

Can you Apps Keep Up With MQ

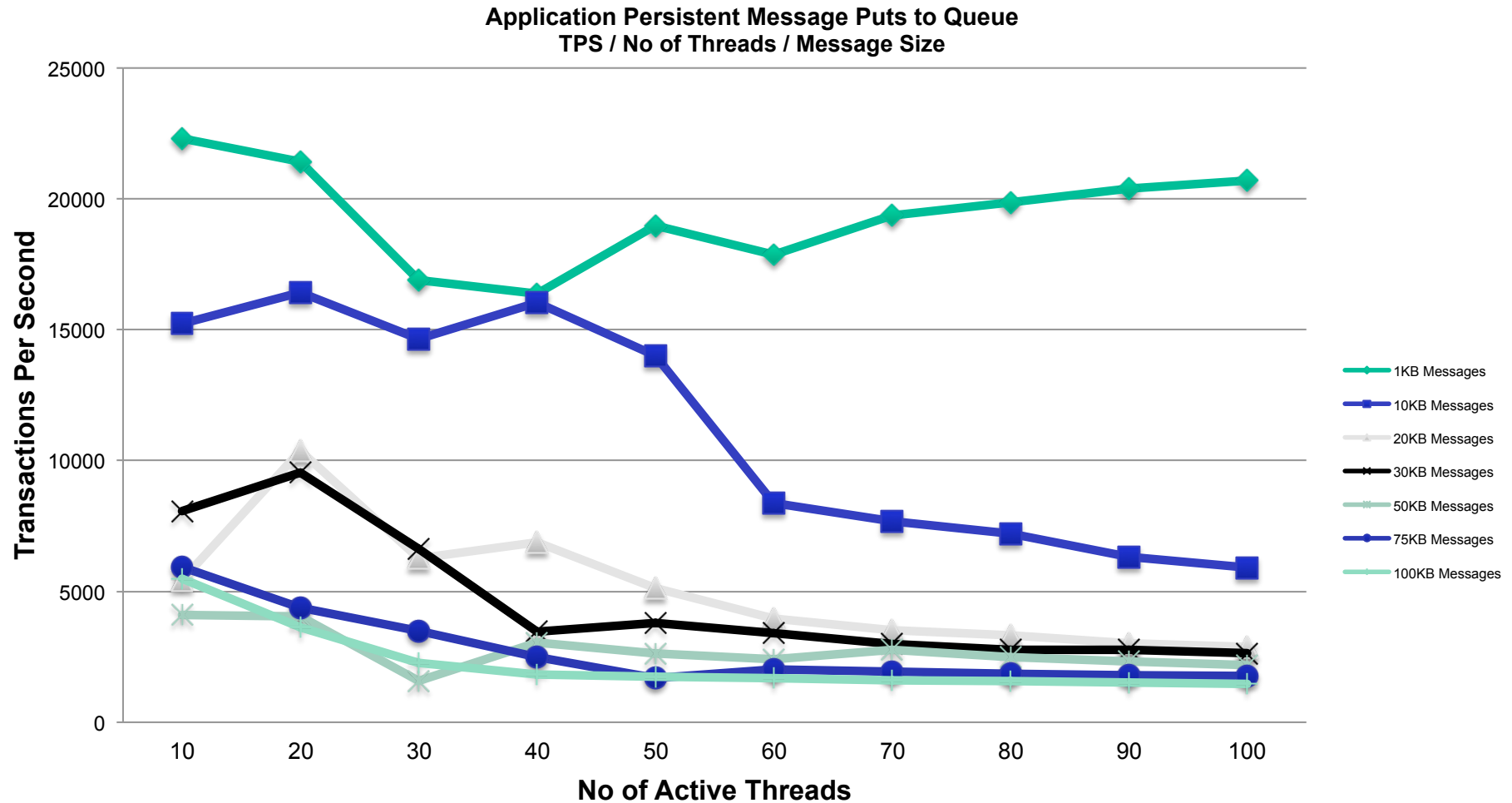
Allan Bartleywood

Senior Executive Consultant – TxMQ Inc

How do we know how quick MQ is?

- **Depends on your environment**
 - ▶ Fast / Slow / Distance / networks
 - ▶ Server / OS / Storage setup
 - ▶ Priority of VM / LPAR – Virtual Environment
- **Performance Issue – It's an MQ Problem...**
- **How do we measure MQ performance**
 - ▶ IBM Tivoli suite including Omegamon for Messaging...
 - ▶ BMC Patrol / QPasa
 - ▶ Nastel Autopilot
- **But what are they measuring?**
 - ▶ As At usage / performance
- **What do they NOT measure / tell you?**
 - ▶ Actual capacity / performance
- **What tools are there to tell you this?**
 - ▶ TxMQ's QPacity

