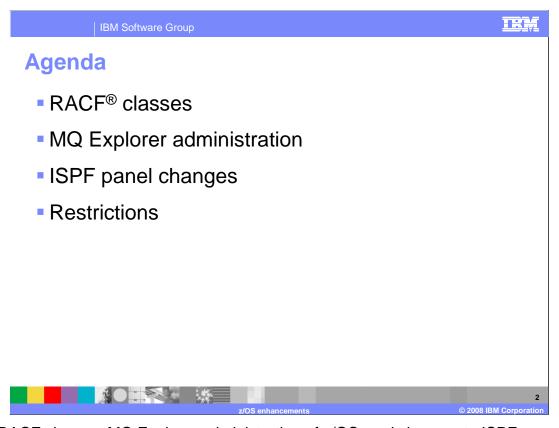
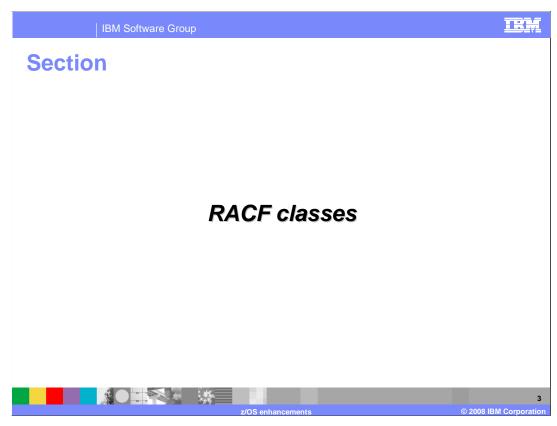


This module presents the enhancements to z/OS in WebSphere MQ V7.

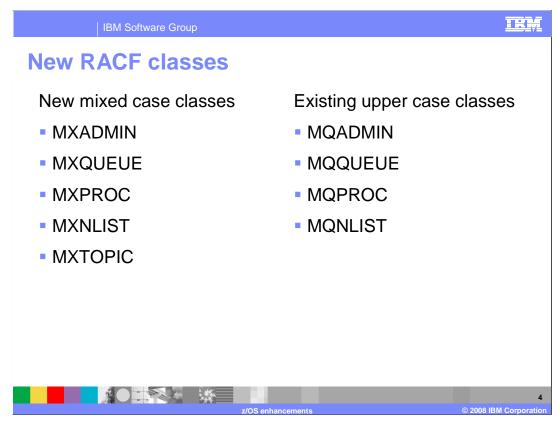
zOS_Specifics.ppt Page 1 of 20



New RACF classes, MQ Explorer administration of z/OS, and changes to ISPF are discussed.



.There are changes to RACF to support mixed case profiles.



Protecting mixed case resources before WebSphere MQ V7 required the use of generic profiles. In WebSphere MQ V7 you can protect these resources by defining mixed case profiles in the appropriate mixed case RACF classes.

The new mixed case RACF classes and the corresponding upper case classes are shown here. MXTOPIC is new to support topic objects. There is no uppercase only class for topic objects, that is no MQTOPIC class. MXTOPIC is used whether mixed or upper case is selected.



There is a new queue manager parameter, SCYCASE which determines whether upper case only or mixed case profiles are used. The queue manager's initial default setting is UPPER. The REFRESH SECURITY command can be used to change to MIXED. Alternatively, you can recycle the queue manager.

The REFRESH SECURITY command is enhanced to allow these new classes to be specified.

