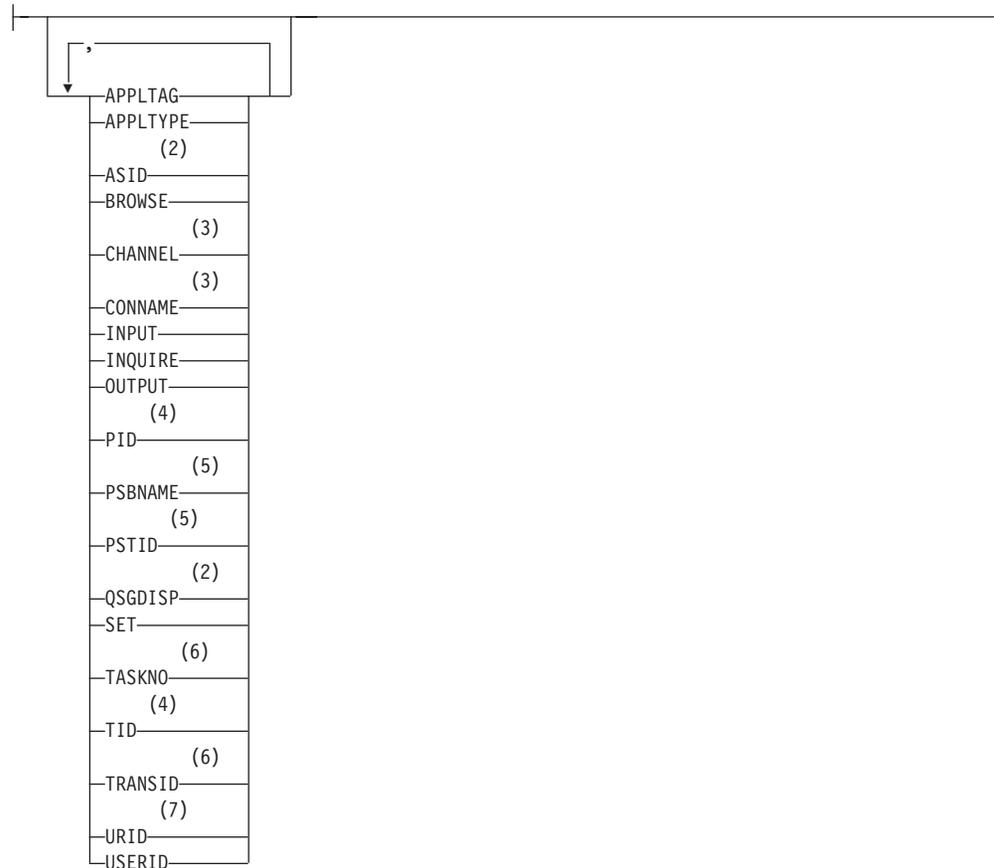
DISPLAY QSTATUS



Queue status:



Handle status:



Notes:

|
|

- 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- 2 Valid on z/OS only.
- 3 Channel initiator only
- 4 Not valid on Compaq NSK or z/OS.
- 5 IMS only
- 6 CICS only
- 7 RRSBATCH only

Parameter descriptions

You must specify the name of the queue for which you want to display status information. This can be a specific queue name or a generic queue name. By using a generic queue name you can display either:

- Status information for all queues, or
- Status information for one or more queues that match the specified name and other selection criteria

You must also specify whether you want status information about:

- Queues
- Handles that are accessing the queues

DISPLAY QSTATUS

Note: You cannot use the DISPLAY QSTATUS command to display the status of an alias queue or remote queue. If you specify the name of one of these types of queue, no data is returned. You can, however, specify the name of the local queue or transmission queue to which the alias queue or remote queue resolves.

(generic-qname)

The name of the queue for which status information is to be displayed. A trailing asterisk (*) matches all queues with the specified stem followed by zero or more characters. An asterisk (*) on its own matches all queues. The queues must all be defined to the local queue manager or queue-sharing group.

ALL Display all the status information for each specified queue.

This is the default if you do not specify a generic name, and do not request any specific parameters.

CMDSCOPE

This parameter specifies how the command is executed when the queue manager is a member of a queue-sharing group. It is valid on z/OS only.

' ' The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

***** The command is executed on the local queue manager and is also passed to every active queue manager in the queue-sharing group. The effect of this is the same as entering the command on every queue manager in the queue-sharing group.

OPENTYPE

Restricts the queues selected to those that have handles with the specified type of access:

ALL Selects queues that are open with any type of access. This is the default if the OPENTYPE parameter is not specified.

INPUT

Selects queues that are open for input only. This option does not select queues that are open for browse.

OUTPUT

Selects queues that are open only for output.

The OPENTYPE parameter is valid only if TYPE(HANDLE) is also specified.

TYPE Specifies the type of status information required:

QUEUE

Status information relating to queues is displayed. This is the default if the TYPE parameter is not specified.

HANDLE

Status information relating to the handles that are accessing the queues is displayed.

Queue status

For queue status, the following information is always returned for each queue that satisfies the selection criteria, except where indicated:

- Queue name
- Type of information returned (TYPE parameter)
- Current queue depth (CURDEPTH parameter)
- Queue-sharing group disposition (QSGDISP parameter) - only if there is a queue-sharing group environment. (z/OS only)

The following parameters can be specified for TYPE(QUEUE) to request additional information for each queue. If a parameter is specified that is not relevant for the queue, operating environment, or type of status information requested, that parameter is ignored.

CURDEPTH

The current depth of the queue, that is, the number of messages on the queue. This includes both committed messages and uncommitted messages.

IPPROCS

The number of handles that are currently open for input for the queue (either input-shared or input-exclusive). This does not include handles that are open for browse.

For shared queues, the number returned applies only to the queue manager generating the reply. The number is not the total for all the queue managers in the queue-sharing group.

OPPROCS

This is the number of handles that are currently open for output for the queue.

For shared queues, the number returned applies only to the queue manager generating the reply. The number is not the total for all the queue managers in the queue-sharing group.

QSGDISP

Indicates the disposition of the queue. The value displayed is one of the following:

- QMGR** The object was defined with QSGDISP(QMGR).
- COPY** The object was defined with QSGDISP(COPY).
- SHARED** The object was defined with QSGDISP(SHARED).

This parameter is valid on z/OS only.

This parameter is returned if requested, or if there is a queue-sharing group environment.

DISPLAY QSTATUS

For shared queues, if the CF structure used by the queue is unavailable or has failed, the status information might be unreliable.

UNCOM

Indicates whether there are any uncommitted changes (puts and gets) pending for the queue. The value displayed is one of the following:

YES There are uncommitted changes pending.

NO There are no uncommitted changes pending.

For shared queues, the value returned applies only to the queue manager generating the reply. The value does not apply to all the queue managers in the queue-sharing group.

Handle status

For handle status, the following information is always returned for each queue that satisfies the selection criteria, except where indicated:

- Queue name
- Type of information returned (TYPE parameter)
- User identifier (USERID parameter) –not returned for APPLTYPE(SYSTEM)
- Process ID (PID parameter)
- Thread ID (TID parameter)
- Application tag (APPLTAG parameter)
- Application type (APPLTYPE parameter)
- Whether handle is providing input access (INPUT parameter)
- Whether handle is providing output access (OUTPUT parameter)
- Whether handle is providing browse access (BROWSE parameter)
- Whether handle is providing inquire access (INQUIRE parameter)
- Whether handle is providing set access (SET parameter)

The following parameters can be specified for TYPE(HANDLE) to request additional information for each queue. If a parameter that is not relevant is specified for the queue, operating environment, or type of status information requested, that parameter is ignored.

APPLTAG

A string containing the tag of the application connected to the queue manager. It is one of the following:

- z/OS batch job name
- TSO USERID
- CICS APPLID
- IMS region name
- Channel initiator job name
- OS/400 job name
- UNIX process
- Windows process

Application name represents the name of the process or job that has connected to the queue manager. In the instance that this process or job is connected via a channel, the application name represents the remote process or job rather than the local channel process or job name.

APPLTYPE

A string indicating the type of the application that is connected to the queue manager. It is one of the following:

BATCH Application using a batch connection

RRSBATCH	RRS-coordinated application using a batch connection
CICS	CICS transaction
IMS	IMS transaction
CHINIT	Channel initiator
SYSTEM	Queue manager
USER	A user application

ASID A 4-character address-space identifier of the application identified by APPLTAG. It distinguishes duplicate values of APPLTAG.

This parameter is returned only when the queue manager owning the queue is running on z/OS, and the APPLTYPE parameter does not have the value SYSTEM.

BROWSE

Indicates whether the handle is providing browse access to the queue. The value is one of the following:

- YES** The handle is providing browse access.
- NO** The handle is not providing browse access.

CHANNEL

The name of the channel that owns the handle. If there is no channel associated with the handle, this parameter is blank.

This parameter is returned only when the handle belongs to the channel initiator.

CONNNAME

The connection name associated with the channel that owns the handle. If there is no channel associated with the handle, this parameter is blank.

This parameter is returned only when the handle belongs to the channel initiator.

INPUT

Indicates whether the handle is providing input access to the queue. The value is one of the following:

- SHARED** The handle is providing shared-input access.
- EXCL** The handle is providing exclusive-input access.
- NO** The handle is not providing input access.

INQUIRE

Indicates whether the handle is providing inquire access to the queue. The value is one of the following:

- YES** The handle is providing inquire access.
- NO** The handle is not providing inquire access.

OUTPUT

Indicates whether the handle is providing output access to the queue. The value is one of the following:

- YES** The handle is providing output access.
- NO** The handle is not providing output access.

PID Number specifying the process identifier of the application that has opened the specified queue.

This parameter is not valid on Compaq NSK and z/OS.

PSBNAME

The 8-character name of the program specification block (PSB) associated with the running IMS transaction. You can use the PSBNAME and PSTID to purge the transaction using IMS commands. It is valid on z/OS only.

DISPLAY QSTATUS

This parameter is returned only when the APPLTYPE parameter has the value IMS.

PSTID

The 4-character IMS program specification table (PST) region identifier for the connected IMS region. It is valid on z/OS only.

This parameter is returned only when the APPLTYPE parameter has the value IMS.

QSGDISP

Indicates the disposition of the queue. It is valid on z/OS only. The value is one of the following:

QMGR The object was defined with QSGDISP(QMGR).

COPY The object was defined with QSGDISP(COPY).

SHARED The object was defined with QSGDISP(SHARED).

This parameter is returned if requested, or if there is a queue-sharing group environment.

SET Indicates whether the handle is providing set access to the queue. The value is one of the following:

YES The handle is providing set access.

NO The handle is not providing set access.

TASKNO

A 7-digit CICS task number. This number can be used in the CICS command "CEMT SET TASK(taskno) PURGE" to end the CICS task. This parameter is valid on z/OS only.

This parameter is returned only when the APPLTYPE parameter has the value CICS.

TID Number specifying the thread identifier within the application process that has opened the specified queue.

This parameter is not valid on Compaq NSK and z/OS.

TRANSID

A 4-character CICS transaction identifier. This parameter is valid on z/OS only.

This parameter is returned only when the APPLTYPE parameter has the value CICS.

URID

The 32-character hexadecimal form of the 16-byte RRS unit-of-recovery identifier associated with the handle. This parameter is valid on z/OS only.

This parameter is returned only when the APPLTYPE parameter has the value RRSBATCH.

USERID

The user identifier associated with the handle.

This parameter is not returned when APPLTYPE has the value SYSTEM.

DISPLAY QUEUE

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
✓	✓	✓	✓	✓	✓	2CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use DISPLAY QUEUE to display the attributes of one or more queues of any type.

Notes:

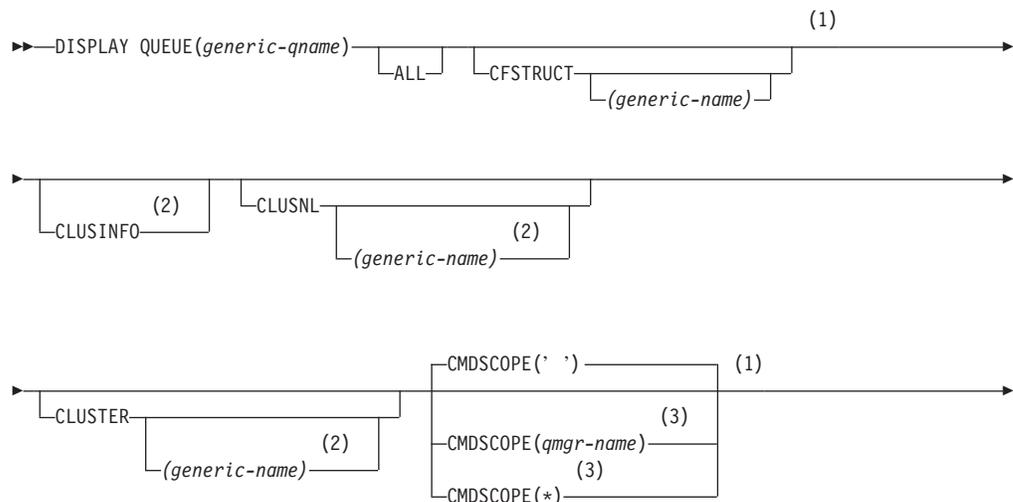
- On AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS, you can use the following commands (or their synonyms) as an alternative way to display these attributes.
 - DISPLAY QALIAS
 - DISPLAY QCLUSTER
 - DISPLAY QLOCAL
 - DISPLAY QMODEL
 - DISPLAY QREMOTE

These commands produce the same output as the DISPLAY QUEUE TYPE(*queue-type*) command. If you enter the commands this way, do not use the TYPE parameter because this causes an error.

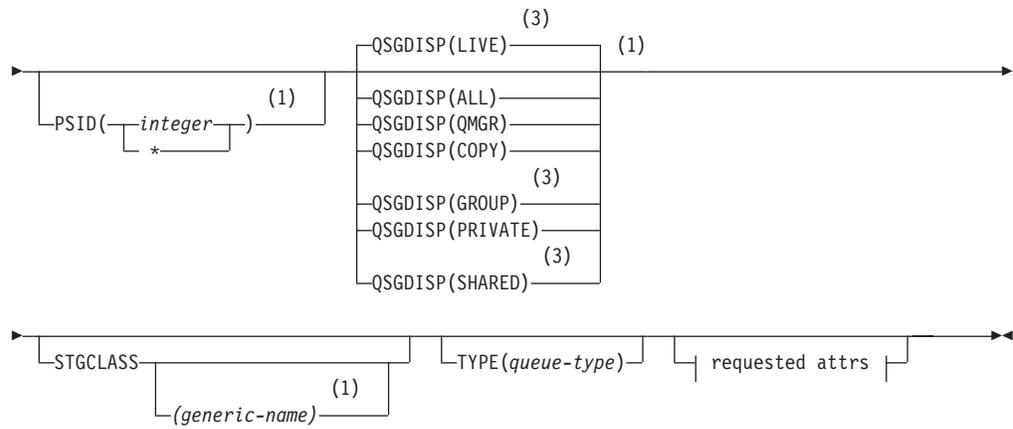
- On z/OS, the channel initiator must be running before you can display information about cluster queues (using TYPE(QCLUSTER) or the CLUSINFO parameter).
- The command might not show every clustered queue in the cluster when issued on a partial repository, because the partial repository only knows about a queue once it has tried to use it.

Synonym: DIS Q

DISPLAY QUEUE



DISPLAY QUEUE



Requested attrs:

	(2)
ALTDATA	
	(2)
ALTTIME	
BOQNAME	
BOTHRESH	
	(2)
CLUSDATE	
	(2)
CLUSQMGR	
	(2)
CLUSQT	
	(2)
CLUSTIME	
CRDATE	
CRTIME	
CURDEPTH	
	(2)
DEFBIND	
DEFPRTY	
DEFPSIST	
DEFSOPT	
DEFTYPE	
DESCR	
	(4)
DISTL	
GET	
HARDENBO	
	(1)
INDXTYPE	
INITQ	
IPPROCS	
MAXDEPTH	
MAXMSGL	
MSGDLVSQ	
OPPROCS	
PROCESS	
PUT	
QDEPTHHI	
QDEPTHLO	
QDPHIEV	
QDPLOEV	
QDPMAXEV	
	(2)
QMID	
QSVCI EV	
QSVCI NT	
QTYPE	
RETINTVL	
RNAME	
RQMNAME	
	(5)
SCOPE	
SHARE	
TARGQ	
TRIGDATA	
TRIGDPH	
TRIGGER	
TRIGMPRI	
TRIGTYPE	
USAGE	
XMITQ	

DISPLAY QUEUE

Notes:

- 1 Valid only on z/OS.
- 2 Valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.
- 3 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- 4 Valid only on AIX, Compaq OpenVMS, , HP-UX, Linux, OS/2 Warp, OS/400, Solaris, and Windows.
- 5 Not valid on z/OS or OS/400.

Parameter descriptions

You must specify the name of the queue definition you want to display. This can be a specific queue name or a generic queue name. By using a generic queue name, you can display either:

- All queue definitions
- One or more queues that match the specified name

(generic-q-name)

The local name of the queue definition to be displayed (see “Rules for naming WebSphere MQ objects” on page 4). A trailing asterisk (*) matches all queues with the specified stem followed by zero or more characters. An asterisk (*) on its own specifies all queues. The names must all be defined to the local queue manager.

ALL Specify this to display all the attributes. If this parameter is specified, any attributes that are also requested specifically have no effect; all attributes are still displayed.

On AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS, this is the default if you do not specify a generic name and do not request any specific attributes.

CFSTRUCT*(generic-name)*

This parameter is optional and limits the information displayed to those queues where the value of the coupling facility structure is specified in brackets.

The value can be a generic name. If you do not enter a value for this parameter, CFSTRUCT is treated as a requested parameter.

CLUSINFO

This requests that, in addition to information about attributes of queues defined on this queue manager, information about these and other queues in the cluster that match the selection criteria is displayed. In this case, there might be multiple queues with the same name displayed. The cluster information is obtained from the repository on this queue manager.

This parameter is valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.

CLUSNL*(generic-name)*

This is optional, and limits the information displayed if entered with a value in brackets:

- For queues defined on the local queue manager, only those with the specified cluster list. The value can be a generic name. Only queue types for which CLUSNL is a valid parameter are restricted in this way; other queue types that meet the other selection criteria are displayed.

DISPLAY QUEUE

- For cluster queues, only those belonging to clusters in the specified cluster list if the value is not a generic name. If the value is a generic name, no restriction is applied to cluster queues.

If you do not enter a value to qualify this parameter, it is treated as a requested parameter, and cluster list information is returned about all the queues displayed.

This parameter is valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.

Note: If the disposition requested is SHARED, CMDSCOPE must be blank or the local queue manager.

CLUSTER(*generic-name*)

This is optional, and limits the information displayed to queues with the specified cluster name if entered with a value in brackets. The value can be a generic name. Only queue types for which CLUSTER is a valid parameter are restricted in this way by this parameter; other queue types that meet the other selection criteria are displayed.

If you do not enter a value to qualify this parameter, it is treated as a requested parameter, and cluster name information is returned about all the queues displayed.

This parameter is valid only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows, and z/OS.

CMDSCOPE

This parameter applies to z/OS only and specifies how the command is executed when the queue manager is a member of a queue-sharing group.

CMDSCOPE must be blank, or the local queue manager, if QSGDISP is set to GROUP or SHARED.

' ' The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

* The command is executed on the local queue manager and is also passed to every active queue manager in the queue-sharing group. The effect of this is the same as entering the command on every queue manager in the queue-sharing group.

PSID(*integer*)

The identifier of the page set where a queue resides. This is optional. Specifying a value limits the information displayed to queues that have an active association to the specified page set. The value consists of two numeric characters, in the range 00 through 99. An asterisk (*) on its own specifies all page set identifiers. If you do not enter a value, page set information is returned about all the queues displayed.

DISPLAY QUEUE

The page set identifier is displayed only if there is an active association of the queue to a page set, that is, after the queue has been the target of an MQPUT request. The association of a queue to a page set is not active when:

- the queue has just been defined
- the queue's STGCLASS attribute has been changed, and there has been no subsequent MQPUT request to the queue
- the queue manager has been restarted and there are no messages on the queue

This parameter is valid only on z/OS.

