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# features

- The WebSphere MQ product is still:
  - WebSphere MQ
  - Optional chargeable features on all supported platforms are:
    - WebSphere Managed File Transfer Service
    - WebSphere MQ Advanced Message Security
- MQ V7.1 latest available for z/OS
- MQ V7.5 latest available for distributed
  - Major change in way packaging of optional features done which was not applicable to z/OS
- Details at:
  - <u>http://www-</u>
     <u>01.ibm.com/software/websphere/subscriptionandsupport/wmq/versions.html</u>

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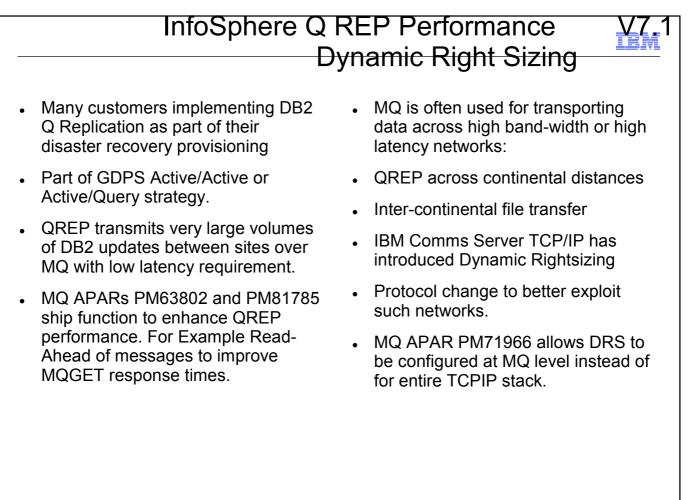
### And now for the news...

• Updates since V7.1

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| V7.1 SHA-2 Cipher Specs V7.1<br>Dynamic Statistics  |   |
|---|---|
| Customers have ever more stringent security requirements. Particularly in Government and Banking sectors: | <ul> <li>Investigation of performance issues requires<br/>collection of statistics and detailed thread level<br/>information.</li> </ul>                                      |
| z/OS platform has added support for SHA-2<br>Cipher Specs via a z/OS APAR on z/OS 1.13                    | <ul> <li>MQ configuration allows for stats and<br/>accounting traces to be enabled dynamically,<br/>but only picked up for new tasks started since<br/>the change.</li> </ul> |
| These are inter-operable with the new Cipher Specs added on distributed MQ in V7.5                        |   |
| MQ APAR PM77341 enables MQ SSL  | Often problems happen on long running tasks,<br>eg MQ channels  |
| channels to use these to protect the<br>transmission of WMQ messages.                                     | • MQ APAR PM58798 allows new trace settings   |
| - TLS_RSA_WITH_NULL_SHA256  | to be enabled for long running threads from next API request.   |
| - TLS_RSA_WITH_AES_128_CBC_SHA256   |   |
| <ul> <li>TLS_RSA_WITH_AES_256_CBC_SHA256</li> </ul>   |   |
| <ul> <li>ECDHE_ECDSA_AES_128_CBC_SHA256</li> </ul>  |   |
| <ul> <li>ECDHE_ECDSA_AES_256_CBC_SHA384</li> </ul>  |   |
| <ul> <li>ECDHE_RSA_AES_128_CBC_SHA256</li> </ul>  |   |
| <ul> <li>ECDHE_RSA_AES_256_CBC_SHA384</li> </ul>  |   |

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#### Accelerating the delivery of next generation applications

IBM WebSphere MQ Advanced for Developers – Free to download now!



- Designed for developers to get access to the full WebSphere MQ Advanced package at *no cost* for developers to use on their own machines – at home or at work
- Boost developer skills with the most *flexible*, complete and highly configurable messaging environment
- Faster access to all of WebSphere MQ Advanced capabilities for developers to enhance applications with message security, managed file transfer and mobile access

#### What's new

- WebSphere MQ Advanced for Developers available for free
- Download today for development use
- Available without IBM Support
  - Join the discussion on the IBM MQ Messaging Community on developerWorks
- Get IBM Support with a per-user licensed copy of WebSphere MQ Advanced for developers



Organizations need to accelerate the delivery of applications with a highly configurable messaging environment



#### **Leading messaging platform engineered for z/OS** IBM WebSphere MQ for z/OS Value Unit Edition



- Create and grow new application workloads onto a new System z LPAR, allowing simplified system administration at a reduced cost
- Handles the complexities of communication protocols and dynamically distributes messaging workload across available resources

