

IBM Software Group

TPF WebSphere MQ® Task Force Trends and Directions

Allan Feldman October 2004

AIM Core and Enterprise Solutions
IBM z/Transaction Processing Facility Enterprise Edition 1.1.0

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Accepted/Available Requirements

- ✓ Stop Queue Manager in 1052 state PJ29917
 - Prevents queue manager from starting when cycled to NORM
 - Can enable start queue manager in NORM
- ✓ Keepalive for Sender Channels PJ29856
 - Detects lost acknowledgement from receiver channel
- MQINQ for Process PJ29935
- ✓ Improved performance for non-persistent messages -PJ29750
 - No I/O!
- ✓ Support for z/TPF
- ✓ Additional resource display on z/TPF ZSTAT OWNER IMQ_ssname



Support for z/TPF

- Co-existence/migration support for TPF4.1
- Use of named blocks
 - ZSTAT now displays number of blocks in use by MQSeries
- High-priority ports on SDR channels
 - If the system is in input list shutdown, this prevents xmitq from waiting for ACK from receiver channels
- MQSeries commands enabled when GFS active
 - ZMQSC ALT/DEF commands



Support for z/TPF (continued)

- Formatted MQSeries dumps
 - Used new z/TPF dump facility to intelligently dump MQSeries data
 - Queues definitions, messages, channel blocks, control records included in dump with labels
 - Error occured in MQ program e.g. CTL-4 in CMQS
 - Use ZIDOT to associate MQ with specific dump number
 - ZDUMP IBMMQALL
 - New queue attribute (ZMQSC ALT/DEF QL) to limit message data dumped
 - MSGSDump number of messages to dump or ALL
 - DATADump number of bytes of message data to dump or ALL
 - Defaults set by queue manager attribute (ZMQSC ALT QMGR)
 - Queue corruption (CTL-9323) overrides MSGSDump and DATADump to include queue and message data
 - MQ Trace groups



Proposal for MQSeries Requirements Process

- Use TPFUG requirements process
- Separate vote on MQSeries requirements
 - Needs requirements subcommittee approval
- Use form on TPFUG web site to submit new requirements
- Existing requirements submitted by task force



Short Term Requirements/Highest Priority

- SSL
- Remote Administration



Long Term Strategy - TPF Unique Requirements

- Process messages from a transmission queue on a deactivated processor
- Display multiple individual attributes of a queue
 - ZMQSC DISPLAY QL-* CURRDEPTH PUT MAXDEPTH
- Processor unique attributes for queues and queue manager
- Different record IDs for MQ TPFCS files logging requirement
- TPF Server uses long life ECBs
- Delete queue command does not remove all TPFCS collections from database
- Publish list of differences between TPF and other platforms
- Provide batch size monitoring capability
- Display MQ channel socket buffer usage
 - Socket number needed in ZMQSC DISP CHS command for ZSOCK DISPLAY



Long-Term Strategy - MQ Currency

- Shared Channels
- MQ Ping
- ► MQ Heartbeat (requires FAP4)
- Message API user exits
- AdoptNewMCA (requires FAP4)
 - ► QM check for SDR channels
 - Receiver channels?
- Priority Queues
- Report Messages
 - Feedback format for arrival confirmation, expiry, etc.
- MQGET with convert
- Trigger Depth
- Initiation queue
 - For trigger msgs in addition to existing mechanism

- Distribution lists
- Message context
- Open Authority
- Model queues
- Like/Replace definitions
- FAP Currency
- Multiple queue manager support

Have heard from customers



Very Long-Term Strategy

- Cluster Support
- Pub/Sub
- MQ Integrator
- AMI
- Processor shared queues using coupling facility



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