QSGDISP

Specifies the disposition of the objects for which information is to be displayed. Values are:

- LIVE** This is the default value and displays information for objects defined with QSGDISP(QMGR) or QSGDISP(COPY). If there is a shared queue manager environment, and the command is being executed on the queue manager where it was issued, also display information for objects defined with QSGDISP(SHARED).
- ALL** Display information for objects defined with QSGDISP(QMGR) or QSGDISP(COPY).
- If there is a shared queue manager environment, and the command is being executed on the queue manager where it was issued, this option also displays information for objects defined with QSGDISP(GROUP) or QSGDISP(SHARED).
- In a shared queue manager environment, use
DISPLAY QUEUE(name) CMDSCOPE(*) QSGDISP(ALL)
- to list ALL objects matching
name
- in the queue-sharing group without duplicating those in the shared repository.
- COPY** Display information only for objects defined with QSGDISP(COPY).
- GROUP** Display information only for objects defined with QSGDISP(GROUP). This is allowed only if there is a shared queue manager environment.
- PRIVATE** Display information only for objects defined with QSGDISP(QMGR) or QSGDISP(COPY).
- QMGR** Display information only for objects defined with QSGDISP(QMGR).
- SHARED** Display information only for objects defined with QSGDISP(SHARED). This is allowed only in a shared queue manager environment.

Note: For cluster queues, this is always treated as a requested parameter. The value returned is the disposition of the real queue that the cluster queue represents.

If QSGDISP(LIVE) is specified or defaulted, or if QSGDISP(ALL) is specified in a shared queue manager environment, the command might give duplicated names (with different dispositions) .

Note: In the QSGDISP(LIVE) case, this occurs only where a shared and a non-shared queue have the same name; such a situation should not occur in a well-managed system.

QSGDISP displays one of the following values if it is specified, or if there is a shared queue manager environment:

- QMGR** The object was defined with QSGDISP(QMGR).
- GROUP** The object was defined with QSGDISP(GROUP).
- COPY** The object was defined with QSGDISP(COPY).
- SHARED** The object was defined with QSGDISP(SHARED).

STGCLASS(*generic-name*)

This is optional, and limits the information displayed to queues with the storage class specified if entered with a value in brackets. The value can be a generic name.

If you do not enter a value to qualify this parameter, it is treated as a requested parameter, and storage class information is returned about all the queues displayed.

This parameter is valid only on z/OS.

TYPE(*queue-type*)

This is optional, and specifies the type of queues you want to be displayed. The default is to display all queue types; this includes cluster queues if CLUSINFO is also specified.

| You can specify any of the queue types allowed for a DEFINE command
 | (QLOCAL, QALIAS, QREMOTE, or their synonyms). A queue type of
 | QCLUSTER can be specified to display only cluster queue information on
 | AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris,
 | Windows, and z/OS.

| If QCLUSTER is specified, any selection criteria specified by the
 | CFSTRUCT, STGCLASS, or PSID parameters are ignored.

| On AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris,
 | and Windows, QTYPE(*type*) can be used as a synonym for this parameter.

If no parameters are specified (and the ALL parameter is not specified or defaulted), the queue name and queue type are displayed.

Requested parameters

Specify one or more parameters that define the data to be displayed. The parameters can be specified in any order, but do not specify the same parameter more than once.

Most parameters are relevant only for queues of a particular type or types. Parameters that are not relevant for a particular type of queue cause no output, nor is an error raised.

DISPLAY QUEUE

Table 7 shows the parameters that are relevant for each type of queue. There is a brief description of each parameter after the table, but for more information, see the DEFINE command for each queue type.

Table 7. Parameters that can be returned by the DISPLAY QUEUE command

	Local queue	Model queue	Alias queue	Remote queue	Cluster queue
ALTDATE ¹	✓	✓	✓	✓	✓
ALTTIME ¹	✓	✓	✓	✓	✓
BOQNAME	✓	✓			
BOTHRESH	✓	✓			
CFSTRUCT ³	✓	✓			
CLUSDATE ¹					✓
CLUSNL ¹	✓		✓	✓	
CLUSQMGR ¹					✓
CLUSQT ¹					✓
CLUSTER ¹	✓		✓	✓	✓
CLUSTIME ¹					✓
CRDATE	✓	✓			
CRTIME	✓	✓			
CURDEPTH	✓				
DEFBIND ¹	✓		✓	✓	✓
DEFPRTY	✓	✓	✓	✓	✓
DEFPSIST	✓	✓	✓	✓	✓
DEFSOPT	✓	✓			
DEFTYPE	✓	✓			
DESCR	✓	✓	✓	✓	✓
DISTL ²	✓	✓			
GET	✓	✓	✓		
HARDENBO	✓	✓			
INDXTYPE ³	✓	✓			
INITQ	✓	✓			
IPPROCS	✓				
MAXDEPTH	✓	✓			
MAXMSG	✓	✓			
MSGDLVSQ	✓	✓			
OPPROCS	✓				
PROCESS	✓	✓			
PSID ⁴	✓				
PUT	✓	✓	✓	✓	✓
QDEPTHHI	✓	✓			
QDEPTHLO	✓	✓			
QDPHIEV	✓	✓			

DISPLAY QUEUE

Table 7. Parameters that can be returned by the DISPLAY QUEUE command (continued)

	Local queue	Model queue	Alias queue	Remote queue	Cluster queue
QDPLOEV	✓	✓			
QDPMAXEV	✓	✓			
QMID ¹					✓
QSGDISP ³	✓	✓	✓	✓	✓
QSVCI EV	✓	✓			
QSVCI NT	✓	✓			
QTYPE	✓	✓	✓	✓	✓
RETINTVL	✓	✓			
RNAME				✓	
RQMNAME				✓	
SCOPE ⁵	✓		✓	✓	
SHARE	✓	✓			
STGCLASS ³	✓	✓			
TARGQ			✓		
TRIGDATA	✓	✓			
TRIGDP TH	✓	✓			
TRIGGER	✓	✓			
TRIGMPRI	✓	✓			
TRIGTYPE	✓	✓			
USAGE	✓	✓			
XMITQ				✓	

Notes:

1. Supported only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, Windows and z/OS.

2. Supported only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, and Windows.

3. Supported only on z/OS.

4. Supported only on z/OS, returned only for queues with a disposition of QMGR or COPY.

5. Not supported on z/OS.

ALTDATE

The date on which the definition or information was last altered, in the form yyyy-mm-dd.

ALTTIME

The time at which the definition or information was last altered, in the form hh.mm.ss.

BOQNAME

Backout requeue name.

DISPLAY QUEUE

BOTHRESH

Backout threshold.

CLUSDATE

The date on which the definition became available to the local queue manager, in the form yyyy-mm-dd.

CLUSNL

The namelist that defines the cluster that the queue is in.

CLUSQMGR

The name of the queue manager that hosts the queue.

CLUSQT

Cluster queue type. This can be:

QALIAS

The cluster queue represents an alias queue.

QLOCAL

The cluster queue represents a local queue.

QMGR

The cluster queue represents a queue manager alias.

QREMOTE

The cluster queue represents a remote queue.

CLUSTER

The name of the cluster that the queue is in.

CLUSTIME

The time at which the definition became available to the local queue manager, in the form hh.mm.ss.

CRDATE

The date on which the queue was defined (in the form yyyy-mm-dd).

CRTIME

The time at which the queue was defined (in the form hh.mm.ss).

CURDEPTH

Current depth of queue.

On z/OS, CURDEPTH is returned as zero for queues defined with a disposition of GROUP. It is also returned as zero for queues defined with a disposition of SHARED if the CF structure that they use is unavailable or has failed.

DEFBIND

Default message binding.

DEFPRTY

Default priority of the messages put on the queue.

DEFPSIST

Whether the default persistence of messages put on this queue is set to NO or YES. NO means that messages are lost across a restart of the queue manager.

DEFSOPT

Default share option on a queue opened for input.

DEFTYPE

Queue definition type. This can be:

- PREDEFINED (Predefined)

The queue was created with a DEFINE command, either by an operator or by a suitably authorized application sending a command message to the service queue.

- PERMDYN (Permanent dynamic)

Either the queue was created by an application issuing **MQOPEN** with the name of a model queue specified in the object descriptor (MQOD), or (if this is a model queue) this determines the type of dynamic queue that can be created from it.

On z/OS the queue was created with QSGDISP(QMGR).

- TEMPDYN (Temporary dynamic)

Either the queue was created by an application issuing **MQOPEN** with the name of a model queue specified in the object descriptor (MQOD), or (if this is a model queue) this determines the type of dynamic queue that can be created from it.

On z/OS the queue was created with QSGDISP(QMGR).

- SHAREDYN

A permanent dynamic queue was created when an application issued an **MQOPEN** API call with the name of this model queue specified in the object descriptor (MQOD).

On z/OS, in a queue-sharing group environment, the queue was created with QSGDISP(SHARED).

DESCR

Descriptive comment.

DISTL

| Whether distribution lists are supported by the partner queue manager.
 | (Supported only on AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp,
 | OS/400, Solaris, and Windows.)

GET Whether the queue is enabled for gets.

HARDENBO

Whether to harden the get back out count.

| **Note:** On MQSeries for Compaq NonStop Kernel, this parameter is
 | ignored. The backout count of a message is always hardened for
 | persistent messages, and never hardened for non-persistent
 | messages.

INDXTYPE

Index type (supported only on z/OS).

INITQ

Initiation queue name.

IPPROCS

Number of handles indicating that the queue is open for input.

On z/OS, IPPROCS is returned as zero for queues defined with a disposition of GROUP. With a disposition of SHARED, only the handles for the queue manager sending back the information are returned, not the information for the whole group.

MAXDEPTH

Maximum depth of queue.

MAXMSGL

Maximum message length.

DISPLAY QUEUE

MSGDLVSQ

Message delivery sequence.

OPPROCS

Number of handles indicating that the queue is open for output.

On z/OS, OPPROCS is returned as zero for queues defined with a disposition of GROUP. With a disposition of SHARED, only the handles for the queue manager sending back the information are returned, not the information for the whole group.

PROCESS

Process name.

PUT Whether the queue is enabled for puts.

QDEPTHHI

Queue Depth High event generation threshold.

QDEPTHLO

Queue Depth Low event generation threshold.

QDPHIEV

Whether Queue Depth High events are generated.

QDPLOEV

Whether Queue Depth Low events are generated.

QDPMAXEV

Whether Queue Full events are generated.

QMID

The internally generated unique name of the queue manager that hosts the queue.

QSVCI EV

Whether service interval events are generated.

QSVCI NT

Service interval event generation threshold.

QTYPE

Queue type.

| On AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris,
| and Windows, the queue type is always displayed if you specify a generic
| queue name and do not request any other parameters. On z/OS, the queue
| type is always displayed.

| On AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris,
| and Windows, TYPE(*type*) can be used as a synonym for this parameter.

RETINTVL

Retention interval.

RNAME

Name of the local queue, as known by the remote queue manager.

RQMNAME

Remote queue manager name.

SCOPE

| Scope of queue definition (not supported on z/OS).

SHARE

Whether the queue can be shared.

STGCLASS

Storage class.

TARGQ

Local name of aliased queue.

TRIGDATA

Trigger data.

TRIGDPTH

Trigger depth.

TRIGGER

Whether triggers are active.

TRIGMPRI

Threshold message priority for triggers.

TRIGTYPE

Trigger type.

USAGE

Whether or not the queue is a transmission queue.

XMITQ

Transmission queue name.

DISPLAY SECURITY

DISPLAY SECURITY

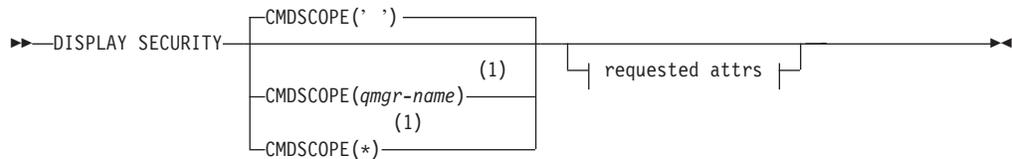
Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
						12CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use DISPLAY SECURITY to display the current settings for the security parameters.

Synonym: DIS SEC

DISPLAY SECURITY



Requested attrs:



Notes:

- Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.

Parameter descriptions

CMDSCOPE

This parameter specifies how the command is executed when the queue manager is a member of a queue-sharing group.

CMDSCOPE cannot be used for commands issued from the first initialization input data set CSQINP1.

' '

The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

DISPLAY SECURITY

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

- * The command is executed on the local queue manager and is also passed to every active queue manager in the queue-sharing group. The effect of this is the same as entering the command on every queue manager in the queue-sharing group.

ALL Display the **TIMEOUT**, **INTERVAL**, and **SWITCHES** parameters. This is the default if no requested parameters are specified.

INTERVAL

Time interval between checks.

SWITCHES

Display the current setting of the switch profiles.

If the subsystem security switch is off, no other switch profile settings are displayed.

TIMEOUT

Timeout value.

See “ALTER SECURITY” on page 54 for details of the **TIMEOUT** and **INTERVAL** parameters.

DISPLAY STGCLASS

DISPLAY STGCLASS

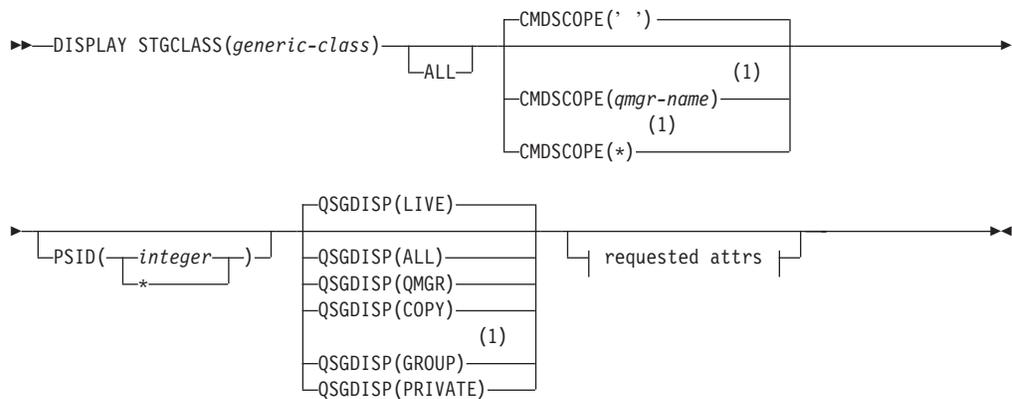
Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
						2CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use DISPLAY STGCLASS to display information about storage classes.

Synonym: DIS STC

DISPLAY STGCLASS



Requested attrs:



Notes:

- Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.

Parameter descriptions

You use DISPLAY STGCLASS to show the page set identifiers that are associated with each storage class.

(generic-class)

Name of the storage class. This is required.

This is 1 through 8 characters. The first character is in the range A through Z; subsequent characters are A through Z or 0 through 9.

A trailing asterisk (*) matches all storage classes with the specified stem followed by zero or more characters. An asterisk (*) on its own specifies all storage classes.

CMDSCOPE

This parameter specifies how the command is executed when the queue manager is a member of a queue-sharing group.

If QSGDISP is set to GROUP, CMDSCOPE must be blank or the local queue manager.

' ' The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

* The command is executed on the local queue manager and is also passed to every active queue manager in the queue-sharing group. The effect of this is the same as entering the command on every queue manager in the queue-sharing group.

PSID(*integer*)

The page set identifier that a storage class maps to. This is optional.

The string consists of two numeric characters, in the range 00 through 99. An asterisk (*) on its own specifies all page set identifiers. See "DEFINE PSID" on page 128.

QSGDISP

Specifies the disposition of the objects for which information is to be displayed. Values are:

LIVE This is the default value and displays information for objects defined with QSGDISP(QMGR) or QSGDISP(COPY).

ALL Displays information for objects defined with QSGDISP(QMGR) or QSGDISP(COPY).

If there is a shared queue manager environment, and the command is being executed on the queue manager where it was issued, this option also displays information for objects defined with QSGDISP(GROUP).

If QSGDISP(ALL) is specified in a shared queue manager environment, the command might give duplicated names (with different dispositions).

In a shared queue manager environment, use
DISPLAY STGCLASS(*generic-class*) CMDSCOPE(*) QSGDISP(ALL)

to list ALL objects matching

name

DISPLAY STGCLASS

in the queue-sharing group without duplicating those in the shared repository.

COPY	Display information only for objects defined with QSGDISP(COPY).
GROUP	Display information only for objects defined with QSGDISP(GROUP). This is allowed only if there is a shared queue manager environment.
PRIVATE	Display information only for objects defined with QSGDISP(QMGR) or QSGDISP(COPY).
QMGR	Display information only for objects defined with QSGDISP(QMGR).

QSGDISP displays one of the following values if it is specified, or if there is a shared queue manager environment:

QMGR	The object was defined with QSGDISP(QMGR).
GROUP	The object was defined with QSGDISP(GROUP).
COPY	The object was defined with QSGDISP(COPY).

ALL Specify this to display all the parameters. If this parameter is specified, any parameters that are also requested specifically have no effect; all parameters are still displayed.

This is the default if you do not specify a generic name, and do not request any specific parameters.

Requested parameters

Specify one or more parameters that define the data to be displayed. The parameters can be specified in any order, but do not specify the same parameter more than once.

The default, if no parameters are specified (and the ALL parameter is not specified) is the storage class names and their page set identifiers are displayed.

ALTDATE

The date on which the definition was last altered, in the form yyyy-mm-dd.

ALTTIME

The time at which the definition was last altered, in the form hh.mm.ss.

DESCR

Descriptive comment.

XCFGNAME

The name of the XCF group that WebSphere MQ is a member of.

XCFMNAME

The XCF member name of the IMS system within the XCF group specified in XCFGNAME.

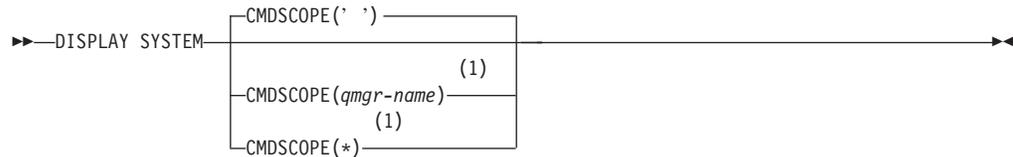
DISPLAY SYSTEM

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
						12CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use DISPLAY SYSTEM to display system information.

Synonym: DIS SYSTEM



Notes:

- 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.

Parameter descriptions

CMDSCOPE

This parameter specifies how the command is executed when the queue manager is a member of a queue-sharing group.

CMDSCOPE cannot be used for commands issued from the first initialization input data set CSQINP1.

' ' The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

* The command is executed on the local queue manager and is also passed to every active queue manager in the queue-sharing group. The effect of this is the same as entering the command on every queue manager in the queue-sharing group.

Usage notes

1. DISPLAY SYSTEM returns a report that shows the initial values of the system parameters and the current values as changed by the SET SYSTEM command:
 - Default user ID for command security checks (CMDUSER).

DISPLAY SYSTEM

- Maximum number of connections from batch, CICS, IMS, and TSO tasks to a single instance of WebSphere MQ (CTHREAD).
 - Time in seconds for which queue manager exits can execute during each invocation (EXITLIM).
 - How many started server tasks to use to run queue manager exits (EXITTTCB).
 - Maximum number of connections to a single instance of WebSphere MQ from batch or TSO background tasks (IDBACK).
 - Maximum number of connections to a single instance of WebSphere MQ from TSO foreground tasks (IDFORE).
 - Number of log records written by WebSphere MQ between the start of one checkpoint and the next (LOGLOAD).
 - The OTMA connection parameters (OTMACON).
 - Whether queue manager restart waits until all indexes are built, or completes before all indexes are built (QINDEXBLD).
 - Coded character set identifier for the queue manager (QMCCSID).
 - The queue-sharing group parameters (QSGDATA).
 - The RESLEVEL auditing parameter (RESAUDIT).
 - The message routing code assigned to messages not solicited from a specific console (ROUTCDE).
 - Whether SMF accounting data is collected when WebSphere MQ is started (SMFACCT).
 - Whether SMF statistics are collected when WebSphere MQ is started (SMFSTAT).
 - Default time, in minutes, between each gathering of statistics (STATIME).
 - Whether tracing is started automatically (TRACSTR).
 - Size of trace table, in 4 KB blocks, to be used by the global trace facility (TRACTBL).
 - Time in minutes between scanning the queue index for WLM-managed queues (WLMTIME).
2. This command is issued internally by WebSphere MQ at the end of queue manager startup.