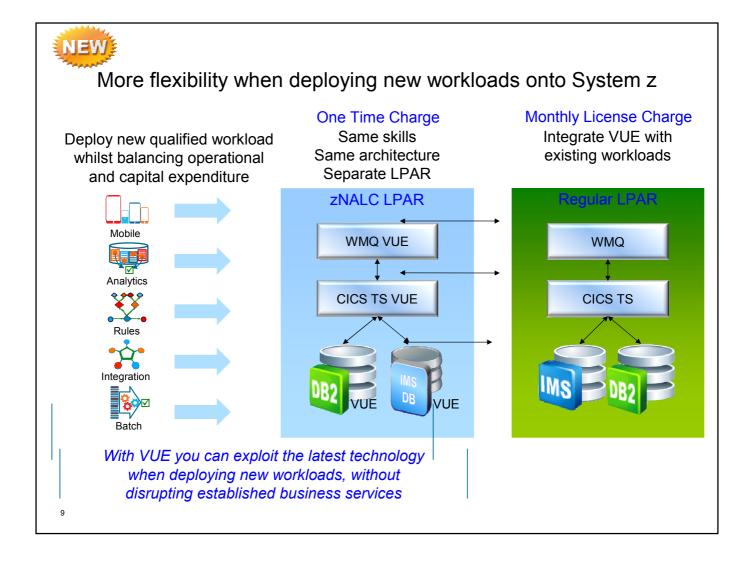
#### What's new

- One time charge (OTC) price metric instead of the usual monthly license charge
- Connect new workloads that are qualified to run on System z New Application License Charge (zNALC) logical partitions (LPARs).
- Includes the code and entitlement to use WebSphere MQ Client Attachment Feature, by allowing connections to WebSphere MQ Clients, which run on other platforms



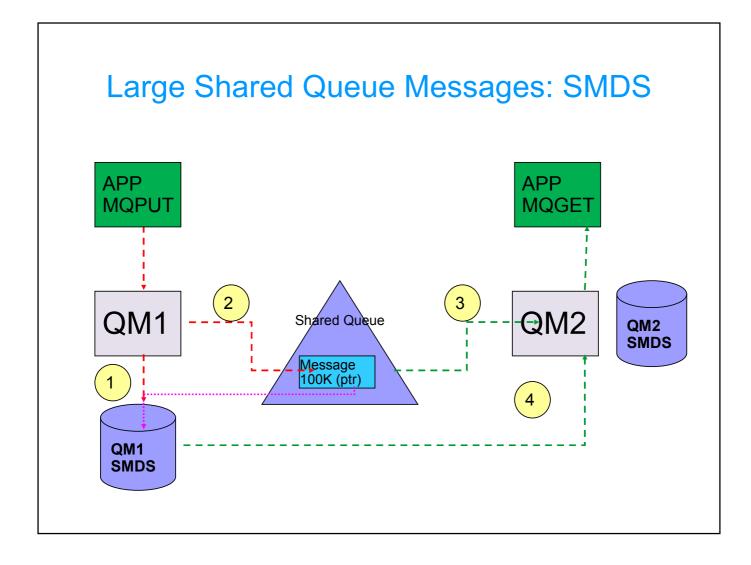
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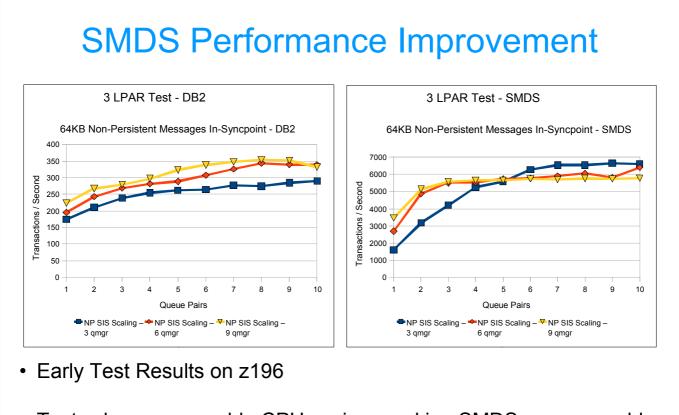
Secure, reliable and high performance messaging layer purely for the z/OS platform



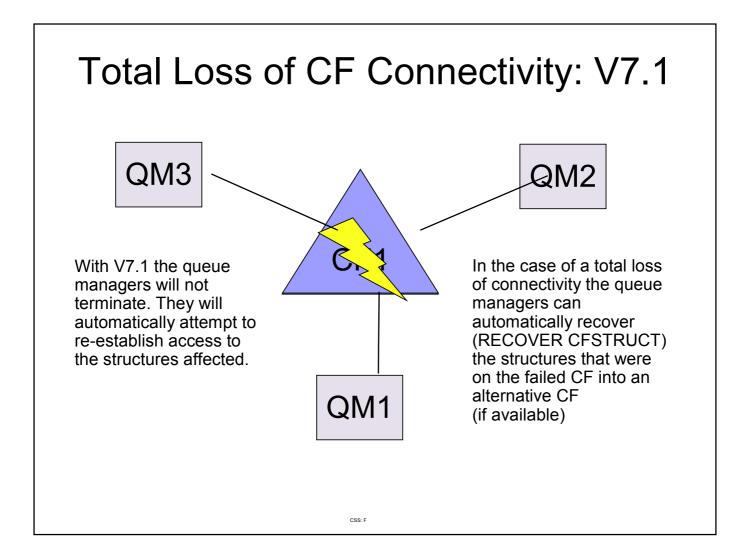
# And in case you missed it...

