

Using IBM MQ MQSAUTHERRORS environment variable to generate FDC files
when the queue manager encounters reason code 2035
MQRC_NOT_AUTHORIZED

<https://www.ibm.com/support/pages/node/622223>

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+++ Question +++

How do I enable and use the IBM MQ MQSAUTHERRORS environment variable for the MQ queue manager to generate FDC files related to MQ MQRC 2035 (MQRC_NOT_AUTHORIZED) errors when dealing with MQ Client Applications?

+ Note:

Since MQ 7.1, the default behavior is to add warnings/errors related to security in the error log of the queue manager. Thus, only if these entries do not seem to be sufficient to you, then you could add the MQSAUTHERRORS environment variable.

+++ Answer +++

The environment variable MQSAUTHERRORS can be set to allow the queue manager to generate FDC files when errors related to the return code 2035 (MQRC_NOT_AUTHORIZED) are encountered.

This environment variable only affects whether an FFST with Probe ID ZF039010 is written; all other FFSTs are produced irrespective of this environment variable.

+ Enabling

Export the environment variable. The value does NOT matter. The code just checks for the environment variable to be defined.

UNIX: export MQSAUTHERRORS=TRUE
Windows: set MQSAUTHERRORS=TRUE

Start the queue manager.

Recreate the authorization failure.

Look for a new FDC file in /var/mqm/errors

+ Usage Notes

The environment variable can be added in the .profile or .bashrc file for the user "mqm". You must export this environment variable prior to starting the queue manager. The value is ignored, but it is a good practice to use a value that indicates that it is set, such as TRUE.

+ Disabling

To disable the reporting, you need to unset the environment variable and then to restart the queue manager.

UNIX: unset MQSAUTHERRORS
Windows: set MQSAUTHERRORS=

+ Expected Behavior

No entries are added in the error log for the queue manager.

The general AMQ error log has 2 entries:

AMQ6125: An internal MQ error has occurred.

AMQ6184: An internal MQ error has occurred on
queue manager QueueManagerName.

Scenario A

The userid used by the client exists in the host server, but it is NOT authorized. In this example is "userid1". There is one FDC generated with the following highlights:

```
Probe Id           :- ZF039010
Component          :- zfu_as_checkobjectauthority
Major Errorcode    :- MQRC_NOT_AUTHORIZED
Probe Description  :- AMQ6125: An internal MQ error has occurred.
```

Note: The name of the userid who tried to access the queue manager is shown in a single line, after the "MQM Trace History" section of the FDC.

```
MQM Trace History
...
{ xcsFFST
  < blank line >
0x425a4760  61746420  20202020  20202020          userid1
  < blank line >
```

Scenario B

The userid used by the client does NOT exist in the host server. In this example is "userid2". Notice the difference in "Major Errorcode" in this scenario, "MQRC_UNKNOWN_ENTITY", to the one in the Scenario A, "MQRC_NOT_AUTHORIZED".

```
Probe Id          :- ZF039010
Component         :- zfu_as_checkobjectauthority
Major Errorcode   :- MQRC_UNKNOWN_ENTITY
Probe Description :- AMQ6125: An internal MQ error has occurred.
```

Note: The name of the userid who tried to access the queue manager is shown in a single line, after the MQM Trace History

```
MQM Trace History
...
{ xcsFFST
  < blank line >
0x425a4760  766C616D  706B696E  20202020          userid2
  < blank line >
```

+ Related technote

<https://www.ibm.com/support/pages/node/97457>

Using IBM MQ MQS_REPORT_NOAUTH environment variable to generate entries AMQ8077W in queue manager error log, for reason code 2035 MQRC_NOT_AUTHORIZED

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