DISPLAY THREAD

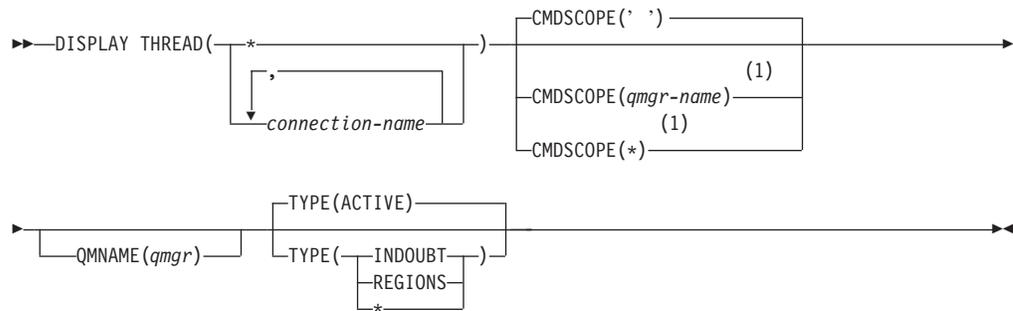
Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
						2CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use DISPLAY THREAD to display information about active and in-doubt threads. Threads shown as in doubt on one invocation of this command will probably be resolved for subsequent invocations.

Synonym: DIS THD

DISPLAY THREAD



Notes:

- Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.

Parameter descriptions

(connection-name)

List of one or more *connection-names* (of 1 through 8 characters each).

- For batch connections, this name is the batch job name
- For CICS connections, this name is the CICS applid
- For IMS connections, this name is the IMS job name
- For TSO connections, this name is the TSO user ID
- For RRS connections, this is RRSBATCH

Threads are selected from the address spaces associated with these connections only.

(*) Displays threads associated with all connections to WebSphere MQ.

CMDSCOPE

This parameter specifies how the command is executed when the queue manager is a member of a queue-sharing group.

CMDSCOPE cannot be used for commands issued from the first initialization input data set CSQINP1.

'' The command is executed on the queue manager on which it was entered. This is the default value.

DISPLAY THREAD

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

- * The command is executed on the local queue manager and is also passed to every active queue manager in the queue-sharing group. The effect of this is the same as entering the command on every queue manager in the queue-sharing group.

TYPE The type of thread to display. This parameter is optional.

ACTIVE

Display only active threads.

An active thread is one for which a unit of recovery has started but not completed. Resources are held in WebSphere MQ on its behalf.

This is the default if TYPE is omitted.

INDOUBT

Display only in-doubt threads.

An in-doubt thread is one that is in the second phase of the two-phase commit operation. Resources are held in WebSphere MQ on its behalf. External intervention is needed to resolve the status of in-doubt threads. You might only have to start the recovery coordinator (CICS, IMS, or RRS), or you might need to do more. They might have been in doubt at the last restart, or they might have become in doubt since the last restart.

REGIONS

Display a summary of active threads for each active connection.

Note: Threads used internally by WebSphere MQ are excluded.

- * Display both active and in-doubt threads, but not regions.

If, during command processing, an active thread becomes in doubt, it might appear twice: once as active and once as in doubt.

QMNAME

Specifies that WebSphere MQ should check whether the designated queue manager is INACTIVE, and if so, report any shared units of work that were in progress on the designated and inactive queue manager.

This option is valid only for TYPE(INDOUBT).

For more information about the DISPLAY THREAD command and in-doubt recovery, see the *WebSphere MQ for z/OS System Administration Guide*. Also, see messages CSQV401I through CSQV406I, and CSQV432I, in the *WebSphere MQ for z/OS Messages and Codes* manual.

Note: This command is issued internally by WebSphere MQ when taking a checkpoint, and when the queue manager is starting and stopping, so that a list of threads that are in doubt at the time is written to the z/OS console log.

DISPLAY TRACE

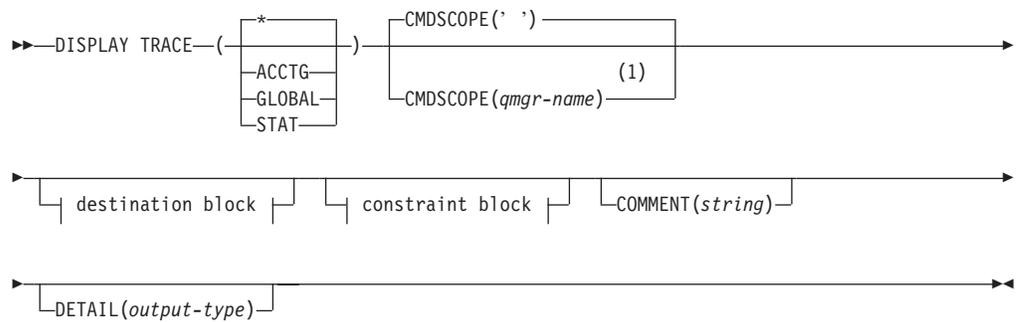
Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
						12CR

For an explanation of the symbols in the z/OS column, see "Using commands in z/OS" on page 4.

Use DISPLAY TRACE to display a list of active traces.

Synonym: DIS TRACE

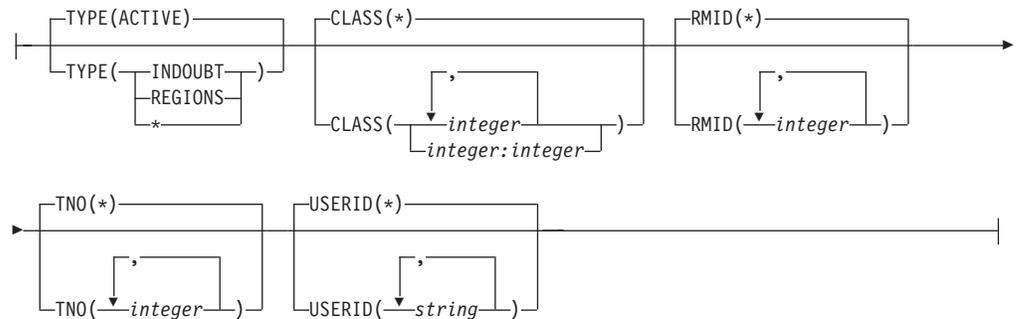
DISPLAY TRACE



Destination block:



Constraint block:



Notes:

- Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.

DISPLAY TRACE

Parameter descriptions

All parameters are optional. Each option that is used limits the effect of the command to active traces that were started using the same option, either explicitly or by default, with exactly the same parameter values.

* Does not limit the list of traces. This is the default. The CLASS option cannot be used with DISPLAY TRACE(*).

Each remaining parameter in this section limits the list to traces of the corresponding type:

ACCTG

Accounting data (the synonym is A)

GLOBAL

Service data from the entire queue manager(the synonym is G)

STAT Statistical data (the synonym is S)

COMMENT(*string*)

Specifies a comment. This does not appear in the display, but it might be recorded in trace output.

DETAIL(*output-type*)

This parameter is ignored; it is retained only for compatibility with earlier releases.

Possible values for *output-type* are *, 1, or 2.

CMDSCOPE

This parameter specifies how the command is executed when the queue manager is a member of a queue-sharing group.

CMDSCOPE cannot be used for commands issued from the first initialization input data set CSQINP1.

'' The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

Destination block

DEST

Limits the list to traces started for particular destinations. More than one value can be specified, but do not use the same value twice. If no value is specified, the list is not limited.

Possible values and their meanings are:

GTF The Generalized Trace Facility

RES A wraparound table residing in the ECSA (extended common service area)

SMF The System Management Facility

SRV A serviceability routine designed for IBM for problem diagnosis

Constraint block**CLASS**(*integer*)

Limits the list to traces started for particular classes. See “START TRACE” on page 326 for a list of allowed classes.

The default is CLASS(*), which does not limit the list.

RMID(*integer*)

Limits the list to traces started for particular resource managers. See “START TRACE” on page 326 for a list of allowed resource manager identifiers. Do not use this option with STAT.

The default is RMID(*), which does not limit the list.

Note: Information about RMID 231 might be inaccurate if the channel initiator has been stopped.

TNO(*integer*)

Limits the list to particular traces, identified by their trace number (0 to 32). Up to 8 trace numbers can be used. If more than one number is used, only one value for USERID can be used. The default is TNO(*), which does not limit the list.

0 is the trace that the channel initiator can start automatically. Traces 1 to 32 are those that can be started automatically by the queue manager, or manually, using the START TRACE command.

USERID(*string*)

Limits the list to traces started for particular user IDs. Up to 8 user IDs can be used. If more than one user ID is used, only one value can be used for TNO. Do not use this option with STAT. The default is USERID(*), which does not limit the list.

DISPLAY USAGE

DISPLAY USAGE

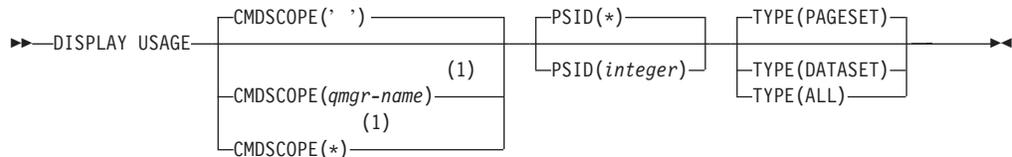
Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
						2CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use DISPLAY USAGE to display information about the current state of a page set, or to display information about the log data sets.

Synonym: DIS USAGE

DISPLAY USAGE



Notes:

- Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.

Parameter descriptions

CMDSCOPE

This parameter specifies how the command is executed when the queue manager is a member of a queue-sharing group.

CMDSCOPE cannot be used for commands issued from the first initialization input data set CSQINP1.

' ' The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

* The command is executed on the local queue manager and is also passed to every active queue manager in the queue-sharing group. The effect of this is the same as entering the command on every queue manager in the queue-sharing group.

PSID(*integer*)

The page-set identifier that a storage class maps to. This is optional.

DISPLAY USAGE

This is a number, in the range 00 through 99. An asterisk (*) on its own specifies all page set identifiers.

The command fails if PSID has been specified together with TYPE(DATASET).

TYPE Defines the type of information to be displayed. Values are:

PAGESET

Display page set and buffer pool information. This is the default.

DATASET

Display data set information for log data sets. This returns messages containing 44-character data set names for the following:

- The log data set containing the BEGIN_UR record for the oldest incomplete unit of work for this queue manager, or if there are no incomplete units of work, the log data set containing the current highest written RBA.
- The log data set containing the oldest restart_RBA of any pageset owned by this queue manager.
- The log data set whose timestamp range includes the timestamp of the last successful backup of any application structure known within the queue-sharing group.

ALL

Display both page set and data set information.

Note: This command is issued internally by WebSphere MQ during queue manager shutdown so that the restart RBA is recorded on the z/OS console log.

MOVE QLOCAL

MOVE QLOCAL

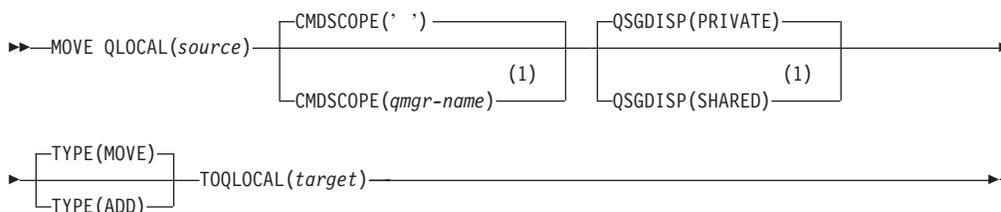
Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
						2CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use MOVE QLOCAL to move all the messages from one local queue to another.

Synonym: MOVE QL

MOVE QLOCAL



Notes:

- Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.

Parameter descriptions

You must specify the names of two local queues: the one you want to move messages from (the source queue) and the one you want to move the messages to (the target queue).

source The name of the local queue from which messages are moved. The name must be defined to the local queue manager.

The command fails if the queue contains uncommitted messages.

If an application has this queue open, or has open a queue that eventually resolves to this queue, the command fails. For example, the command fails if this queue is a transmission queue, and any queue that is, or resolves to, a remote queue that references this transmission queue, is open.

An application can open this queue while the command is in progress but the application waits until the command has completed.

CMDSCOPE

This parameter specifies how the command is executed when the queue manager is a member of a queue-sharing group.

' '

The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

QSGDISP

Specifies the disposition of the source queue.

PRIVATE

The queue is defined with QSGDISP(QMGR) or QSGDISP(COPY). This is the default value.

SHARED

The queue is defined with QSGDISP(SHARED). This is valid only in a queue-sharing group environment.

TYPE Specifies how the messages are moved.

MOVE

Move the messages from the source queue to the empty target queue.

The command fails if the target queue already contains one or more messages. The messages are deleted from the source queue. This is the default value.

ADD Move the messages from the source queue and add them to any messages already on the target queue.

The messages are deleted from the source queue.

target The name of the local queue to which messages are moved. The name must be defined to the local queue manager.

The name of the target queue can be the same as that of the source queue only if the queue exists as both a shared and a private queue. In this case, the command moves messages to the queue that has the opposite disposition (shared or private) from that specified for the source queue on the **QSGDISP** parameter.

If an application has this queue open, or has open a queue that eventually resolves to this queue, the command fails. The command also fails if this queue is a transmission queue, and any queue that is, or resolves to, a remote queue that references this transmission queue, is open.

No application can open this queue while the command is in progress.

If you specify **TYPE(MOVE)**, the command fails if the target queue already contains one or more messages.

The **DEFTYPE**, **HARDENBO**, **INDXTYPE**, and **USAGE** parameters of the target queue must be the same as those of the source queue.

Usage notes

1. A typical use of the **MOVE QLOCAL** command is to move messages from a private queue to a shared queue when you are setting up a queue-sharing group environment.
2. The **MOVE QLOCAL** command *moves* messages; it does not copy them.
3. The **MOVE QLOCAL** command moves messages in a similar way to an application performing successive **MQGET** and **MQPUT** calls. However, the **MOVE QLOCAL** command does not physically delete logically-expired messages and, therefore, no expiration reports are generated.

MOVE QLOCAL

4. The priority, context, and persistence of each message are not changed.
5. The command performs no data conversion and calls no exits.
6. Confirm-on-delivery (COD) report messages are not generated but confirm-on-arrival (COA) report messages are. This means that more than one COA report message can be generated for a message.
7. The MOVE QLOCAL command transfers the messages in batches. At COMMIT time, if the trigger conditions are met, trigger messages are produced. This might be at the end of the move operation.

Note: Before the transfer of messages begins, this command verifies that the number of messages on the source queue, when added to the number of messages on the target queue, does not exceed MAXDEPTH on the target queue.

If the MAXDEPTH of the target queue were to be exceeded, no messages are moved.

8. The MOVE QLOCAL command can change the sequence in which messages can be retrieved. The sequence remains unchanged only if:
 - You specify **TYPE(MOVE)** and
 - The MSGDLVSQ parameter of the source and target queues is the same.
9. Messages are moved within one or more syncpoints. The number of messages in each syncpoint is determined by the queue manager.
10. If anything prevents the moving of one or more messages, the command stops processing. This can mean that some messages have already been moved, while others remain on the source queue. Some of the reasons that prevent a message being moved are:
 - The target queue is full.
 - The message is too long for the target queue.
 - The message is persistent, but the target queue cannot store persistent messages (for example, because the queue is shared).
 - The page set is full.

PING CHANNEL

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
✓	✓	✓	✓	✓	✓	2CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

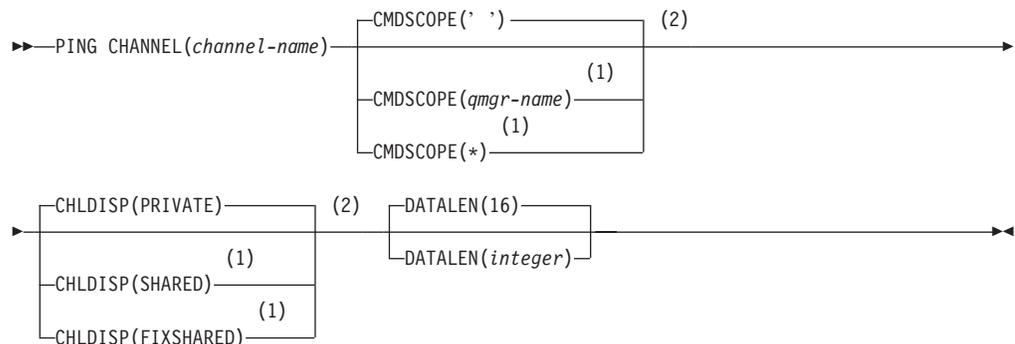
Use PING CHANNEL to test a channel by sending data as a special message to the remote queue manager, and checking that the data is returned. The data is generated by the local queue manager.

Notes:

1. On z/OS:
 - a. This is valid only for channels used for distributed queuing without CICS. If you are using CICS for distributed queuing, see the *WebSphere MQ Intercommunication* manual.
 - b. The command server and the channel initiator must be running.
2. Where there is both a locally defined channel and an auto-defined cluster-sender channel of the same name, the command applies to the locally defined channel. If there is no locally defined channel but more than one auto-defined cluster-sender channel, the command applies to the channel that was last added to the local queue manager’s repository.
3. On HP-UX and Linux it is not possible to ping an SSL channel using runmqsc.

This command can be used only for sender (SDR), server (SVR), and cluster-sender (CLUSSDR) channels (including those that have been defined automatically). It is not valid if the channel is running; however, it is valid if the channel is stopped or in retry mode.

Synonym: PING CHL

PING CHANNEL**Notes:**

- 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- 2 Valid only on z/OS.

PING CHANNEL

Parameter descriptions

(channel-name)

The name of the channel to be tested. This is required.

CMDSCOPE

This parameter applies to z/OS only and specifies how the command is executed when the queue manager is a member of a queue-sharing group.

If CHLDISP is set to SHARED, CMDSCOPE must be blank or the local queue manager.

' ' The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name only if you are using a queue-sharing group environment and if the command server is enabled.

* The command is executed on the local queue manager and is also passed to every active queue manager in the queue-sharing group. The effect of this is the same as entering the command on every queue manager in the queue-sharing group.

Note: The '*' option is not permitted if CHLDISP is FIXSHARED.

CHLDISP

This parameter applies to z/OS only and can take the values of:

- PRIVATE
- SHARED
- FIXSHARED

In conjunction with the various values of the CMDSCOPE parameter, this parameter controls two types of channel:

SHARED

A receiving channel is shared if it was started in response to an inbound transmission directed to the queue-sharing group.

A sending channel is shared if its transmission queue has a disposition of SHARED.

PRIVATE

A receiving channel is private if it was started in response to an inbound transmission directed to the queue manager.

A sending channel is private if its transmission queue has a disposition other than SHARED.

Note: This disposition is **not** related to the disposition set by the disposition of the queue-sharing group of the channel definition.

The combination of the CHLDISP and CMDSCOPE parameters also controls from which queue manager the channel is operated. The possible options are:

- On the local queue manager where the command is issued.

PING CHANNEL

- On another specific named queue manager in the group.
- On the most suitable queue manager in the group, determined automatically by the queue manager itself.

The various combinations of CHLDISP and CMDSCOPE are summarized in Table 8

Table 8. CHLDISP and CMDSCOPE for PING CHANNEL

CHLDISP	CMDSCOPE() or CMDSCOPE (local-qmgr)	CMDSCOPE (qmgr-name)	CMDSCOPE(*)
PRIVATE	Ping private channel on the local queue manager	Ping private channel on the named queue manager	Ping private channel on all active queue managers
SHARED	<p>Ping a shared channel on the most suitable queue manager in the group</p> <p>This might automatically generate a command using CMDSCOPE and send it to the appropriate queue manager. If there is no definition for the channel on the queue manager to which the command is sent, or if the definition is unsuitable for the command, the command fails.</p> <p>The definition of a channel on the queue manager where the command is entered might be used to determine the target queue manager where the command is actually run. Therefore, it is important that channel definitions are consistent. Inconsistent channel definitions might result in unexpected command behavior.</p>	Not permitted	Not permitted
FIXSHARED	Ping a shared channel on the local queue manager	Ping a shared channel on the named queue manager	Not permitted

DATALEN(*integer*)

The length of the data, in the range 16 through 32 768. This is optional.