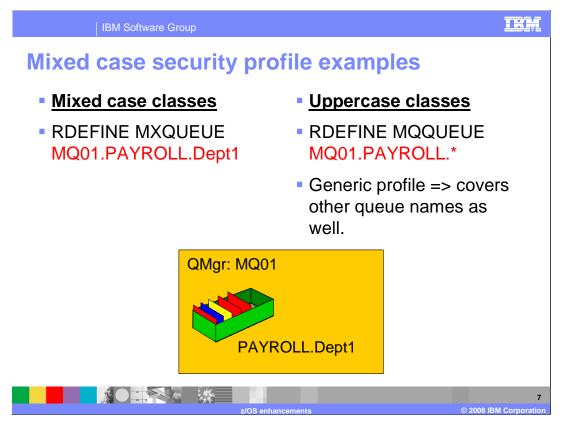
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Uppercase only profiles

- Switch profiles
- All high-level qualifiers (HLQ) including subsystem and Queue-Sharing Group identifiers
- ▶ Profiles for SYSTEM objects
- Profiles for default objects
- ▶ The MQCMDS class; all command profiles are uppercase only
- ▶ The MQCONN class; all connection profiles are uppercase only
- ▶ RESLEVEL profiles
- ▶ The 'object' qualification in command resource profiles; for example
 - hlq.QUEUE.queuename
 - resource name only is mixed case
- Dynamic queue profiles hlq.CSQOREXX.*, hlq.CSQUTIL.*, and CSQXCMD.*
- ▶ The 'CONTEXT' part of the hlq.CONTEXT.resourcename

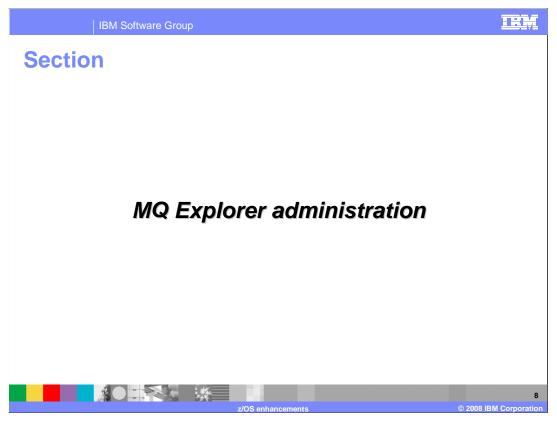


There are some profiles, or parts of profiles, that remain uppercase only as the values are provided by WebSphere MQ. These are listed here.



The example on the left shows a queue called PAYROLL.Dept1 on queue manager MQ01. This queue name is mixed case. If you are using mixed case classes you can define a profile in the WebSphere MQ RACF class MXQUEUE as shown here.

On the right is an example of defining a profile for this mixed case queue name when using uppercase classes. The MQ RACF class MQQUEUE must be used and must be a generic definition. This will cover all queue names beginning with MQ01.PAYROLL, not just MQ01.PAYROLL.Dept1.



In previous versions of WebSphere MQ, the z/OS Client Attachment Feature (CAF) was required if you wanted to administer MQ using MQ Explorer.

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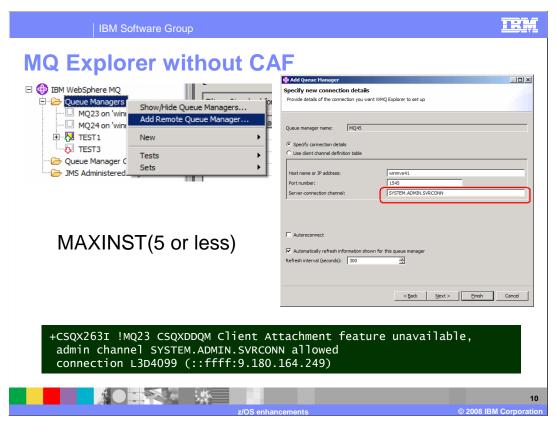
MQ Explorer without client attach feature

- z/OS can use up to five free client attachments to administer with MQ Explorer
- Must use SYSTEM.ADMIN.SVRCONN channel
- Default MAXINST(999999999)
- Must change MAXINST to five or less

