MQ Channel Throttler Overview
Table of Contents

1 INTRODUCTION.................................................................................................................................1

1.1 OVERVIEW........................................................................................................................................1

1.2 EXECUTIVE SUMMARY.......................................................................................................................2

1.3 CONTEXT DIAGRAM (LOGICAL VIEW)............................................................................................2

1.4 PREREQUISITES....................................................................................................................................3

  1.4.1 Operating System........................................................................................................................3

  1.4.2 IBM MQ.........................................................................................................................................4
1 Introduction

1.1 Overview

*MQ Channel Throttler* (MQCT) provides the ability to control/throttle the number of connection calls, open calls and/or messages (or bytes) that flow over a channel. MQCT operates with IBM MQ v7.1, v7.5 v8.0, v9.0 and v9.1 in Windows, Unix, IBM i (OS/400) and Linux environments. It operates with Sender, Receiver, Server, Requester, Cluster-Sender, Cluster-Receiver and Server Connection channels of the MQ queue managers.

MQCT is a simple drop-in solution that provides throttling for MQ queue managers. The throttling can be configured for queue manager to queue manager channels or for client application to queue manager channels.

- Queue manager to queue manager throttling means all messages (or bytes) flowing over a channel between 2 queue managers will be throttled.

- Client application to queue manager throttling means application-level connection calls, open calls and/or messages (or bytes) flowing between a MQ client application and queue manager will be throttled.

MQCT can be used to throttle the following MQ API calls: MQCONN, MQCONNX, MQOPEN, MQGET, MQPUT and MQPUT1.

The MQCT can be configured as a channel message exit or as a channel send/receive exit.

On AIX, HP-UX, Linux, Solaris and Windows, MQCT can be configured and used with a non-default installation of MQ in a multi-install MQ environment.
1.2 Executive Summary
The MQCT solution is an MQ channel exit. It is available for a wide range of platforms: AIX, HP-UX, IBM i, Linux, Solaris and Windows.

Major Features of MQCT:

- Easy to set up and configure
- No application changes required
- Can be configured as either queue manager to queue manager or client application to queue manager solution
- For both modes, all message data flowing over a channel can be throttled (controlled)
- Standard MQ feature, GET-with-Convert, is supported
- Provides high-level logging capability for throttling process

1.3 Context Diagram (Logical View)
1.4 Prerequisites
This section details the minimum supported software levels. These prerequisites apply to both client-side and server-side installations of MQ Channel Throttler.

1.4.1 Operating System
MQ Channel Throttler can be installed on any of the following supported servers:

1.4.1.1 IBM AIX
    ➢ IBM AIX 6L version 6.1 or higher

1.4.1.2 HP-UX IA64
    ➢ HP-UX v11.23 or higher

1.4.1.3 IBM i (OS/400)
    ➢ IBM i V6R1 or higher

1.4.1.4 Linux x86
    ➢ Red Hat Enterprise Linux v5, v6, v7, v8
    ➢ SUSE Linux Enterprise Server v11, v12, v15

1.4.1.5 Linux x86_64 (64-bit)
    ➢ Red Hat Enterprise Linux v5, v6, v7, v8
    ➢ SUSE Linux Enterprise Server v11, v12, v15

1.4.1.6 Linux on POWER
    ➢ Red Hat Enterprise Linux v5, v6, v7, v8
    ➢ SUSE Linux Enterprise Server v11, v12, v15

1.4.1.7 Linux on zSeries (64-bit)
    ➢ Red Hat Enterprise Linux v5, v6, v7, v8
    ➢ SUSE Linux Enterprise Server v11, v12, v15

1.4.1.8 Sun Solaris
    ➢ Solaris SPARC v10 & v11
    ➢ Solaris x86_64 v10 & v11

1.4.1.9 Windows
    ➢ Windows 2008, 2012 or 2016 Server (32-bit & 64-bit)
    ➢ Windows Vista, 7, 8, 8.1 or 10 (32-bit & 64-bit)
### 1.4.2 IBM MQ

- IBM MQ v7.1, v7.5, v8.0, v9.0 and v9.1 (32-bit and 64-bit)

<table>
<thead>
<tr>
<th>Operating System</th>
<th>MQ v7.1, v7.5, v8.0, v9.0 and v9.1</th>
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<tbody>
<tr>
<td>AIX v6.1 or higher</td>
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