PING QMGR

PING QMGR

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
✓	✓	✓	✓	✓	✓	

Use PING QMGR to test whether the queue manager is responsive to commands.

Note: If commands are issued to the queue manager by sending messages to the command server queue, this command causes a special message to be sent to it, consisting of a command header only, and checking that a positive reply is returned.

Synonym: PING QMGR

PING QMGR

▶▶—PING QMGR—▶▶

RECOVER BSDS

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
						12CR

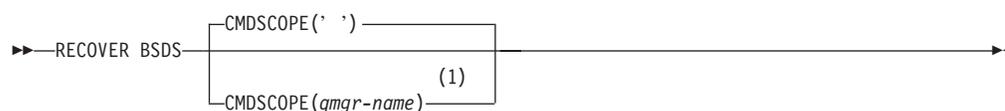
For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use RECOVER BSDS to reestablish a dual bootstrap data set (BSDS) after one has been disabled by a data set error.

Note: Command processing consists of allocating a data set with the same name as the one that encountered the error and copying onto the new data set the contents of the BSDS that does not have an error.

Synonym: REC BSDS

RECOVER BSDS



Notes:

- Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.

Parameter descriptions

CMDSCOPE

This parameter specifies how the command is executed when the queue manager is a member of a queue-sharing group.

CMDSCOPE cannot be used for commands issued from the first initialization input data set CSQINP1.

' '

The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

RECOVER CFSTRUCT

RECOVER CFSTRUCT

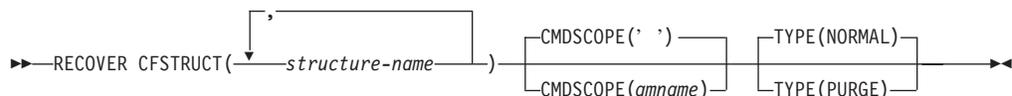
Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
						CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use RECOVER CFSTRUCT to initiate recovery of CF application structures. This command is valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.

Synonym: REC CFSTRUCT

RECOVER CFSTRUCT



Keyword and parameter descriptions

CFSTRUCT(*structure-names* ...)

A list of names of up to 256 CF application structures to be recovered.

See “BACKUP CFSTRUCT” on page 62 for the rules for CF application structure names.

CMDSCOPE

This parameter specifies how the command is executed when the queue manager is a member of a queue-sharing group.

CMDSCOPE cannot be used for commands issued from the first initialization input data set CSQINP1.

' '

The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

TYPE Specifies which variant of the RECOVER command is to be issued. Values are:

NORMAL

Perform a true recovery on the CF structures. This is the default.

PURGE

Recover to empty CF structures. Any messages in the CF structures are lost.

Usage notes

1. The command fails if TYPE(NORMAL) is specified and the application structure has not been flagged as in a FAILED state.
2. The command fails if any one of the specified structure names is not defined in the CFRM policy data set.
3. The recover process is both I/O and CPU intensive, and can only run on a single z/OS image. It should therefore be run on the most powerful or least busy system in the queue-sharing group.
4. The most likely failure is the loss of a complete CF and hence the simultaneous loss of all the application structures therein. If backup date and times are similar for each failed application structure, it is more efficient to recover them in a single RECOVER CFSTRUCT command.
5. This command fails if any of the specified CF structures is defined with either a CFLEVEL of less than 3, or with RECOVER set to NO.

REFRESH CLUSTER

REFRESH CLUSTER

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
✓	✓	✓	✓	✓	✓	2CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use REFRESH CLUSTER to discard all locally held cluster information (including any autodefined channels that are in doubt), and force it to be rebuilt. This enables you to perform a “cold-start” on the cluster.

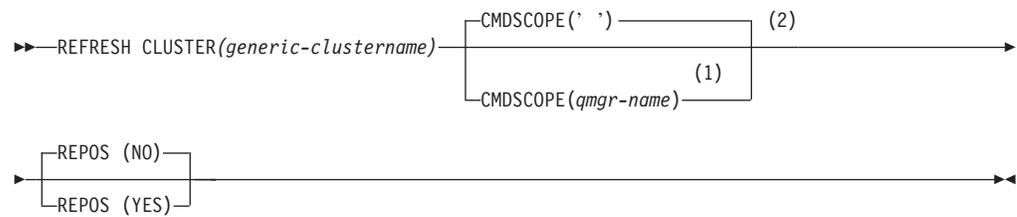
Notes:

1. It is not normally necessary to issue a REFRESH CLUSTER command except in one of the following circumstances:
 - Messages have been removed from either the SYSTEM.CLUSTER.COMMAND.QUEUE, or from another queue manager’s SYSTEM.CLUSTER.TRANSMIT.QUEUE, where the destination queue is SYSTEM.CLUSTER.COMMAND.QUEUE on the queue manager in question.
 - Issuing a REFRESH CLUSTER command has been recommended by IBM Service.
 - The CLUSRCVR channels were removed from a cluster, or their CONNAMES were altered on two or more full repository queue managers while they could not communicate.
 - The same name has been used for a CLUSRCVR channel on more than one queue manager in a cluster, and as a result, messages destined for one of the queue managers have been delivered to another. In this case, the duplicates should be removed, and then a REFRESH CLUSTER command should be issued on the single remaining queue manager that has the CLUSRCVR definition.
 - RESET CLUSTER ACTION(FORCEREMOVE) was issued in error.
 - The queue manager has been restarted from an earlier point in time than it last finished, (for example, by restoring backed up data.)
2. Issuing REFRESH CLUSTER does not correct mistakes in cluster definitions, nor is it necessary to issue the command after such mistakes have been corrected.
3. On UNIX systems, the command is valid only on AIX, HP-UX, Linux, and Solaris.
4. On z/OS, the command fails if the channel initiator has not been started.
5. On z/OS, any errors are reported to the console on the system where the channel initiator is running; they are not reported to the system that issued the command.
6. This command is **not** available within the reduced function form of WebSphere MQ for z/OS supplied with WebSphere Application Server.

Synonym: REF CLUSTER

REFRESH CLUSTER

REFRESH CLUSTER



Notes:

- 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- 2 Valid only on z/OS.

Parameter descriptions

(generic-clustername)

The name of the cluster to be refreshed. Alternatively the clustername can be specified as *'*'*. In this case the queue manager is refreshed in all the clusters that it is a member of. If used in conjunction with REPOS(YES), this has the additional effect of forcing the queue manager to restart its search for full repositories from the information in the local CLUSSDR definitions, even if the CLUSSDR connects the queue manager to several clusters.

This is required.

CMDSCOPE

This parameter applies to z/OS only and specifies how the command is executed when the queue manager is a member of a queue-sharing group.

' ' The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

REPOS

Specifies whether objects representing full repository cluster queue managers are also refreshed.

NO The queue manager retains knowledge of all cluster queue manager and cluster queues marked as locally defined, and all cluster queue managers that are marked as full repositories. In addition, if the queue manager is a full repository for the cluster, it retains knowledge of the other cluster queue managers in the cluster. Everything else is removed from the local copy of the repository and rebuilt from the other full repositories in the cluster. Cluster channels are not stopped if REPOS(NO) is used, a full repository uses its CLUSSDR channels to inform the rest of the cluster that it has completed its refresh.

This is the default.

REFRESH CLUSTER

YES Specifies that in addition to the REPOS(NO) behavior, objects representing full repository cluster queue managers are also refreshed. This option must not be used if the queue manager is itself a full repository, if it is a full repository, you must first alter it so that it is not a full repository for the cluster in question. The full repository location is recovered from the manually defined CLUSSDR definitions. After the refresh with REPOS(YES) has been issued, the queue manager can be altered so that it is once again a full repository, if required.

On z/OS, **N** and **Y** are accepted synonyms of **NO** and **YES**.

Usage Notes

1. Issuing REFRESH CLUSTER is disruptive to the cluster. It might make cluster objects invisible for a short period of time until the REFRESH processing completes. Specifically, if an application is using a queue that it has opened with MQOO_BIND_NOT_FIXED in effect, it might receive the return code MQRC_NO_DESTINATIONS_AVAILABLE. If the command is issued on a full repository queue manager, REFRESH CLUSTER might make a large volume of messages flow.
2. If cluster sender channels are running at the time REFRESH CLUSTER is issued, the refresh might not be complete until the channels have stopped and restarted. It is strongly recommended that all cluster sender channels for the cluster are stopped before the REFRESH CLUSTER command is issued. During the processing of the REFRESH CLUSTER command, the channel state might be recreated if the channel is not in doubt.
3. If you select REPOS(YES), you should check that all cluster sender channels in the relevant cluster are inactive or stopped before you issue the REFRESH CLUSTER command. If there are cluster sender channels running at the time the REFRESH CLUSTER command is processed, and they are used exclusively by the clusters being refreshed, and REPOS(YES) is used, the channels are stopped, by using the STOP CHANNEL command with MODE(FORCE) if necessary. This ensures that the refresh can remove the channel state, and that the channel runs with the refreshed version after the refresh has completed. If a channel's state cannot be deleted, for example because it is in doubt, or because it is also running as part of a another cluster, its state will not be new after the refresh, and it does not automatically restart if it was stopped.

Selecting REPOS(YES) on the sole working full repository queue manager in a cluster requires you to alter it to be a partial repository, with the result that there would be no full repository left. After the queue manager is refreshed and then restored to its status of a full repository, the other partial repositories would also have to be refreshed to restore a working cluster. If there is another working full repository in the cluster, it informs the other members of the cluster that the full repository executing the REFRESH CLUSTER command has resumed its role as a full repository, and no further action is needed.

REFRESH QMGR

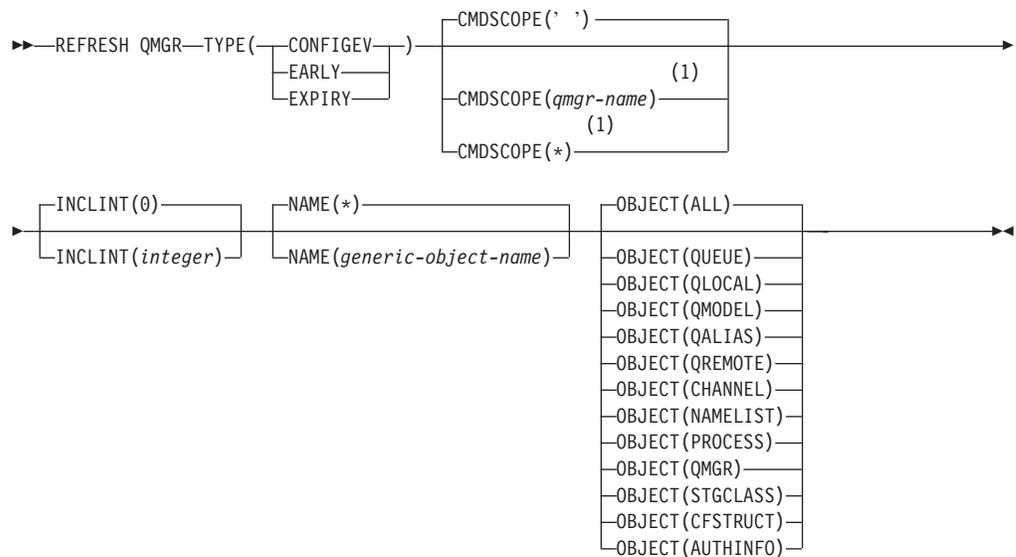
Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
						2CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use REFRESH QMGR to perform special operations on queue managers.

Synonym: None

REFRESH QMGR



Notes:

- 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.

Parameter descriptions

CMDSCOPE

This parameter applies to z/OS only and specifies how the command is executed when the queue manager is a member of a queue-sharing group.

CMDSCOPE must be blank, or the local queue manager, if QSGDISP is set to GROUP or SHARED.

' ' The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

REFRESH QMGR

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

- * The command is executed on the local queue manager and is also passed to every active queue manager in the queue-sharing group. The effect of this is the same as entering the command on every queue manager in the queue-sharing group.

This parameter is not valid with TYPE(EARLY).

INCLINT(*integer*)

Specifies a value in minutes defining a period immediately before the current time, and requests that only objects that have been created or changed within that period (as defined by the ALTDATA and ALTTIME attributes) are included. The value must be in the range zero through 999 999. A value of zero means there is no time limit (this is the default).

This parameter is valid only with TYPE(CONFIGEV).

NAME(*generic-object-name*)

Requests that only objects whose names match the one specified are included. A trailing asterisk (*) matches all object names with the specified stem followed by zero or more characters. An asterisk (*) on its own specifies all objects (this is the default). NAME is ignored if OBJECT(QMGR) is specified.

This parameter is not valid with TYPE(EARLY).

OBJECT(*objtype*)

Requests that only objects of the specified type are included. (Synonyms for object types, such as QL, can also be specified.) The default is ALL, to include objects of every type.

This parameter is valid only with TYPE(CONFIGEV).

TYPE This is required. Values are:

CONFIGEV

Requests that the queue manager generates a configuration event message for every object that matches the selection criteria specified by the OBJECT, NAME and INCLINT parameters. Matching objects defined with QSGDISP(QMGR) or QSGDISP(COPY) are always included. Matching objects defined with QSGDISP(GROUP) or QSGDISP(SHARED) are included only if the command is being executed on the queue manager where it is entered.

EARLY

Requests that the subsystem function routines (generally known as early code) for the queue manager replace themselves with the corresponding routines in the linkpack area (LPA).

You only need to use this command after you install new subsystem function routines (provided as corrective maintenance or with a new version or release of WebSphere MQ). This command instructs the queue manager to use the new routines.

See the *WebSphere MQ for z/OS System Setup Guide* for more information about WebSphere MQ early code routines.

EXPIRY

Requests that the queue manager performs a scan to discard expired messages for every queue that matches the selection criteria specified by the NAME parameter. (The scan is performed regardless of the setting of the EXPRYINT queue manager attribute.)

Note: If TYPE(EARLY) is specified, no other keywords are allowed and the command can be issued only from the z/OS console and only if the queue manager is not active.

Usage Notes

Issue this command with TYPE(CONFIGEV) after setting the CONFIGEV queue manager attribute to ENABLED, to bring the queue manager configuration up-to-date. To ensure that complete configuration information is generated, include all objects; if you have many objects, it might be preferable to use several commands, each with a different selection of objects, but such that all are included.

You can also use the command with TYPE(CONFIGEV) to recover from problems such as errors on the event queue. In such cases, use appropriate selection criteria, to avoid excessive processing time and event messages generation.

Issue the the command with TYPE(EXPIRY) at any time when you believe that a queue could contain numbers of expired messages.

REFRESH SECURITY

REFRESH SECURITY

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
	✓	✓		✓	✓	2CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

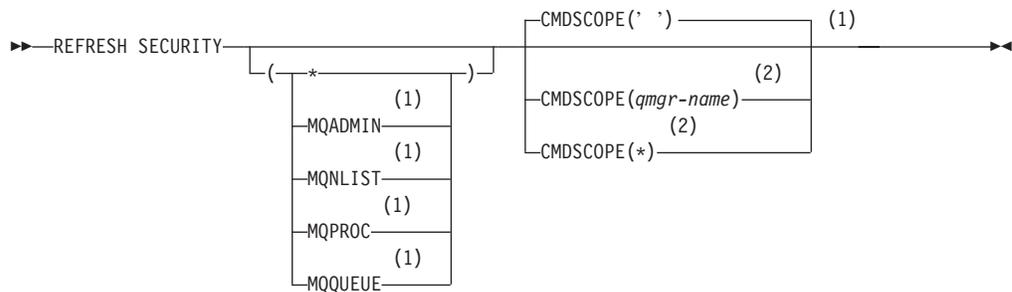
Use REFRESH SECURITY to carry out a security refresh.

On platforms other than z/OS, The REFRESH SECURITY command refreshes the list of authorizations held internally by the authorization service component.

Synonym: REF SEC

REBUILD SECURITY is another synonym for REFRESH SECURITY.

REFRESH SECURITY



Notes:

- 1 Valid only on z/OS.
- 2 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.

Parameter descriptions

This command refreshes WebSphere MQ in-storage ESM (external security manager, for example RACF) profiles. The in-storage profiles for the resources being requested are deleted. New entries are created when security checks for them are performed, and are validated when the user next requests access.

For z/OS, see the *WebSphere MQ for z/OS System Setup Guide* for more information about RACF commands you have to issue when you issue this command.

You must specify the resource class for which the security refresh is to be performed. The classes are:

* All resource classes.

MQADMIN

Administration type resources. Valid on z/OS only.

MQNLIST

Namelist resources. Valid on z/OS only.

MQPROC

Process resources. Valid on z/OS only.

MQQUEUE

Queue resources. Valid on z/OS only.

Note: If, when refreshing this class, it is determined that a security switch relating to one of the other classes has been changed, a refresh for that class also takes place.

CMDSCOPE

This parameter applies to z/OS only and specifies how the command is executed when the queue manager is a member of a queue-sharing group.

CMDSCOPE cannot be used for commands issued from the first initialization input data set CSQINP1.

' ' The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

* The command is executed on the local queue manager and is also passed to every active queue manager in the queue-sharing group. The effect of this is the same as entering the command on every queue manager in the queue-sharing group.

RESET CHANNEL

RESET CHANNEL

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
✓	✓	✓	✓	✓	✓	2CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

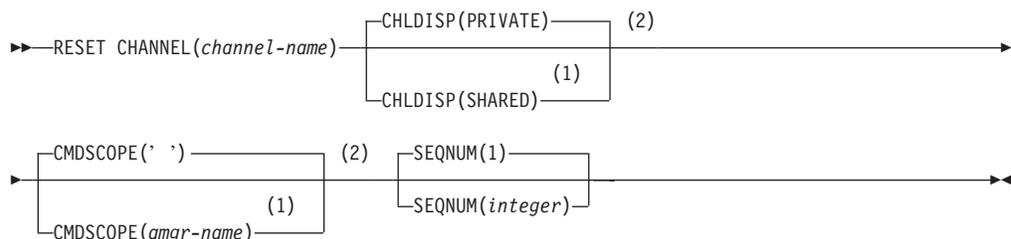
Use RESET CHANNEL to reset the message sequence number for a WebSphere MQ channel with, optionally, a specified sequence number to be used the next time that the channel is started.

Notes:

1. On z/OS:
 - a. This is valid only for channels used for distributed queuing without CICS. If you are using CICS for distributed queuing, see the *WebSphere MQ Intercommunication* manual.
 - b. The command server and channel initiator must be running.
2. This command can be issued to a channel of any type except SVRCONN and CLNTCONN channels, (including those that have been defined automatically). However, if it is issued to a sender, server or cluster-sender channel, then in addition to resetting the value at the end at which the command is issued, the value at the other (receiver, requester, or cluster-receiver) end is also reset to the same value the next time this channel is initiated (and resynchronized if necessary).
3. If the command is issued to a receiver, requester, or cluster-receiver channel, the value at the other end is *not* reset as well; this must be done separately if necessary.
4. Where there is both a locally defined channel and an auto-defined cluster-sender channel of the same name, the command applies to the locally defined channel. If there is no locally defined channel but more than one auto-defined cluster-sender channel, the command applies to the channel that was last added to the local queue manager’s repository.

Synonym: RESET CHL

RESET CHANNEL



Notes:

- 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- 2 Valid only on z/OS.

Parameter descriptions

(channel-name)

The name of the channel to be reset. This is required.

CHLDISP

This parameter applies to z/OS only and can take the values of:

- PRIVATE
- SHARED

In conjunction with the various values of the CMDSCOPE parameter, this parameter controls two types of channel:

SHARED

A receiving channel is shared if it was started in response to an inbound transmission directed to the queue-sharing group.

A sending channel is shared if its transmission queue has a disposition of SHARED.

PRIVATE

A receiving channel is private if it was started in response to an inbound transmission directed to the queue manager.

A sending channel is private if its transmission queue has a disposition other than SHARED.

Note: This disposition is **not** related to the disposition set by the disposition of the queue-sharing group of the channel definition.