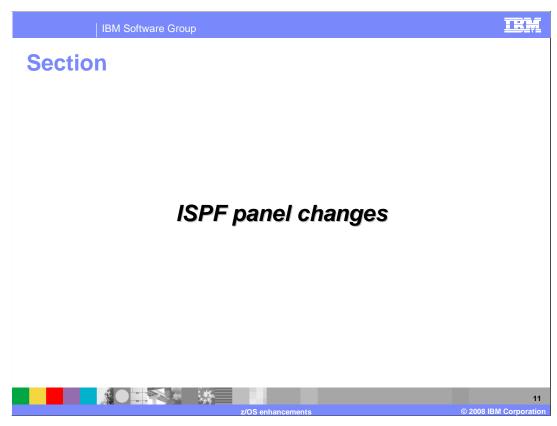


In WebSphere MQ V7, z/OS users can create five "free" client attachments for use with MQ Explorer. These attachments must use the channel name SYSTEM.ADMIN.SVRCONN which is the default channel name used by the MQ Explorer.

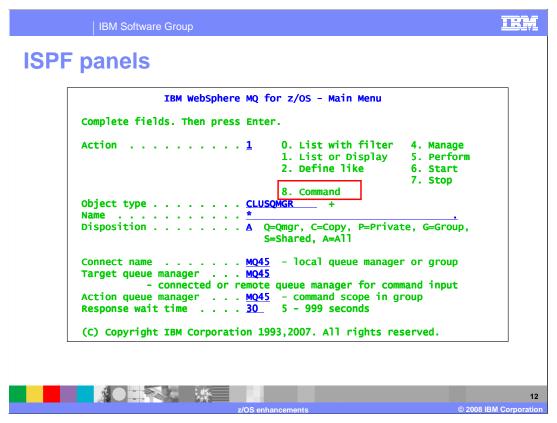
By default, server-connection channels are defined with the maximum instances. This definition will not allow any free attachments to connect to the queue manager. Any number greater than five is interpreted as zero. To use the free client attachments, you must first alter the server-connection channel definition to have MAXINST set to five or less. Ensure that your server-connection channel is secured by your enterprise policies.



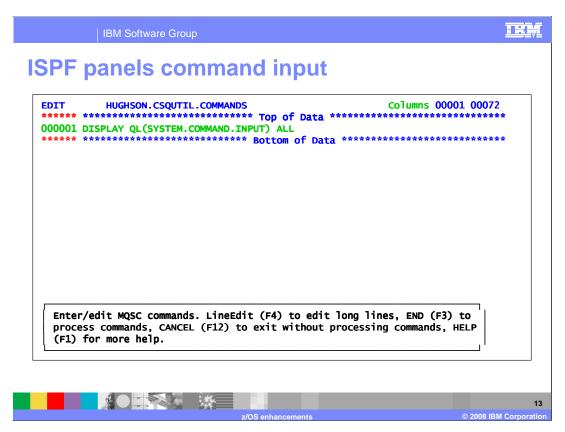
When channels are being allowed in without the client attach feature, message CSQX263I is issued. Message CSQX260E is issued if the connection is not allowed.



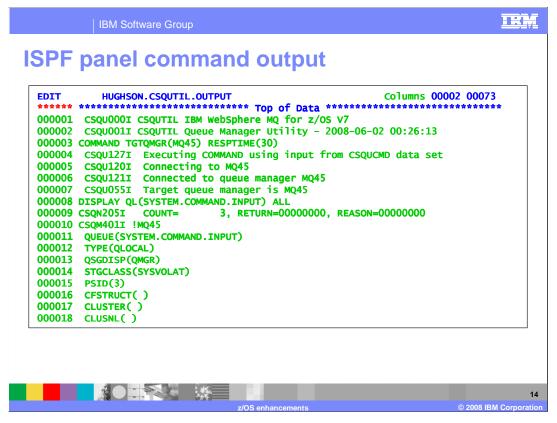
This section describes changes to MQ ISPF panels.



Existing panels now show new attributes. There are no new panels for new objects and commands like topic objects and subscription commands. The 24x80 panel is not large enough to effectively display, for example, a 10K topic string. The WebSphere MQ Explorer GUI is an alternative. There is also a command selection from the ISPF panel shown here.



