

MQCCI for z/OS Overview



Capitalware Inc.
Unit 11, 1673 Richmond Street, PMB524
London, Ontario N6G2N3
Canada
sales@capitalware.com
<https://www.capitalware.com>

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1 Introduction

1.1 Overview

MQ Channel Connection Inspector for z/OS (z/MQCCI) is a new solution that allows a company to track and/or audit what information a client application or remote queue manager is exchanging with the local queue manager when a connection is made.

z/MQCCI is comprised of an MQ Channel Security Exit. A channel security exit is ONLY invoked/called by the queue manager's MCA (Message Channel Agent) for MQCONN/X and MQDISC API calls (so it is very light-weight).

z/MQCCI will operate with IBM MQ v6.0, v7.0, v7.1, v8.0, v9.0, v9.1 and v9.2 for z/OS environments. It works with Server Connection, Receiver, Requester, Sender, Server, Cluster-Sender and Cluster-Receiver channels of IBM MQ queue manager.

z/MQCCI is designed to provide the MQAdmin with any or all of the fields of the MQCD and MQCXP structures in a "human readable" format. Human readable implies that it will convert binary fields into their MQ defined names (i.e. SSLClientAuth=MQSCA_REQUIRED). The user can control the fields that are outputted for each of the following MQ structures: MQCD and MQCXP.

z/MQCCI is designed to output 1 line per API call (1 long line). The output information is written to plain text CSV (Comma Separate Value) files. The user can choose to have the output information written to a local or remote queue rather than to a file.

1.2 Executive Summary

The MQ Channel Connection Inspector for z/OS solution is comprised of a channel security exit.

The channel security exit is available as:

- z/OS load-module

The major features of MQ Channel Connection Inspector for z/OS are as follows:

- Output information related to MQCONN/X and MQDISC API calls for remote connections
- MQCCI is designed to provide the user with all of the information in "human readable" format.
- Provides the output files in an easy to manage CSV (Comma Separated Value) format
- The user can select to have the CSV data written to a queue rather than a file

1.3 Prerequisites

This section details the minimum supported software levels. These prerequisites apply to the server-side installations of MQ Channel Connection Inspector for z/OS.

1.3.1 Operating System

MQ Channel Connection Inspector for z/OS can be installed on any of the following supported servers:

1.3.1.1 IBM z/OS

- IBM z/OS v1.4 or higher

1.3.2 IBM MQ

- IBM MQ for z/OS v6.0, v7.0, v7.1, v8.0, v9.0, v9.1 and v9.2