The combination of the CHLDISP and CMDSCOPE parameters also controls from which queue manager the channel is operated. The possible options are:

- On the local queue manager where the command is issued.
- On another specific named queue manager in the group.

The various combinations of CHLDISP and CMDSCOPE are summarized in Table 9

Table 9. CHLDISP and CMDSCOPE for RESET CHANNEL

CHLDISP	CMDSCOPE() or CMDSCOPE (local-qmgr)	CMDSCOPE (qmgr-name)
PRIVATE	Reset private channel on the local queue manager	Reset private channel on the named queue manager

RESET CHANNEL

Table 9. *CHLDISP* and *CMDSCOPE* for *RESET CHANNEL* (continued)

CHLDISP	CMDSCOPE() or CMDSCOPE (local-qmgr)	CMDSCOPE (qmgr-name)
SHARED	<p>Reset a shared channel on all active queue managers.</p> <p>This might automatically generate a command using <i>CMDSCOPE</i> and send it to the appropriate queue managers. If there is no definition for the channel on the queue managers to which the command is sent, or if the definition is unsuitable for the command, the action fails there.</p> <p>The definition of a channel on the queue manager where the command is entered might be used to determine the target queue manager where the command is actually run. Therefore, it is important that channel definitions are consistent. Inconsistent channel definitions might result in unexpected command behavior.</p>	Not permitted

CMDSCOPE

This parameter applies to z/OS only and specifies how the command is executed when the queue manager is a member of a queue-sharing group.

If *CHLDISP* is set to *SHARED*, *CMDSCOPE* must be blank or the local queue manager.

‘ ‘ The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name only if you are using a queue-sharing group environment and if the command server is enabled.

SEQNUM(*integer*)

The new message sequence number, which must be in the range 1 through 999 999 999. This is optional.

RESET CLUSTER

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
✓	✓	✓	✓	✓	✓	2CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

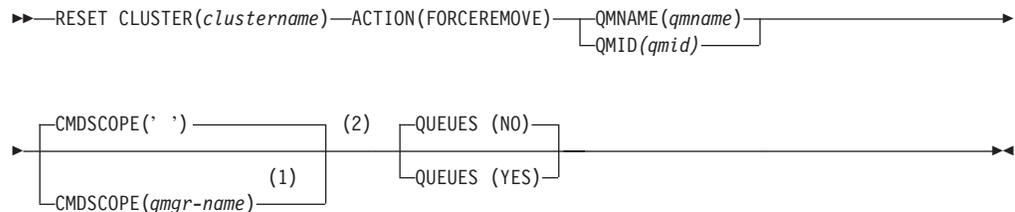
Use RESET CLUSTER to perform special operations on clusters.

Notes:

1. On UNIX systems, the command is valid only on AIX, HP-UX, Linux, and Solaris.
2. On z/OS, the command fails if the channel initiator has not been started.
3. On z/OS, any errors are reported to the console on the system where the channel initiator is running; they are not reported to the system that issued the command.
4. This command is **not** available within the reduced function form of WebSphere MQ for z/OS supplied with WebSphere Application Server.

Synonym: None

RESET CLUSTER



Notes:

- 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- 2 Valid only on z/OS.

Parameter descriptions

(clustername)

The name of the cluster to be reset. This is required.

ACTION(FORCEREMOVE)

Requests that the queue manager is forcibly removed from the cluster. This might be needed to ensure proper clean up after a queue manager has been deleted.

This action can be requested only by a repository queue manager.

CMDSCOPE

This parameter applies to z/OS only and specifies how the command is executed when the queue manager is a member of a queue-sharing group.

RESET CLUSTER

'' The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

QMID(*qmid*)

The identifier of the queue manager to be forcibly removed.

QMNAME(*qmname*)

The name of the queue manager to be forcibly removed.

QUEUES

Specifies whether cluster queues owned by the queue manager being force removed are removed from the cluster.

NO Cluster queues owned by the queue manager being force removed are not removed from the cluster. This is the default.

YES Cluster queues owned by the queue manager being force removed are removed from the cluster in addition to the cluster queue manager itself. The cluster queues are removed even if the cluster queue manager is not visible in the cluster, perhaps because it was previously force removed without the QUEUES option.

On z/OS, **N** and **Y** are accepted synonyms of **NO** and **YES**.

Usage notes

1. To avoid any ambiguity, it is preferable to use QMID rather than QMNAME. The queue manager identifier can be found by commands such as DISPLAY QMGR and DISPLAY CLUSQMGR.
If QMNAME is used, and there is more than one queue manager in the cluster with that name, the command is not actioned.
2. If you use characters other than those listed in "Rules for naming WebSphere MQ objects" on page 4 in your object or variable names, for example in QMID, you must enclose the name in quotes.
3. If you remove a queue manager from a cluster using this command, you can rejoin it to the cluster by issuing a REFRESH CLUSTER command. Wait at least 10 seconds before issuing a REFRESH CLUSTER command, because the repository ignores any attempt to rejoin the cluster within 10 seconds of a RESET CLUSTER command.

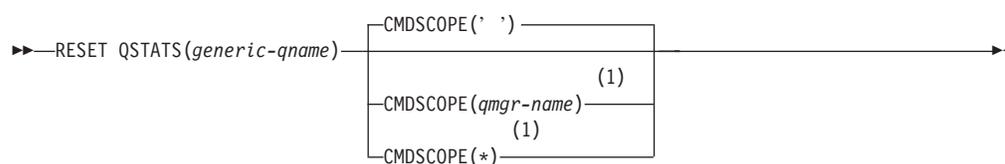
RESET QSTATS

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
						2CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use RESET QSTATS to report performance data for a queue and then to reset that data.

Synonym: None



Notes:

- 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.

Parameter descriptions

generic-qname

The name of the local queue with a disposition of QMGR, COPY, or SHARED, but not GROUP, whose performance data is to be reset.

A trailing asterisk (*) matches all queues with the specified stem followed by zero or more characters. An asterisk (*) on its own specifies all queues.

The names must all be defined to the local queue manager or queue-sharing group.

The performance data is returned in the same format as parameters returned by DISPLAY commands. The data is:

QSTATS

The name of the queue

QSGDISP

The disposition of the queue, that is, QMGR, COPY, or SHARED.

RESETINT

The number of seconds since the statistics were last reset.

HIQDEPTH

The peak queue depth since the statistics were last reset.

MSG SIN

The number of messages that have been added to the queue by MQPUT and MQPUT1 calls since the statistics were last reset.

The count includes messages added to the queue in units of work that have not yet been committed, but the count is not decremented if the units of work are subsequently backed out.

RESET QSTATS

MSGOUT

The number of messages removed from the queue by destructive (non-browse) MQGET calls since the statistics were last reset.

The count includes messages removed from the queue in units of work that have not yet been committed, but the count is not decremented if the units of work are subsequently backed out.

CMDSCOPE

This parameter specifies how the command is executed when the queue manager is a member of a queue-sharing group.

' ' The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

* The command is executed on the local queue manager and is also passed to every active queue manager in the queue-sharing group. The effect of this is the same as entering the command on every queue manager in the queue-sharing group.

Usage notes

1. If there is more than one queue with a name that satisfies the *generic q-name*, all those queues are reset.
2. Issue this command from an application, and not the z/OS console or its equivalent, to ensure that the statistical information is recorded.
3. Each queue manager in a queue-sharing group maintains its copy of the following performance statistics independently:

MSGIN

Incremented each time a message is put to the shared queue

MSGOUT

Incremented each time a message is removed from the shared queue

HIQDEPTH

Calculated by comparing its current value for HIQDEPTH with the new queue depth it obtains from the coupling facility during every put operation.

To obtain full statistics for a shared queue, you should specify CMDSCOPE(*) on RESET QSTATS to broadcast the command to all queue managers in the queue-sharing group.

The peak queue depth approximates to the maximum of all the returned HIQDEPTH values, and the total MQPUT and MQGET counts approximates to the sum of all the returned MSGIN and MSGOUT values respectively.

4. If the PERFMEV attribute of the queue manager is DISABLED, the command fails.

RESET TPIPE

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
						CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

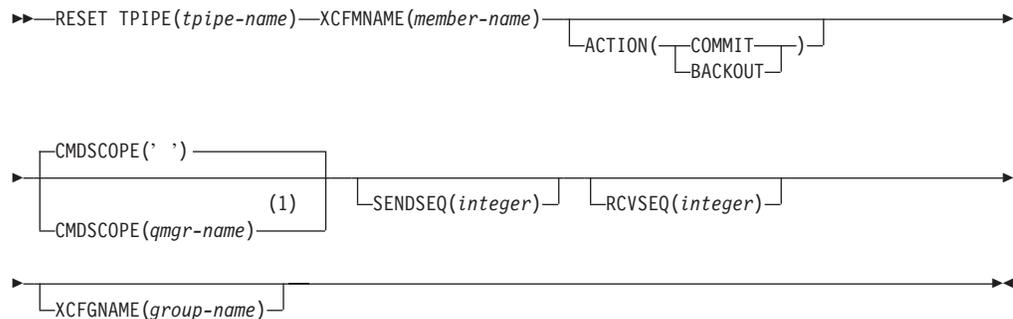
Use RESET TPIPE to reset the recoverable sequence numbers for an IMS Tpipe used by the WebSphere MQ-IMS bridge.

Notes:

1. This command is used in response to the resynchronization error reported in message CSQ2020E, and initiates resynchronization of the Tpipe with IMS.
2. The command fails if the queue manager is not connected to the specified XCF member.
3. The command fails if the queue manager is connected to the specified XCF member, but the Tpipe is open.

Synonym: There is no synonym for this command.

RESET TPIPE



Notes:

- 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.

Parameter descriptions

(tpipe-name)

The name of the Tpipe to be reset. This is required.

CMDSCOPE

This parameter specifies how the command is executed when the queue manager is a member of a queue-sharing group.

- ' ' The command is executed on the queue manager on which it was entered. This is the default value.

RESET TPIPE

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

ACTION

Specifies whether to commit or back out any unit of recovery associated with this Tpipe. This is required if there is such a unit of recovery reported in message CSQ2020E; otherwise it is ignored.

COMMIT

The messages from WebSphere MQ are confirmed as having already transferred to IMS; that is, they are deleted from the WebSphere MQ-IMS bridge queue.

BACKOUT

The messages from WebSphere MQ are backed out; that is, they are returned to the WebSphere MQ-IMS bridge queue.

SENDSEQ(*integer*)

| The new recoverable sequence number to be set in the Tpipe for messages
| sent by WebSphere MQ and to be set as the partner's receive sequence
| number. It must be hexadecimal and can be up to 8 digits long, and can
| optionally be enclosed by X' '. It is optional; if omitted, the sequence
| number is not changed but the partner's receive sequence is set to the
| WebSphere MQ send sequence number.

RCVSEQ(*integer*)

| The new recoverable sequence number to be set in the Tpipe for messages
| received by WebSphere MQ and to be set as the partner's send sequence
| number. It must be hexadecimal and can be up to 8 digits long, and can
| optionally be enclosed by X' '. It is optional; if omitted, the sequence
| number is not changed but the partner's send sequence is set to the
| WebSphere MQ receive sequence number.

XCFGNAME(*group-name*)

The name of the XCF group to which the Tpipe belongs. This is 1 through 8 characters long. It is optional; if omitted, the group name used is that specified in the OTMACON system parameter.

XCFMNAME(*member-name*)

The name of the XCF member within the group specified by XCFGNAME to which the Tpipe belongs. This is 1 through 16 characters long, and is required.

RESOLVE CHANNEL

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
✓	✓	✓	✓	✓	✓	2CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

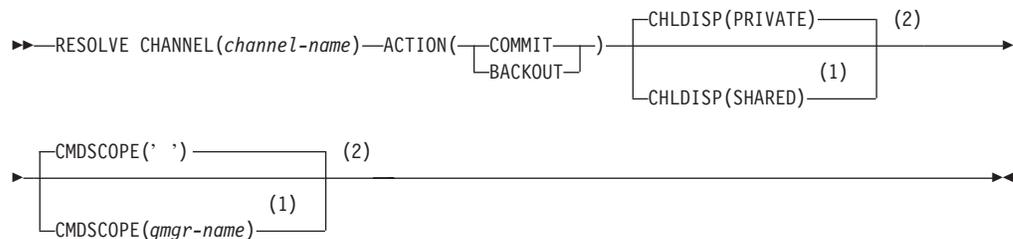
Use RESOLVE CHANNEL to request a channel to commit or back out in-doubt messages.

Notes:

1. On z/OS:
 - a. This is valid only for channels used for distributed queuing without CICS. If you are using CICS for distributed queuing, see the *WebSphere MQ Intercommunication* manual.
 - b. The command server and the channel initiator must be running.
2. This command can be used only for sender (SDR), server (SVR), and cluster-sender (CLUSSDR) channels (including those that have been defined automatically).
3. Where there is both a locally defined channel and an auto-defined cluster-sender channel of the same name, the command applies to the locally defined channel. If there is no locally defined channel but more than one auto-defined cluster-sender channel, the command applies to the channel that was last added to the local queue manager’s repository.

Synonym: RESOLVE CHL (RES CHL on z/OS)

RESOLVE CHANNEL



Notes:

- 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- 2 Valid only on z/OS.

Parameter descriptions

(channel-name)

The name of the channel for which in-doubt messages are to be resolved. This is required.

RESOLVE CHANNEL

ACTION

Specifies whether to commit or back out the in-doubt messages (this is required):

COMMIT

The messages are committed, that is, they are deleted from the transmission queue

BACKOUT

The messages are backed out, that is, they are restored to the transmission queue

CHLDISP

This parameter applies to z/OS only and can take the values of:

- PRIVATE
- SHARED

In conjunction with the various values of the CMDSCOPE parameter, this parameter controls two types of channel:

SHARED

A receiving channel is shared if it was started in response to an inbound transmission directed to the queue-sharing group.

A sending channel is shared if its transmission queue has a disposition of SHARED.

PRIVATE

A receiving channel is private if it was started in response to an inbound transmission directed to the queue manager.

A sending channel is private if its transmission queue has a disposition other than SHARED.

Note: This disposition is **not** related to the disposition set by the disposition of the queue-sharing group of the channel definition.

The combination of the CHLDISP and CMDSCOPE parameters also controls from which queue manager the channel is operated. The possible options are:

- On the local queue manager where the command is issued.
- On another specific named queue manager in the group.

The various combinations of CHLDISP and CMDSCOPE are summarized in Table 10

Table 10. CHLDISP and CMDSCOPE for RESOLVE CHANNEL

CHLDISP	CMDSCOPE() or CMDSCOPE (local-qmgr)	CMDSCOPE (qmgr-name)
PRIVATE	Resolve private channel on the local queue manager	Resolve private channel on the named queue manager

Table 10. CHLDISP and CMDSCOPE for RESOLVE CHANNEL (continued)

CHLDISP	CMDSCOPE() or CMDSCOPE (local-qmgr)	CMDSCOPE (qmgr-name)
SHARED	<p>Resolve a shared channel on all active queue managers.</p> <p>This might automatically generate a command using CMDSCOPE and send it to the appropriate queue manager. If there is no definition for the channel on the queue manager to which the command is sent, or if the definition is unsuitable for the command, the command fails.</p> <p>The definition of a channel on the queue manager where the command is entered might be used to determine the target queue manager where the command is actually run. Therefore, it is important that channel definitions are consistent. Inconsistent channel definitions might result in unexpected command behavior.</p>	Not permitted

CMDSCOPE

This parameter applies to z/OS only and specifies how the command is executed when the queue manager is a member of a queue-sharing group.

If CHLDISP is set to SHARED, CMDSCOPE must be blank or the local queue manager.

'' The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name only if you are using a queue-sharing group environment and if the command server is enabled.

Usage notes

This command is used when the other end of a link fails during the confirmation period, and for some reason it is not possible to reestablish the connection.

In this situation the sending end remains in doubt, as to whether or not the messages were received. Any outstanding units of work need to be resolved by being backed out or committed.

Care must be exercised in the use of this command. If the resolution specified is not the same as the resolution at the receiving end, messages can be lost or duplicated.

RESOLVE INDOUBT

RESOLVE INDOUBT

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
						2CR

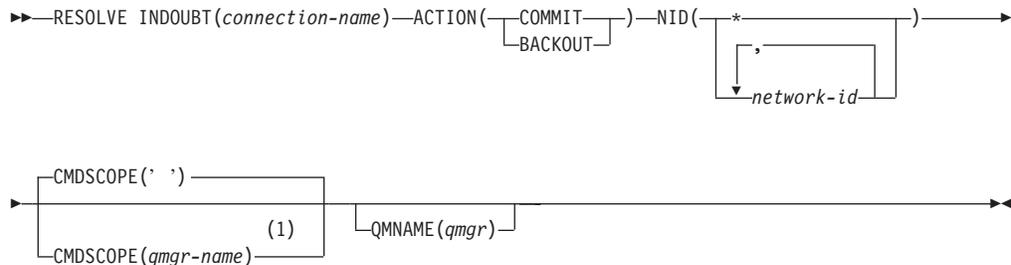
For an explanation of the symbols in the z/OS column, see "Using commands in z/OS" on page 4.

Use RESOLVE INDOUBT to resolve threads left in doubt because WebSphere MQ or a transaction manager could not resolve them automatically.

Note: This command does not apply to units of recovery associated with batch or TSO applications, unless you are using the RRS adapter.

Synonym: RES IND

RESOLVE INDOUBT



Notes:

- Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.

Parameter descriptions

(connection-name)

1 through 8 character connection name.

- For a CICS connection it is the CICS applid.
- For an IMS adaptor connection, it is the IMS control region job name.
- For an IMS bridge connection, it is the WebSphere MQ queue manager name.
- For an RRS connection, it is RRSBATCH.

ACTION

Specifies whether to commit or back out the in-doubt threads:

COMMIT

Commits the threads

BACKOUT

Backs out the threads

CMDSCOPE

This parameter specifies how the command is executed when the queue manager is a member of a queue-sharing group.

CMDSCOPE cannot be used for commands issued from the first initialization input data set CSQINP1.

'' The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

NID Network identifier. Specifies the thread or threads to be resolved.

(network-id)

This is as returned by the DISPLAY THREAD command, and is of the form *net-node.net-urid*, where:

- *net-node* identifies the originator of the thread, except RRSBATCH where it is omitted.
- *net-urid* is the hexadecimal number assigned to the unit of recovery by the originating system for the specific thread to be resolved.

When *net-node* is present there must be a period (.) between it and *net-urid*.

(*) Resolves all threads associated with the connection.

QMNAME

Specifies that if the designated queue manager is INACTIVE, WebSphere MQ should search information held in the coupling facility about units of work, performed by the indicated queue manager, that match the connection name and network identifier.

Matching units of work are either committed or backed out according to the ACTION specified.

Only the shared portion of the unit of work are resolved by this command.

As the queue manager is necessarily inactive, local messages are unaffected and remain locked until the queue manager restarts, or after restarting, connects with the transaction manager.

Examples:

```
RESOLVE INDOUBT(CICSA) ACTION(COMMIT) NID(CICSA.ABCDEF0123456789)
RESOLVE INDOUBT(CICSA) ACTION(BACKOUT) NID(*)
```

RESUME QMGR

RESUME QMGR

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
✓	✓	✓	✓	✓	✓	2CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

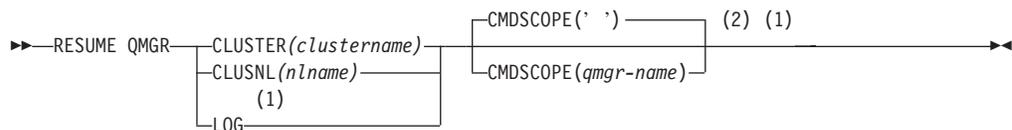
Use RESUME QMGR to inform other queue managers in a cluster that the local queue manager is available again for processing and can be sent messages. It reverses the action of the SUSPEND QMGR command.

Notes:

1. On UNIX systems, the command is valid only on AIX, HP-UX, Linux, and Solaris.
2. On z/OS, if you define CLUSTER or CLUSNL, the command fails if the channel initiator has not been started.
3. On z/OS, if you define CLUSTER or CLUSNL, any errors are reported to the console on the system where the channel initiator is running; they are not reported to the system that issued the command.
4. This command, with the CLUSTER and CLUSNL parameters, is **not** available on the reduced function form of WebSphere MQ for z/OS supplied with WebSphere Application Server.