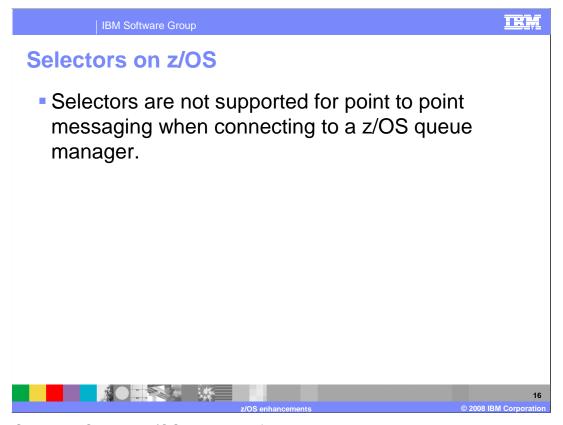
The ISPF panels have been enhanced to allow any MQSC command to be entered in the same way it is in CSQUTIL program. The panel also checks the syntax of the command for errors.



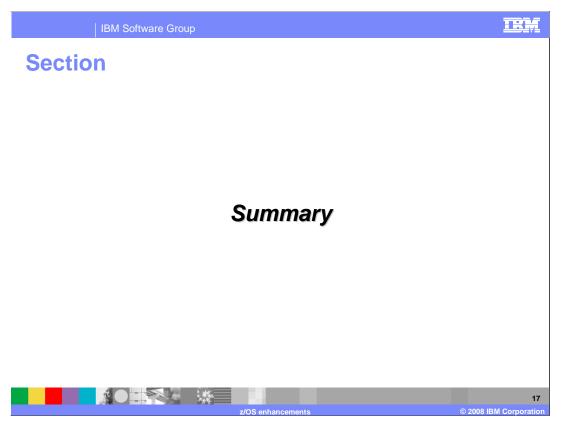
This is an example of the output from the previous display command.



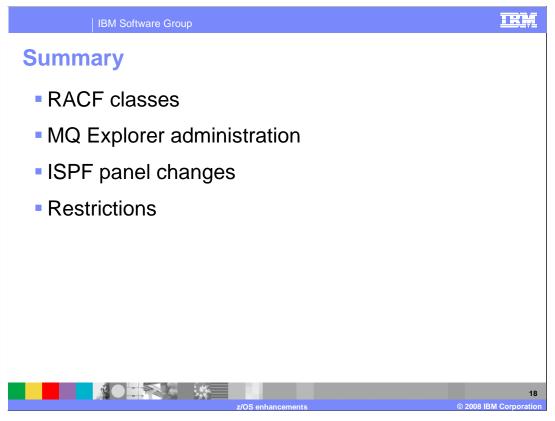
This section describes a restriction for z/OS.



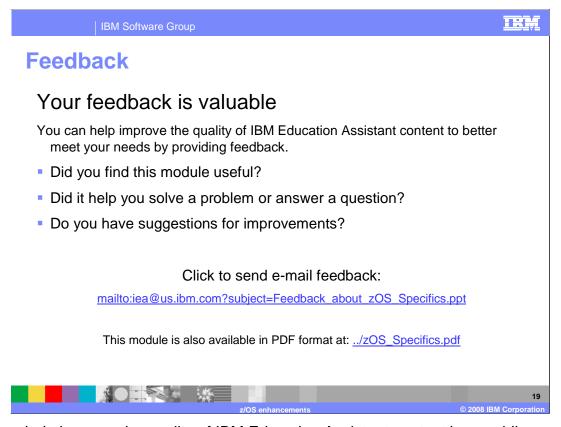
In WebSphere MQ V7 on z/OS, selectors for point to point messaging are not supported when connecting to a z/OS queue manager.



This section provides a summary of enhancements to WebSphere MQ V7 on z/OS.



There are new RACF classes to support mixed case profiles in WebSphere MQ V7 on z/OS. MQ Explorer administration on z/OS is possible without the Client Attach Feature. The ISPF panels now support MQSC commands.



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