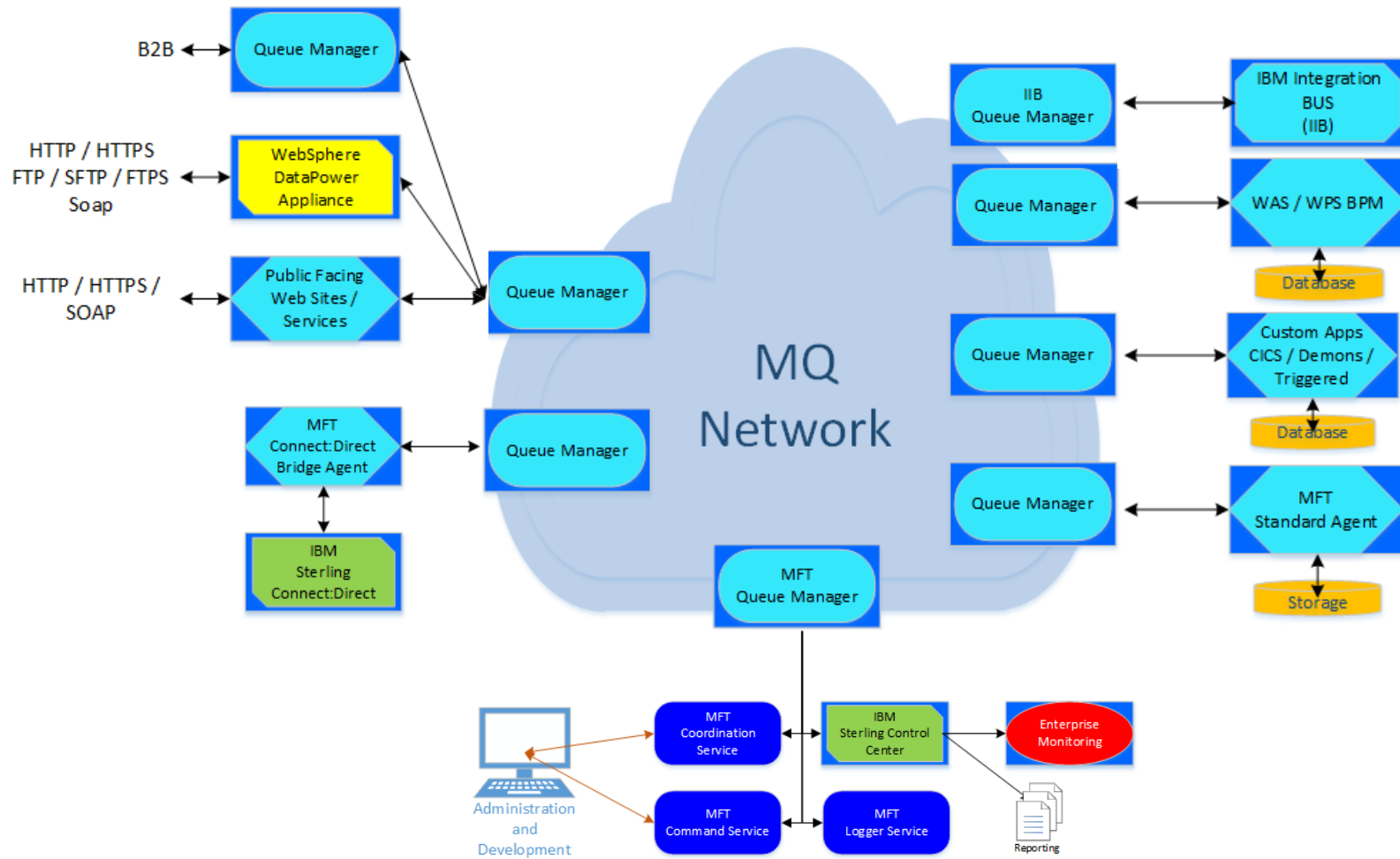
QPacity – Transactions per Second



MQ Administrator Guidance

- **MQ Administrator involvement**
- **Get involved with Design & Code Reviews**
 - ▶ Understanding of the programming languages in use
 - ▶ Good practice is MQ Resource usage
 - ▶ Good logic implemented in Queue usage and Message processing
- **What Messaging patterns are being used**
 - ▶ Request / Reply – Non-Persistent Messages
 - ▶ Changes / Notifications – Persistent
 - ▶ File Transfer with or without IIB integration

MQ Messaging Patterns



MQ Object World

- **QMgrConnectionFactory**

- ▶ Singleton
- ▶ Manages Connections
 - Client Bindings
 - Local Bindings
- ▶ Commits
- ▶ Rollbacks

- **QueueFactory**

- ▶ Access to the Queue
 - Gets
 - Puts
 - Browse

- **MQOptions**

QMgrConnectionFactory

Lets have a look at QMgrConnectionFactory

QueueFactory

Lets have a look at the QueueFactory

MQ Triggering

- **CICS**
 - ▶ Has An Initiator
 - ▶ Triggering Feature Built in
- **Distributed**
 - ▶ Provided Trigger Monitor
 - ▶ Does NOT provide CICS Controls
 - ▶ Risks
 - Do NOT use Trigger Every

Customer Trigger Monitor

- **Build your Own**
- **Thread Management**
- **Shared Resources**
- **Only process Queues with Messages**

Questions & Answers