Synonym: None

RESUME QMGR



Notes:

- 1 Valid only on z/OS.
- 2 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.

Parameter descriptions

CLUSTER(*clustername*)

The name of the cluster for which availability is to be resumed.

CLUSNL(*nlname*)

The name of the namelist specifying a list of clusters for which availability is to be resumed.

LOG

Resumes logging and update activity for the queue manager that was suspended by a previous SUSPEND QMGR command. Valid on z/OS only. If LOG is specified, the command can be issued only from the z/OS console.

CMDSCOPE

This parameter applies to z/OS only and specifies how the command is executed when the queue manager is a member of a queue-sharing group.

CMDSCOPE cannot be used for commands issued from the first initialization input data set CSQINP1.

‘ ‘ The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

RVERIFY SECURITY

RVERIFY SECURITY

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
						2CR

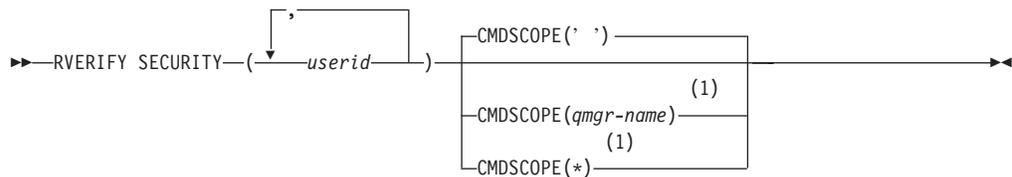
For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use RVERIFY SECURITY to set a reverification flag for all specified users. The user is reverified the next time that security is checked for that user.

Synonym: REV SEC

Note: REVERIFY SECURITY is another synonym for RVERIFY SECURITY.

RVERIFY SECURITY



Notes:

- Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.

Parameter descriptions

(userid...)

You must specify one or more user IDs. Each user ID specified is signed off and signed back on again the next time that a request is issued on behalf of that user that requires security checking.

CMDSCOPE

This parameter specifies how the command is executed when the queue manager is a member of a queue-sharing group.

CMDSCOPE cannot be used for commands issued from the first initialization input data set CSQINP1.

' ' The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

* The command is executed on the local queue manager and is also

RVERIFY SECURITY

passed to every active queue manager in the queue-sharing group. The effect of this is the same as entering the command on every queue manager in the queue-sharing group.

SET ARCHIVE

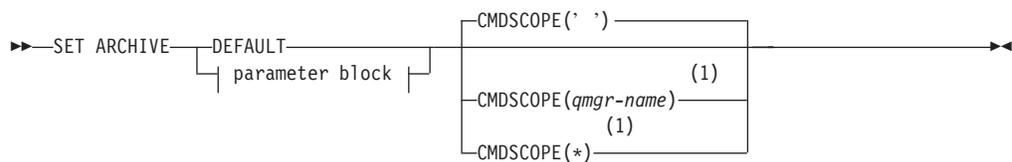
SET ARCHIVE

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
						12CR

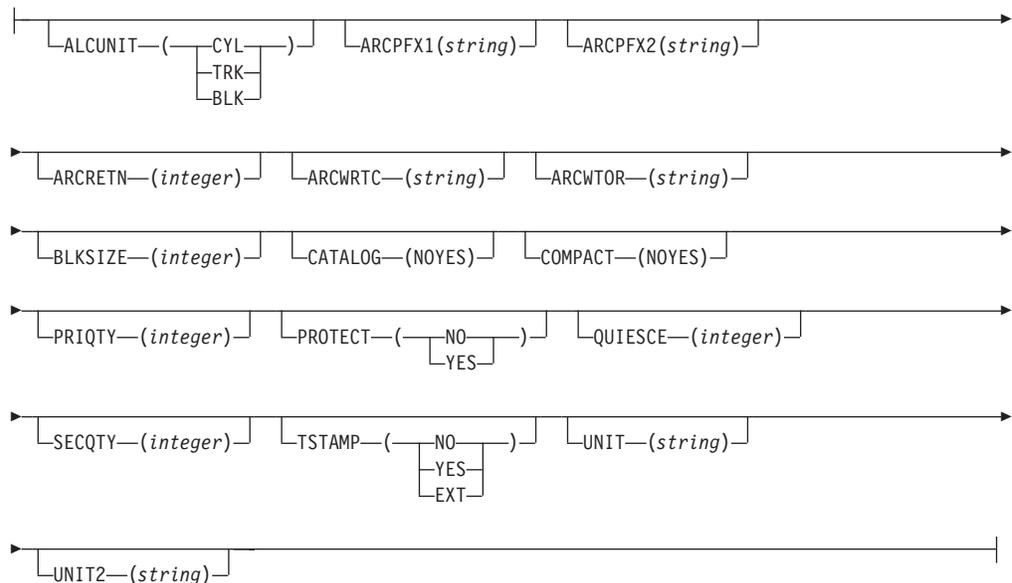
For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use SET ARCHIVE to dynamically change certain archive parameter values initially set by CSQ6ARVP.

Synonym: SET ARC



Parameter Block:



Notes:

- 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.

Parameter descriptions

CMDSCOPE

This parameter applies to z/OS only and specifies how the command is executed when the queue manager is a member of a queue-sharing group.

''

The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name, other than the queue manager on which it was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

*

The command is executed on the local queue manager and is also passed to every active queue manager in the queue-sharing group. The effect of this is the same as entering the command on every queue manager in the queue-sharing group.

DEFAULT

Resets the parameters to the values specified in the archive system parameters set by CSQ6ARVP.

Parameter block

For a full description of these parameters, see the *WebSphere MQ for z/OS System Setup Guide*.

Parameter block is any one or more of the following parameters that you want to change:

ALCUNIT

Specifies the unit in which primary and secondary space allocations are made.

Specify one of:

CYL Cylinders

TRK Tracks

BLK Blocks

ARCPFX1

Specifies the prefix for the first archive log data set name.

See the TSTAMP parameter on page 307 for a description of how the data sets are named and for restrictions on the length of ARCPFX1.

ARCPFX2

Specifies the prefix for the second archive log data set name.

See the TSTAMP parameter on page 307 for a description of how the data sets are named and for restrictions on the length of ARCPFX2.

ARCRETN

Specifies the retention period, in days, to be used when the archive log data set is created.

The parameter must be in the range zero through 9999.

Discarding archive log data sets is discussed in the *WebSphere MQ for z/OS System Administration Guide*.

ARCWRTC

Specifies the list of z/OS routing codes for messages about the archive log data sets to the operator.

Specify up to 14 routing codes, each with a value in the range 1 through 16. You must specify at least one code. Separate codes in the list by commas, not by blanks.

SET ARCHIVE

For more information about z/OS routing codes, see the *MVS Routing and Descriptor Codes* manual.

ARCWTOR

Specifies whether a message is to be sent to the operator and a reply is received before attempting to mount an archive log data set.

Other WebSphere MQ users might be forced to wait until the data set is mounted, but they are not affected while WebSphere MQ is waiting for the reply to the message.

Specify either:

YES The device needs a long time to mount archive log data sets. For example, a tape drive. (The synonym is **Y**.)

NO The device does not have long delays. For example, DASD. (The synonym is **N**.)

BLKSIZE

Specifies the block size of the archive log data set. The block size you specify must be compatible with the device type you specify in the UNIT parameter.

The parameter must be in the range 4 097 through 28 672. The value you specify is rounded up to a multiple of 4 096.

This parameter is ignored for data sets that are managed by the storage management subsystem (SMS).

CATALOG

Specifies whether archive log data sets are cataloged in the primary integrated catalog facility (ICF) catalog.

Specify either:

NO Archive log data sets are not cataloged. (The synonym is **N**.)

YES Archive log data sets are cataloged. (The synonym is **Y**.)

COMPACT

Specifies whether data written to archive logs is to be compacted. This option applies only to a 3480 or 3490 device that has the improved data recording capability (IDRC) feature. When this feature is turned on, hardware in the tape control unit writes data at a much higher density than normal, allowing for more data on each volume. Specify **NO** if you do not use a 3480 device with the IDRC feature or a 3490 base model, with the exception of the 3490E. Specify **YES** if you want the data to be compacted.

Specify either:

NO Do not compact the data sets. (The synonym is **N**.)

YES Compact the data sets. (The synonym is **Y**.)

PRIQTY

Specifies the primary space allocation for DASD data sets in ALCUNITS.

The value must be greater than zero.

This value must be sufficient for a copy of either the log data set or its corresponding BSDS, whichever is the larger.

PROTECT

Specifies whether archive log data sets are to be protected by discrete ESM (external security manager) profiles when the data sets are created.

Specify either:

NO Profiles are not created. (The synonym is **N**.)

YES Discrete data set profiles are created when logs are off-loaded. (The synonym is **Y**.) If you specify **YES**:

- ESM protection must be active for WebSphere MQ.
- The user ID associated with the WebSphere MQ address space must have authority to create these profiles.
- The TAPEVOL class must be active if you are archiving to tape.

Otherwise, off-loads will fail.

QUIESCE

Specifies the maximum time in seconds allowed for the quiesce when an **ARCHIVE LOG** command is issued with **MODE QUIESCE** specified.

The parameter must be in the range 1 through 999.

SECQTY

Specifies the secondary space allocation for DASD data sets in **ALCUNITs**.

The parameter must be greater than zero.

TSTAMP

Specifies whether the archive log data set name has a time stamp in it.

Specify either:

NO Names do not include a time stamp. (The synonym is **N**.) The archive log data sets are named:

arcpxi.Annnnnn

Where *arcpxi* is the data set name prefix specified by **ARCPFX1** or **ARCPFX2**. *arcpxi* can have up to 35 characters.

YES Names include a time stamp. (The synonym is **Y**.) The archive log data sets are named:

arcpxi.cyyddd.Thhmsst.Annnnnn

where *c* is 'D' for the years up to and including 1999 or 'E' for the year 2000 and later, and *arcpxi* is the data set name prefix specified by **ARCPFX1** or **ARCPFX2**. *arcpxi* can have up to 19 characters.

EXT Names include a time stamp. The archive log data sets are named:

arcpxi.Dyyyyddd.Thhmsst.Annnnnn

Where *arcpxi* is the data set name prefix specified by **ARCPFX1** or **ARCPFX2**. *arcpxi* can have up to 17 characters.

UNIT

Specifies the device type or unit name of the device that is used to store the first copy of the archive log data set.

Specify a device type or unit name of 1 through 8 characters.

If you archive to DASD, you can specify a generic device type with a limited volume range.

UNIT2

Specifies the device type or unit name of the device that is used to store the second copy of the archive log data sets.

Specify a device type or unit name of 1 through 8 characters.

If this parameter is blank, the value set for the **UNIT** parameter is used.

SET ARCHIVE

|
|

Usage notes

1. The new values will be used at the next archive log off-load.

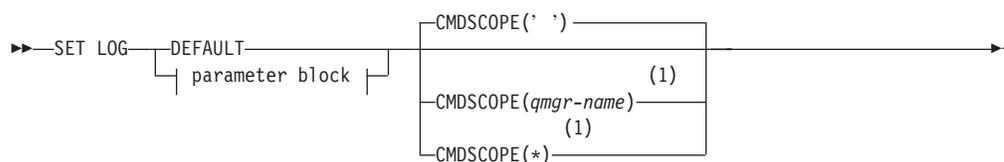
SET LOG

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
						12CR

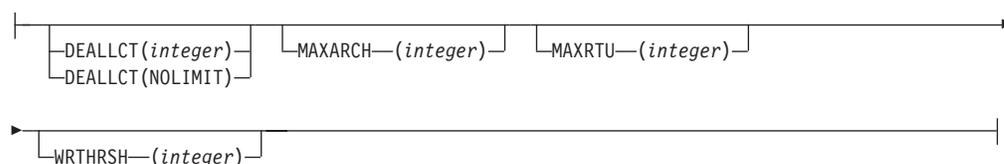
For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use SET LOG to dynamically change certain log system parameter values that were initially set by CSQ6LOGP.

Synonym: SET LOG



Parameter Block:



Notes:

- Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.

Parameter descriptions

CMDSCOPE

This parameter applies to z/OS only and specifies how the command is executed when the queue manager is a member of a queue-sharing group.

' '

The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name, other than the queue manager on which it was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

*

The command is executed on the local queue manager and is also passed to every active queue manager in the

SET LOG

queue-sharing group. The effect of this is the same as entering the command on every queue manager in the queue-sharing group.

DEFAULT Resets the parameters to the values specified in the archive system parameters set by CSQ6LOGP.

DEFAULT

Resets the parameters to the values specified in the archive system parameters set by CSQ6LOGP.

Parameter block

For a full description of these parameters, see the *WebSphere MQ for z/OS System Setup Guide*.

Parameter block is any one or more of the following parameters that you want to change:

DEALLCT

Specifies the length of time that an allocated archive read tape unit is allowed to remain unused before it is deallocated. You are recommended to specify the maximum possible values, within system constraints, for both options to achieve the optimum performance for reading archive tapes.

This, together with the MAXRTU parameter, allows WebSphere MQ to optimize archive log reading from tape devices.

The possible values are:

integer Specifies the maximum time in minutes, between zero and 1439. Zero means that a tape unit is deallocated immediately.

NOLIMIT or 1440

Indicates that the tape unit is never deallocated.

MAXARCH

Specifies the maximum number of archive log volumes that can be recorded in the BSDS. When this number is exceeded, recording begins again at the start of the BSDS.

Use a decimal number in the range 10 through 1000.

MAXRTU(*integer*)

Specifies the maximum number of dedicated tape units that can be allocated to read archive log tape volumes. This overrides the value for MAXRTU set by CSQ6LOGP in the archive system parameters.

This, together with the DEALLCT parameter, allows WebSphere MQ to optimize archive log reading from tape devices.

Notes:

1. The integer value can range from 1 to 99.
2. If the number specified is greater than the current specification, the maximum number of tape units allowable for reading archive logs increases.
3. If the number specified is less than the current specification, tape units that are not being used are immediately deallocated to adjust to the new value. Active, or premounted, tape units remain allocated.
4. A tape unit is a candidate for deallocation because of a lowered value only if there is no activity for the unit.

5. When you are asked to mount an archive tape and you reply "CANCEL", the MAXRTU value is reset to the current number of tape units.
For example, if the current value is 10, but you reply "CANCEL" to the request for the seventh tape unit, the value is reset to six.

WRTHRSH

Specifies the number of 4 KB output buffers to be filled before they are written to the active log data sets.

The larger the number of buffers, the less often the write takes place, and this improves the performance of WebSphere MQ. The buffers might be written before this number is reached if significant events, such as a commit point, occur.

Specify the number of buffers in the range 1 through 256.

Usage notes

1. Any changes to WRTHRSH take immediate effect.
2. Any change to MAXARCH takes effect for the next scheduled off-load (that is, not for any off-load in progress at the time the command is issued).

SET SYSTEM

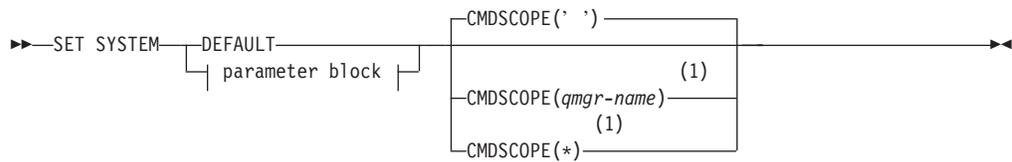
SET SYSTEM

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
						12CR

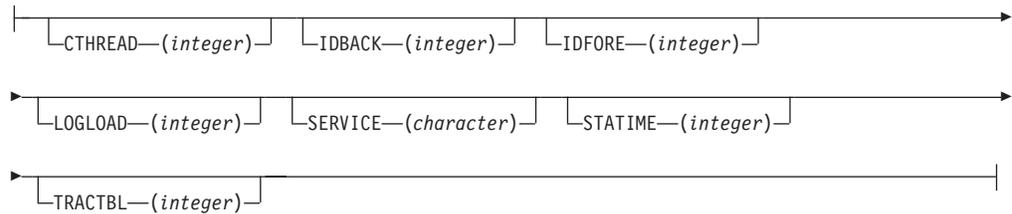
For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use SET SYSTEM to dynamically change certain system parameter values that were initially set by CSQ6SYSP.

Synonym: None



Parameter Block:



Notes:

- 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.

Parameter descriptions

CMDSCOPE

This parameter applies to z/OS only and specifies how the command is executed when the queue manager is a member of a queue-sharing group.

' '

The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name, other than the queue manager on which it was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

*

The command is executed on the local queue manager and is also passed to every active queue manager in the

queue-sharing group. The effect of this is the same as entering the command on every queue manager in the queue-sharing group.

DEFAULT

Resets the parameters to the values specified in the archive system parameters set by CSQ6SYSP.

Parameter block

For a full description of these parameters, see the *WebSphere MQ for z/OS System Setup Guide*.

Parameter block is any one or more of the following parameters that you want to change:

CTHREAD

Specifies the maximum number of connections from batch, CICS, IMS, TSO, and the channel initiator to a single instance of WebSphere MQ.

Specify a number in the range 1 through 32 767.

IDBACK

Specifies the maximum number of background batch and TSO connections to a single instance of WebSphere MQ.

Specify a number in the range 1 through 32 767.

IDFORE

Specifies the maximum number of TSO foreground connections to WebSphere MQ.

Specify a number in the range zero through 32 767.

LOGLOAD

Specifies the number of log records that WebSphere MQ writes between the start of one checkpoint and the next. WebSphere MQ starts a new checkpoint after the number of records that you specify has been written.

Specify a value in the range 200 through 16 000 000.

SERVICE

This parameter is reserved for use by IBM.

STATIME

Specifies the interval, in minutes, between consecutive gatherings of statistics.

Specify a number in the range zero through 1440.

If you specify a value of zero, both statistics data and accounting data is collected at the SMF data collection broadcast.

TRACTBL

Specifies the default size, in 4 KB blocks, of trace table where the global trace facility stores WebSphere MQ trace records.

Specify a value in the range 1 through 999.

Note: Storage for the trace table is allocated in the ECSA. Therefore, you must select this value with care.

Usage notes

1. The new values take immediate effect, with the possible exception of STATIME and TRACTBL.

SET SYSTEM

- | Changes to *STATIME* take effect when the current interval expires, unless the
| new interval is less than the unexpired portion of the current interval, in which
| case statistics are gathered immediately and the new interval then takes effect.
| For *TRACTBL*, if there is any trace currently in effect, the existing trace table
| continues to be used, and its size is unchanged. A new global trace table is only
| obtained for a new *START TRACE* command. If a new trace table is created
| with insufficient storage, the old trace table continues to be used, and the
| message *CSQW153E* is displayed.
- | 2. If *CTHREAD* is reduced, any currently active threads can still connect to the
| WebSphere MQ system. If *CTHREAD* is increased, waiting threads are
| connected, up to the point where the number of active threads equals
| *CTHREAD*.

START CHANNEL

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
✓	✓	✓	✓	✓	✓	2CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

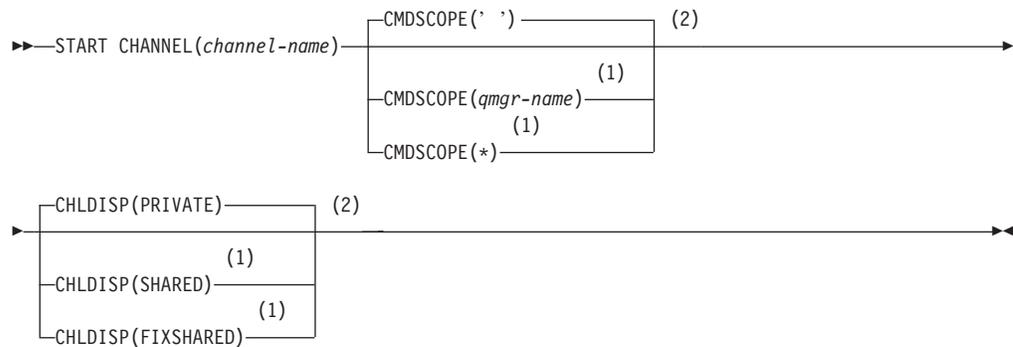
Use START CHANNEL to start a channel.

Notes:

1. On z/OS:
 - a. This is valid only for channels used for distributed queuing without CICS. If you are using CICS for distributed queuing, see the *WebSphere MQ Intercommunication* manual.
 - b. The command server and the channel initiator must be running.
2. This command can be issued to a channel of any type except CLNTCONN channels (including those that have been defined automatically). If, however, it is issued to a receiver (RCVR), server-connection (SVRCONN) or cluster-receiver (CLUSRCVR) channel, the only action is to enable the channel, not to start it.
3. Where there is both a locally defined channel and an auto-defined cluster-sender channel of the same name, the command applies to the locally defined channel. If there is no locally defined channel but more than one auto-defined cluster-sender channel, the command applies to the channel that was last added to the local queue manager’s repository.

Synonym: STA CHL

START CHANNEL



Notes:

- 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- 2 Valid only on z/OS.

START CHANNEL

Parameter descriptions

(channel-name)

The name of the channel definition to be started. This is required. The name must be that of an existing channel defined on this queue manager.

CHLDISP

This parameter applies to z/OS only and can take the values of:

- PRIVATE
- SHARED
- FIXSHARED

In conjunction with the various values of the CMDSCOPE parameter, this parameter controls two types of channel:

SHARED

A receiving channel is shared if it was started in response to an inbound transmission directed to the queue-sharing group.

A sending channel is shared if its transmission queue has a disposition of SHARED.

PRIVATE

A receiving channel is private if it was started in response to an inbound transmission directed to the queue manager.

A sending channel is private if its transmission queue has a disposition other than SHARED.

Note: This disposition is **not** related to the disposition set by the disposition of the queue-sharing group of the channel definition.

The combination of the CHLDISP and CMDSCOPE parameters also controls from which queue manager the channel is operated. The possible options are:

- On the local queue manager where the command is issued.
- On another specific named queue manager in the group.
- On every active queue manager in the group.
- On the most suitable queue manager in the group, determined automatically by the queue manager itself.

The various combinations of CHLDISP and CMDSCOPE are summarized in Table 11

Table 11. CHLDISP and CMDSCOPE for START CHANNEL

CHLDISP	CMDSCOPE() or CMDSCOPE (local-qmgr)	CMDSCOPE (qmgr-name)	CMDSCOPE(*)
PRIVATE	Start as a private channel on the local queue manager	Start as a private channel on the named queue manager	Start as a private channel on all active queue managers

Table 11. CHLDISP and CMDSCOPE for START CHANNEL (continued)

CHLDISP	CMDSCOPE() or CMDSCOPE (local-qmgr)	CMDSCOPE (qmgr-name)	CMDSCOPE(*)
SHARED	<p>For a shared SDR, RQSTR, and SVR channel, start as a shared channel on the most suitable queue manager in the group.</p> <p>For a shared RCVR and SVRCONN channel, start the channel as a shared channel on all active queue managers.</p> <p>For a shared CLUSSDR or CLUSRCVR channel, this option is not permitted.</p> <p>This might automatically generate a command using CMDSCOPE and send it to the appropriate queue managers. If there is no definition for the channel on the queue managers to which the command is sent, or if the definition is unsuitable for the command, the action fails there.</p> <p>The definition of a channel on the queue manager where the command is entered might be used to determine the target queue manager where the command is actually run. Therefore, it is important that channel definitions are consistent. Inconsistent channel definitions might result in unexpected command behavior.</p>	Not permitted	Not permitted
FIXSHARED	<p>For a shared SDR, RQSTR, and SVR channel, with a nonblank CONNAME, start as a shared channel on the local queue manager.</p> <p>For all other types, this option is not permitted.</p>	<p>For a shared SDR, RQSTR, and SVR with a nonblank CONNAME, start as a shared channel on the named queue manager.</p> <p>For all other types, this option is not permitted.</p>	Not permitted

Channels started with CHLDISP(FIXSHARED) are tied to the specific queue manager; if the channel initiator on that queue manager stops for any reason, the channels are not recovered by another queue manager in the group. See the *WebSphere MQ Intercommunication* manual for full details about SHARED and FIXSHARED channels.

CMDSCOPE

This parameter applies to z/OS only and specifies how the command is executed when the queue manager is a member of a queue-sharing group.

If CHLDISP is set to SHARED, CMDSCOPE must be blank or the local queue manager.

'' The command is executed on the queue manager on which it was entered. This is the default value.

START CHANNEL

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name only if you are using a queue-sharing group environment and if the command server is enabled.

- * The command is executed on the local queue manager and is also passed to every active queue manager in the queue-sharing group. The effect of this is the same as entering the command on every queue manager in the queue-sharing group.

This option is not permitted if CHLDISP is FIXSHARED.

START CHINIT

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
	✓	✓	✓	✓	✓	2CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use START CHINIT to start a channel initiator.

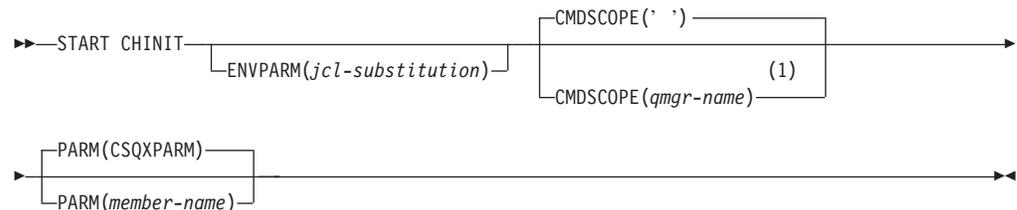
Note: On z/OS:

1. This is valid only for channels used for distributed queuing without CICS. If you are using CICS for distributed queuing, see the *WebSphere MQ Intercommunication* manual.
2. The command server must be running.

Synonym: STA CHI

WebSphere MQ for z/OS

START CHINIT

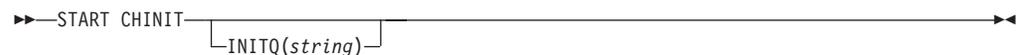


Notes:

- 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.

WebSphere MQ on other platforms

START CHINIT



Parameter descriptions

CMDSCOPE

This parameter applies to z/OS only and specifies how the command is executed when the queue manager is a member of a queue-sharing group.

'' The command is executed on the queue manager on which it was entered. This is the default value.

START CHINIT

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

ENVPARM(*jcl-substitution*)

The parameters and values to be substituted in the JCL procedure (xxxxCHIN, where xxxx is the queue manager name) that is used to start the channel initiator address space.

jcl-substitution

One or more character strings of the form keyword=value enclosed in single quotation marks. If you use more than one character string, separate the strings by commas and enclose the entire list in single quotation marks, for example ENVPARM('HLQ=CSQ,VER=520').

This parameter is valid only on z/OS.

INITQ(*string*)

The name of the initiation queue for the channel initiation process. This is the initiation queue that is specified in the definition of the transmission queue.

This must not be specified on z/OS (the initiation queue on z/OS is always SYSTEM.CHANNEL.INITQ). On AIX, Compaq OpenVMS, HP-UX, Linux, OS/2 Warp, OS/400, Solaris, and Windows, you can specify which initiation queue to use; if you do not specify this, SYSTEM.CHANNEL.INITQ is used. On other platforms it must be specified.

PARM(*member-name*)

The load module that contains the channel initiator initialization parameters. *member-name* is the name of a load module provided by the installation. The default is CSQXPARM, which is provided by WebSphere MQ.

This parameter is valid only on z/OS.

START CMDSERV

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
						12C

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use START CMDSERV to initialize the command server.

Synonym: STA CS

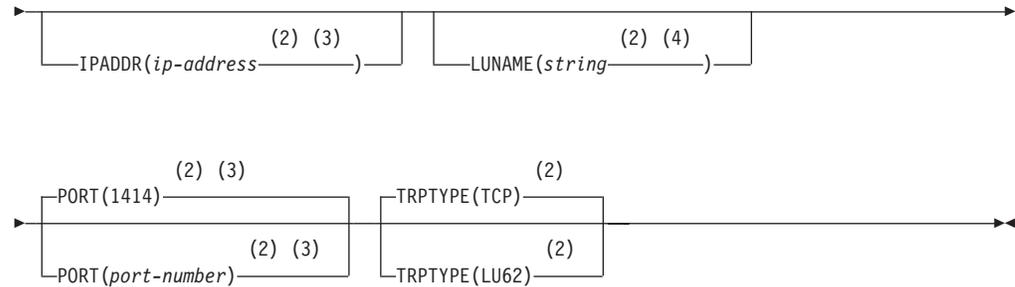
START CMDSERV

▶▶—START CMDSERV—▶▶

Usage notes

1. START CMDSERV starts the command server and allows it to process commands in the system-command input queue (SYSTEM.COMMAND.INPUT), mover commands, and commands using CMDSCOPE.
2. If this command is issued through the initialization files or through the operator console before work is released to the queue manager (that is, before the command server is started automatically), it overrides any earlier STOP CMDSERV command and allows the queue manager to start the command server automatically by putting it into an ENABLED state.
3. If this command is issued through the operator console while the command server is in a STOPPED or DISABLED state, it starts the command server and allows it to process commands on the system-command input queue, mover commands, and commands using CMDSCOPE immediately.
4. If the command server is in a RUNNING or WAITING state (including the case when the command is issued through the command server itself), or if the command server has been stopped automatically because the queue manager is closing down, no action is taken, the command server remains in its current state, and an error message is returned to the command originator.
5. START CMDSERV can be used to restart the command server after it has been stopped, either because of a serious error in handling command messages, or commands using the CMDSCOPE parameter.

START LISTENER



Notes:

- 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- 2 Valid only on z/OS.
- 3 Valid only for TRPTYPE(TCP).
- 4 Valid only for TRPTYPE(LU62).

Parameter descriptions

CMDSCOPE

This parameter applies to z/OS only and specifies how the command is executed when the queue manager is a member of a queue-sharing group.

'' The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

INDISP

Specifies the disposition of the inbound transmissions that are to be handled. The possible values are:

QMGR

Listen for transmissions directed to the queue manager. This is the default.

GROUP

Listen for transmissions directed to the queue-sharing group. This is allowed only if there is a shared queue manager environment.

IPADDR

IP address for TCP/IP specified in dotted decimal or alphanumeric form. This is valid only if the transmission protocol (TRPTYPE) is TCP/IP.

LUNAME(string)

The symbolic destination name for the logical unit as specified in the APPC side information data set. (This LU must be the same LU that is specified in the channel initiator parameters to be used for outbound transmissions.)

START LISTENER

This parameter is valid only for channels with a transmission protocol (TRPTYPE) of LU 6.2. A START LISTENER command that specifies TRPTYPE(LU62) must also specify the LUNAME parameter.

This parameter is supported only on z/OS.

PORT(*port-number*)

Port number for TCP. This is valid only if the transmission protocol (TRPTYPE) is TCP.

This parameter is supported only on z/OS.

TRPTYPE

Transport type to be used. This is optional.

TCP TCP. This is the default if TRPTYPE is not specified.

LU62 SNA LU 6.2.

This parameter is supported only on z/OS.

START TRACE

START TRACE

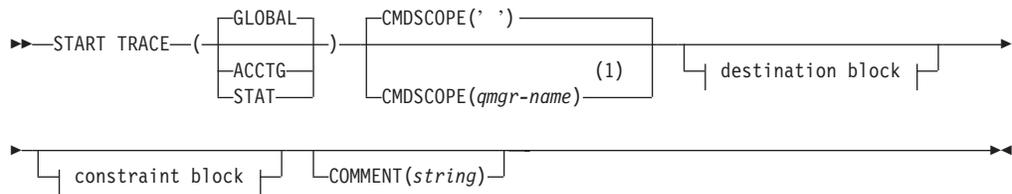
Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
						12CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use **START TRACE** to start traces. When you issue this command, a trace number is returned in message number CSQW130I. You can use this trace number (TNO) in **ALTER TRACE**, **DISPLAY TRACE**, and **STOP TRACE** commands.

Synonym: STA TRACE

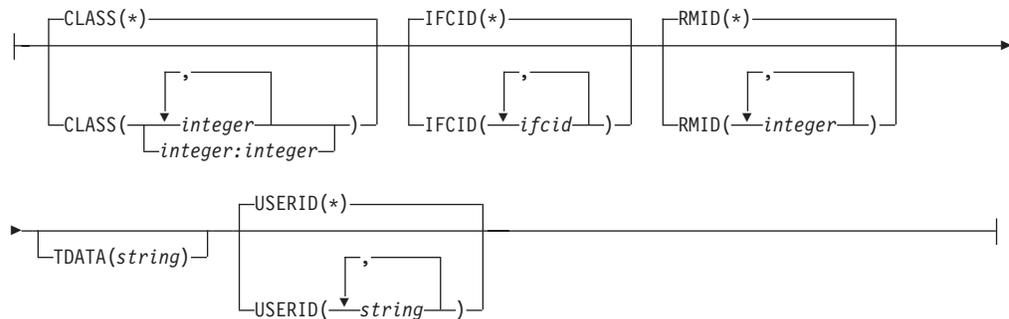
START TRACE



Destination block:



Constraint block:



Notes:

- Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.

Parameter descriptions

If you do not specify a trace type to be started, the default (GLOBAL) trace is started. The types are:

ACCTG

Collects accounting data that can be used to charge your customers for their use of your queue manager. The synonym is A.

Note: Accounting data can be lost if the accounting trace is started or stopped while applications are running. For information about the conditions that must be satisfied for successful collection of accounting data, see the *WebSphere MQ for z/OS System Setup Guide*.

GLOBAL

This includes data from the entire queue manager. The synonym is G.

STAT Collects statistical data broadcast by various components of WebSphere MQ, at time intervals that can be chosen during installation. The synonym is S.

CMDSCOPE

This parameter specifies how the command is executed when the queue manager is a member of a queue-sharing group.

CMDSCOPE cannot be used for commands issued from the first initialization input data set CSQINP1.

' ' The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

COMMENT(*string*)

Specifies a comment that is reproduced in the trace output record (except in the resident trace tables). It can be used to record why the command was issued.

string is any character string. It must be enclosed in single quotation marks if it includes a blank, comma, or special character.

Destination block

DEST

Specifies where the trace output is to be recorded. More than one value can be specified, but do not use the same value twice.

The meaning of each value is as follows:

GTF The z/OS Generalized Trace Facility (GTF). If used, the GTF must be started and accepting user (USR) records before the START TRACE command is issued.

RES A wrap-around table residing in the ECSA, or a data space for RMID 231.

START TRACE

SMF The System Management Facility (SMF). If used, the SMF must be functioning before the START TRACE command is issued. The SMF record numbers used by WebSphere MQ are 115 and 116.

SRV A serviceability routine reserved for IBM use only; not for general use.

Note: If your IBM support center need you to use this destination for your trace data they will supply you with module CSQWVSER. If you try to use destination SRV without CSQWVSER an error message is produced at the z/OS console when you issue the START TRACE command.

Allowed values, and the default value, depend on the type of trace started, as shown in the following table:

Table 12. Destinations allowed for each trace type

Type	GTF	RES	SMF	SRV
GLOBAL	Allowed	Default	No	Allowed
STAT	No	No	Default	Allowed
ACCTG	Allowed	No	Default	Allowed

Constraint block

The constraint block places optional constraints on the kinds of data collected by the trace. The allowed constraints depend on the type of trace started, as shown in the following table:

Table 13. Constraints allowed for each trace type

Type	CLASS	IFCID	RMID	USERID
GLOBAL	Allowed	Allowed	Allowed	Allowed
STAT	Allowed	No	No	No
ACCTG	Allowed	No	No	No

CLASS

Introduces a list of classes of data gathered. The classes allowed, and their meaning, depend on the type of trace started:

(*) Starts a trace for all classes of data.

(integer)

Any number in the class column of the table that follows. You can use more than one of the classes that are allowed for the type of trace started. A range of classes can be specified as *m:n* (for example, CLASS(01:03)). If you do not specify a class, the default is to start class 1.

Table 14. Descriptions of trace events and classes

Class	IFCID	Description
		Global trace
01	0000	Reserved for IBM service
02	0018	User parameter error detected in a control block
03	0016	User parameter error detected on entry to MQI
	0017	User parameter error detected on exit from MQI

Table 14. Descriptions of trace events and classes (continued)

Class	IFCID	Description
	0018	User parameter error detected in a control block
04	Various	Reserved for IBM service
		Statistics trace
01	0001	Subsystem statistics
	0002	Queue manager statistics
		Accounting trace
01	0003	The CPU time spent processing MQI calls and a count of MQPUT and MQGET calls
03	0025	Enhanced accounting and statistical data

IFCID

Reserved for IBM service.

RMID

Introduces a list of specific resource managers for which trace information is gathered. You cannot use this option for STAT or ACCTG traces.

(*) Starts a trace for all resource managers. This is the default. If any of the conditions below for RMID 231 are true, tracing does not start for that resource manager.

(integer)

The identifying number of any resource manager in Table 15. You can use up to 8 of the allowed resource manager identifiers; do not use the same one twice.

If the list of RMIDs includes 231 explicitly, the command fails if the channel initiator is not started or if one of the following is true:

- TRACE(STAT) or TRACE(ACCTG) is specified
- The list of destinations does not include RES
- This list of classes does not include 01 or 04

Also, comments are truncated to 120 characters.

If tracing for RMID 231 is started, it stops if the channel initiator is stopped.

Table 15. Resource Manager identifiers that are allowed

RMID	Resource manager
1	Initialization procedures
2	Agent services management
3	Recovery management
4	Recovery log management
6	Storage management
7	Subsystem support for allied memories
8	Subsystem support for subsystem interface (SSI) functions
12	System parameter management
16	Instrumentation commands, trace, and dump services
23	General command processing

START TRACE

Table 15. Resource Manager identifiers that are allowed (continued)

RMID	Resource manager
24	Message generator
26	Instrumentation accounting and statistics
148	Connection manager
197	CF manager
199	Functional recovery
200	Security management
201	Data management
211	Lock management
212	Message management
213	Command server
215	Buffer management
231	Channel Initiator
242	WebSphere MQ-IMS bridge
245	DB2 manager

TDATA

Reserved for IBM service.

USERID

Introduces a list of specific user IDs for which trace information is gathered. You cannot use this option for STAT or ACCTG traces.

(*) Starts a trace for all user IDs. This is the default.

(*userid*)

Names a user ID. You can use up to 8 user IDs; a separate trace is started for each.

STOP CHANNEL

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
✓	✓	✓	✓	✓	✓	2CR

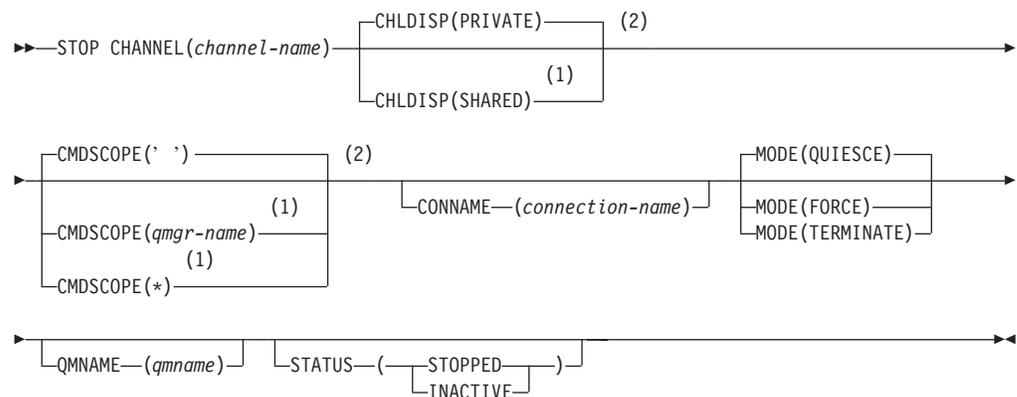
For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use STOP CHANNEL to stop a channel.

Notes:

1. On z/OS:
 - a. This is valid only for channels used for distributed queuing without CICS. If you are using CICS for distributed queuing, see the *WebSphere MQ Intercommunication* manual.
 - b. The command server and the channel initiator must be running.
2. Any channels in STOPPED state need to be started manually; they are not started automatically. See the *WebSphere MQ Intercommunication* manual for information about restarting stopped channels.
3. This command can be issued to a channel of any type except CLNTCONN channels (including those that have been defined automatically).
4. Where there is both a locally defined channel and an auto-defined cluster-sender channel of the same name, the command applies to the locally defined channel. If there is no locally defined channel but more than one auto-defined cluster-sender channel, the command applies to the channel that was last added to the local queue manager’s repository.

Synonym: STOP CHL

STOP CHANNEL**Notes:**

- 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.
- 2 Valid only on z/OS.

STOP CHANNEL

Parameter descriptions

(channel-name)

The name of the channel to be stopped. This is required.

CMDSCOPE

This parameter applies to z/OS only and specifies how the command is executed when the queue manager is a member of a queue-sharing group.

If CHLDISP is set to SHARED, CMDSCOPE must be blank or the local queue manager.

' ' The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name only if you are using a queue-sharing group environment and if the command server is enabled.

* The command is executed on the local queue manager and is also passed to every active queue manager in the queue-sharing group. The effect of this is the same as entering the command on every queue manager in the queue-sharing group.

CHLDISP

This parameter applies to z/OS only and can take the values of:

- PRIVATE
- SHARED

In conjunction with the various values of the CMDSCOPE parameter, this parameter controls two types of channel:

SHARED

A receiving channel is shared if it was started in response to an inbound transmission directed to the queue-sharing group.

A sending channel is shared if its transmission queue has a disposition of SHARED.

PRIVATE

A receiving channel is private if it was started in response to an inbound transmission directed to the queue manager.

A sending channel is private if its transmission queue has a disposition other than SHARED.

Note: This disposition is **not** related to the disposition set by the disposition of the queue-sharing group of the channel definition.

The combination of the CHLDISP and CMDSCOPE parameters also controls from which queue manager the channel is operated. The possible options are:

- On the local queue manager where the command is issued.
- On another specific named queue manager in the group.
- On every active queue manager in the group.

STOP CHANNEL

- On the most suitable queue manager in the group, determined automatically by the queue manager itself.

The various combinations of CHLDISP and CMDSCOPE are summarized in Table 16

Table 16. CHLDISP and CMDSCOPE for STOP CHANNEL

CHLDISP	CMDSCOPE() or CMDSCOPE (local-qmgr)	CMDSCOPE (qmgr-name)	CMDSCOPE(*)
PRIVATE	Stop as a private channel on the local queue manager.	Stop as a private channel on the named queue manager	Stop as a private channel on all active queue managers
SHARED	<p>For RCVR and SVRCONN channels, stop as shared channel on all active queue managers.</p> <p>For SDR, RQSTR, and SVR channels, stop as a shared channel on the queue manager where it is running. If the channel is in an inactive state (not running), or if it is in RETRY state because the channel initiator on which it was running has stopped, a STOP request for the channel is issued on the local queue manager.</p> <p>This might automatically generate a command using CMDSCOPE and send it to the appropriate queue manager. If there is no definition for the channel on the queue manager to which the command is sent, or if the definition is unsuitable for the command, the command fails.</p> <p>The definition of a channel on the queue manager where the command is entered might be used to determine the target queue manager where the command is actually run. Therefore, it is important that channel definitions are consistent. Inconsistent channel definitions might result in unexpected command behavior.</p>	Not permitted	Not permitted

CONNNAME(*connection-name*)

Connection name. Only channels matching the specified connection name are stopped

MODE

Specifies whether the current batch is allowed to finish in a controlled manner. This parameter is optional.

QUIESCE

Allows the current batch to finish processing, except on z/OS where the channel stops after the current message has finished

STOP CHANNEL

processing. (The batch is then ended and no more messages are sent, even if there are messages waiting on the transmission queue.)

For a receiving channel, if there is no batch in progress, the channel waits for either:

- The next batch to start
- The next heartbeat (if heartbeats are being used)

before it stops.

For server-connection channels, allows the current connection to end.

This is the default.

FORCE

Terminates transmission of any current batch. This is likely to result in in-doubt situations.

For server-connection channels, breaks the current connection, returning MQRC_CONNECTION_BROKEN.

TERMINATE

On z/OS this is synonymous with FORCE. On other platforms, this parameter terminates transmission of any current batch. This allows the command to actually terminate the channel thread or process.

For server-connection channels, breaks the current connection, returning MQRC_CONNECTION_BROKEN.

QMNAME(*qmname*)

Queue manager name. Only channels matching the specified remote queue manager are stopped

STATUS

Specifies the new state of any channels stopped by this command.

STOPPED

The channel is stopped. For a sender or server channel the transmission queue is set to GET(DISABLED) and NOTRIGGER.

This is the default if QMNAME or CONNAME are not specified.

INACTIVE

The channel is inactive. For a sender or server channel the transmission queue is unaffected.

This is the default if QMNAME or CONNAME are specified.

Usage notes

If you specify either QMNAME or CONNAME, STATUS must either be INACTIVE or not specified. Do not specify a QMNAME or CONNAME and STATUS(STOPPED). It is not possible to have a channel stopped for one partner but not for others. This sort of function can be provided by a channel security exit. For more information about channel exits, see the *WebSphere MQ Intercommunication* manual

STOP CHINIT

SHARED

Specifies whether the channel initiator should attempt to restart any active sending channels, started with CHLDISP(SHARED), that it owns on another queue manager. The possible values are:

RESTART

Shared sending channels are to be restarted. This is the default.

STOP Shared sending channels are not to be restarted, so will become inactive.

(Active channels started with CHLDISP(FIXSHARED) are not restarted, and always become inactive.)

Usage notes

1. When you issue the STOP CHINIT command, WebSphere MQ stops any channels that are running in the following way:

- Sender and server channels are stopped using STOP CHANNEL MODE(QUIESCE) STATUS(INACTIVE)
- All other channels are stopped using STOP CHANNEL MODE(FORCE)

See "STOP CHANNEL" on page 331 for information about what this involves.

2. You might receive communications-error messages as a result of issuing the STOP CHINIT command.

STOP CMDSERV

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
						12C

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use STOP CMDSERV to stop the command server.

Synonym: STOP CS

STOP CMDSERV

▶▶—STOP CMDSERV—◀◀

Usage notes

1. STOP CMDSERV stops the command server from processing commands in the system-command input queue (SYSTEM.COMMAND.INPUT), mover commands, and commands using CMDSCOPE.
2. If this command is issued through the initialization files or through the operator console before work is released to the queue manager (that is, before the command server is started automatically), it prevents the command server from starting automatically and puts it into a DISABLED state. It overrides an earlier START CMDSERV command.
3. If this command is issued through the operator console or the command server while the command server is in a RUNNING state, it stops the command server when it has finished processing its current command. When this happens, the command server enters the STOPPED state.
4. If this command is issued through the operator console while the command server is in a WAITING state, it stops the command server immediately. When this happens, the command server enters the STOPPED state.
5. If this command is issued while the command server is in a DISABLED or STOPPED state, no action is taken, the command server remains in its current state, and an error message is returned to the command originator.

STOP LISTENER

STOP LISTENER

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
						2CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

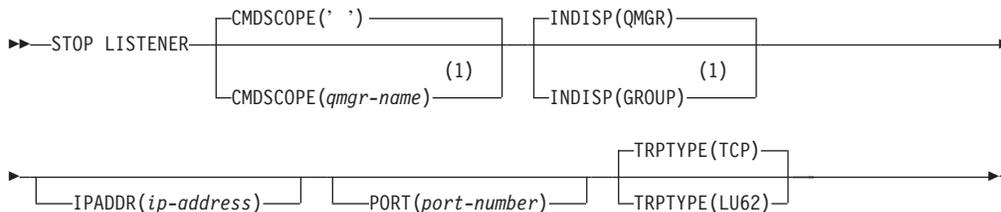
Use STOP LISTENER to stop a channel listener.

Notes:

1. This is valid only for channels used for distributed queuing without CICS. If you are using CICS for distributed queuing, see the *WebSphere MQ Intercommunication* manual.
2. The command server and the channel initiator must be running.
3. If a listener is listening on multiple addresses or ports, only the address and port combinations with the address, or port, specified are stopped.
4. If a listener is listening on all addresses for a particular port, a stop request for a specific IPADDR with the same port fails.
5. If neither an address nor a port is specified, all addresses and ports are stopped and the listener task ends.

Synonym: STOP LSTR

STOP LISTENER



Notes:

- 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.

Parameter descriptions

CMDSCOPE

This parameter specifies how the command is executed when the queue manager is a member of a queue-sharing group.

' ' The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

STOP LISTENER

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

INDISP

Specifies the disposition of the inbound transmissions that the listener handles. The possible values are:

QMGR

Handling for transmissions directed to the queue manager. This is the default.

GROUP

Handling for transmissions directed to the queue-sharing group. This is allowed only if there is a shared queue manager environment.

IPADDR

IP address for TCP/IP specified in dotted decimal or alphanumeric form. This is valid only if the transmission protocol (TRPTYPE) is TCP/IP.

PORT

The port number for TCP/IP. This is the port number on which the listener is to stop listening. This is valid only if the transmission protocol is TCP/IP.

TRPTYPE

Transmission protocol used. This is optional.

TCP TCP. This is the default if TRPTYPE is not specified.

LU62 SNA LU 6.2.

The listener stops in quiesce mode (it disregards any further requests).

STOP QMGR

STOP QMGR

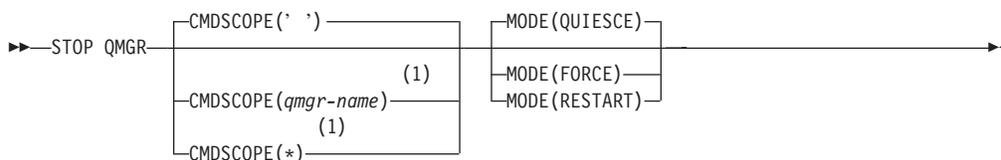
Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
						CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use STOP QMGR to stop the queue manager.

Synonym: There is no synonym for this command.

STOP QMGR



Notes:

- 1 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.

Parameter descriptions

The parameters are optional.

CMDSCOPE

This parameter specifies how the command is executed when the queue manager is a member of a queue-sharing group.

' ' The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

* The command is executed on the local queue manager and is also passed to every active queue manager in the queue-sharing group. The effect of this is the same as entering the command on every queue manager in the queue-sharing group.

MODE

Specifies whether programs currently being executed are allowed to finish.

QUIESCE

Allows programs currently being executed to finish processing. No new program is allowed to start. This is the default.

This option means that all connections to other address spaces must terminate before the queue manager stops. The system operator can determine whether any connections remain by using the DISPLAY THREAD command, and can cancel remaining connections using z/OS commands.

This option deregisters WebSphere MQ from the MVS automatic restart manager (ARM).

FORCE

Terminates programs currently being executed, including utilities. No new program is allowed to start. This option might cause in-doubt situations.

This option might not work if all the active logs are full, and log archiving has not occurred. In this situation you must issue the z/OS command CANCEL to terminate.

This option deregisters WebSphere MQ from the MVS automatic restart manager (ARM).

RESTART

Terminates programs currently being executed, including utilities. No new program is allowed to start. This option might cause in-doubt situations.

This option might not work if all the active logs are full, and log archiving has not occurred. In this situation you must issue the MVS command CANCEL to terminate.

This option does not deregister WebSphere MQ from ARM, so the queue manager is eligible for immediate automatic restart.

STOP TRACE

STOP TRACE

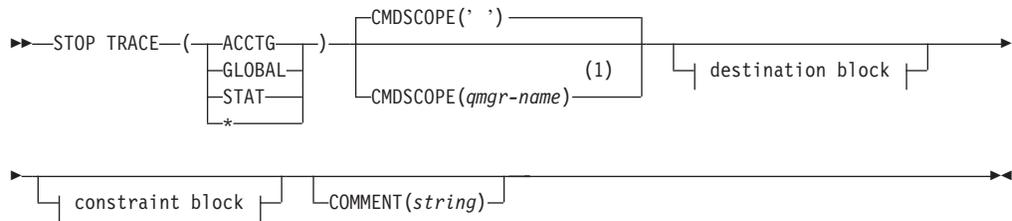
Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
						12CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

Use STOP TRACE to stop tracing.

Synonym: There is no synonym for this command.

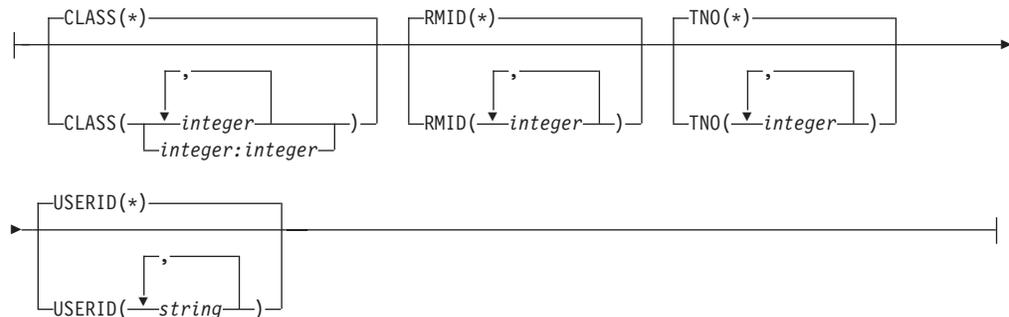
STOP TRACE



Destination block:



Constraint block:



Notes:

- Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.

Parameter descriptions

Each option that you use limits the effect of the command to active traces that were started using the same option, either explicitly or by default, with exactly the same parameter values.

You must specify a trace type or an asterisk. STOP TRACE(*) stops all active traces.

The trace types are:

ACCTG

Accounting data (the synonym is A)

Note: Accounting data can be lost if the accounting trace is started or stopped while applications are running. For information about the conditions that must be satisfied for successful collection of accounting data, see the *WebSphere MQ for z/OS System Setup Guide*.

GLOBAL

Service data from the entire queue manager (the synonym is G)

STAT Statistical data (the synonym is S)

* All active traces

CMDSCOPE

This parameter specifies how the command is executed when the queue manager is a member of a queue-sharing group.

CMDSCOPE cannot be used for commands issued from the first initialization input data set CSQINP1.

' ' The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

COMMENT(*string*)

Specifies a comment that is reproduced in the trace output record (except in the resident trace tables), and can be used to record why the command was issued.

string is any character string. It must be enclosed in single quotation marks if it includes a blank, comma, or special character.

Destination block

DEST

Limits the action to traces started for particular destinations. More than one value can be specified, but do not use the same value twice. If no value is specified, the list is not limited.

Possible values and their meanings are:

GTF The Generalized Trace Facility

RES A wrap-around table residing in the ECSA

STOP TRACE

SMF The System Management Facility
SRV A serviceability routine designed for problem diagnosis

Constraint block

CLASS(*integer*)

Limits the command to traces started for particular classes. See the START TRACE command for a list of allowed classes. A range of classes can be specified as *m:n* (for example, CLASS(01:03)). You cannot specify a class if you did not specify a trace type.

The default is CLASS(*), which does not limit the command.

RMID(*integer*)

Limits the command to traces started for particular resource managers. See the START TRACE command for a list of allowed resource manager identifiers.

Do not use this option with the STAT or ACCTG trace type.

If the list of RMIDs includes 231, explicitly or by default, the tracing for this resource manager is left unchanged if one of the following is true:

- The channel initiator is not active
- TRACE(GLOBAL) or TRACE(*) is not specified
- The list of destinations does not include RES
- This list of classes does not include 01 or 04

Also, comments are truncated to 120 characters.

The default is RMID(*), which does not limit the command.

TNO(*integer*)

Limits the command to particular traces, identified by their trace number (0 to 32). Up to 8 trace numbers can be used. If more than one number is used, only one value for USERID can be used.

0 is the trace that the channel initiator can start automatically. Traces 1 to 32 are those that can be started automatically by the queue manager, or manually, using the START TRACE command.

The default is TNO(*), which applies the command to all active traces with numbers 1 to 32, but **not** to the 0 trace. You can stop trace number 0 only by specifying it explicitly.

USERID(*string*)

Limits the action of the STOP TRACE to traces started for particular user ID. Up to 8 user IDs can be used. If more than one user ID is used, only one value can be used for TNO. Do not use this option with STAT.

The default is USERID(*), which does not limit the command.

SUSPEND QMGR

Compaq NSK	Compaq OpenVMS	OS/400	OS/2 Warp	UNIX systems	Windows	z/OS
✓	✓	✓	✓	✓	✓	2CR

For an explanation of the symbols in the z/OS column, see “Using commands in z/OS” on page 4.

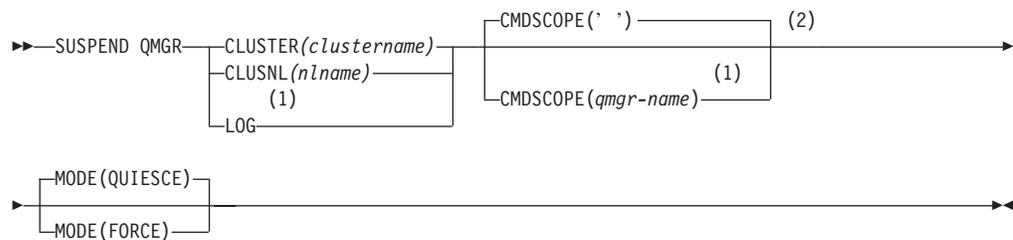
Use SUSPEND QMGR to inform other queue managers in a cluster that the local queue manager is not available for processing and cannot be sent messages, or to suspend logging and update activity for the queue manager until a subsequent RESUME QMGR command is issued. Its action can be reversed by the RESUME QMGR command.

Notes:

1. On UNIX systems, the command is valid only on AIX, HP-UX, Linux, and Solaris.
2. On z/OS, if you define CLUSTER or CLUSNL, the command fails if the channel initiator has not been started.
3. On z/OS, if you define CLUSTER or CLUSNL, any errors are reported to the console on the system where the channel initiator is running; they are not reported to the system that issued the command.
4. This command, with the CLUSTER and CLUSNL parameters, is **not** available on the reduced function form of WebSphere MQ for z/OS supplied with WebSphere Application Server.

Synonym: None

SUSPEND QMGR



Notes:

- 1 Valid only on z/OS.
- 2 Valid only on full function WebSphere MQ for z/OS when the queue manager is a member of a queue-sharing group.

Parameter descriptions

CLUSTER(clustername)

The name of the cluster to suspend availability for.

CLUSNL(nlname)

The name of the namelist specifying a list of clusters to suspend availability for.

SUSPEND QMGR

LOG Suspends logging and update activity for the queue manager until a subsequent RESUME request is issued. Any unwritten log buffers are externalized, a system checkpoint is taken (non-data sharing environment only), and the BSDS is updated with the high-written RBA before the update activity is suspended. A highlighted message (CSQJ372I) is issued and remains on the console until update activity has been resumed. Valid on z/OS only. If LOG is specified, the command can be issued only from the z/OS console.

This option is not allowed when a system quiesce is active by either the ARCHIVE LOG or STOP QMGR command.

Update activity remains suspended until a RESUME QMGR LOG or STOP QMGR command is issued.

This command should not be used during periods of high activity, or for long periods of time. Suspending update activity can cause timing related events such as lock time outs or WebSphere MQ diagnostics dumps when delays are detected.

CMDSCOPE

This parameter applies to z/OS only and specifies how the command is executed when the queue manager is a member of a queue-sharing group.

CMDSCOPE cannot be used for commands issued from the first initialization input data set CSQINP1.

'' The command is executed on the queue manager on which it was entered. This is the default value.

qmgr-name

The command is executed on the queue manager you specify, providing the queue manager is active within the queue-sharing group.

You can specify a queue manager name, other than the queue manager on which the command was entered, only if you are using a queue-sharing group environment and if the command server is enabled.

MODE

Specifies how the suspension of availability is to take effect:

QUIESCE

Other queue managers in the cluster are advised that the local queue manager should not be sent further messages.

FORCE

All inbound channels to other queue managers in the cluster are stopped forcibly. This occurs only if the queue manager has also been forcibly suspended from all other clusters to which the channel belongs.

The MODE keyword is allowed only with CLUSTER or CLUSNL. It is not allowed with LOG.

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