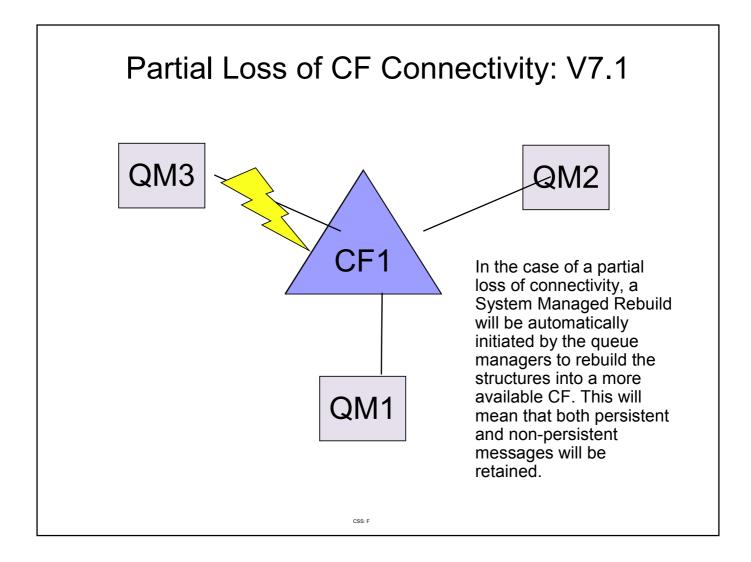
• Some recent new news...





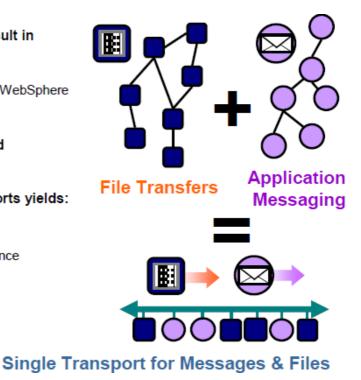
- Tests show comparable CPU savings making SMDS a more usable feature for managing your CF storage
- SMDS per CF structure provides better scaling than DB2 BLOB storage

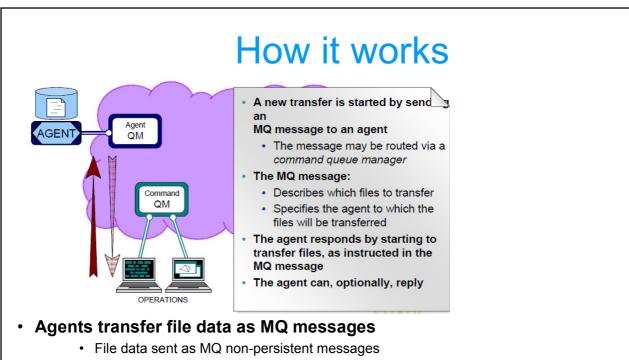




### WebSphere Managed File Transfer Service

- Traditional approaches to file transfer result in parallel infrastructures
  - · One for files typically built on FTP
  - One for application messaging based on WebSphere MQ, or similar
- High degree of duplication in creating and maintaining the two infrastructures
- Consolidating messaging and file transports yields:
  - · Operational savings and simplification
  - Reduced administration effort
  - · Reduced skills requirements and maintenance





- · Allows prioritization with existing messaging workloads
- · Protocol used accounts for non-delivery and re-ordering
- Transfers are paced
  - · This avoids a backlog of messages building up
- Transfers automatically check-point:
  - If any part of the infrastructure suffers an outage, transfers automatically re-start from the last check-point

### WebSphere MQ Advanced Message Security

- · Provides additional security services over and above base MQ
- · Application to Application protection for messages
  - Well suited to point to point, publish/subscribe limited
  - Have to know your authorized parties ahead of operation
- · Asymmetric cryptography used to protect each message
- Non-invasive
  - No changes required to applications
- · Administrative interfaces for policy management
  - Command line
  - MQ Explorer Plug-In (GUI)

# Why message security ?

- Large MQ networks : difficult to prove security of messages
  - Against message injection / message modification / message viewing
- Data subject to standards compliance (PCI, HIPAA, etc)
  - Credit card data protected by PCI
  - Confidential government data
  - Personal information e.g. healthcare
  - Data at rest, administrative privileges, etc

### MQ security vs Advanced Message Security

- AMS is an additional offering, not a replacement to WMQ security
- WebSphere MQ
  - Authentication (Local OS user id, SSL peer for clients)
  - Authorization (OAM on distributed, RACF on z/OS)
  - Integrity (SSL for channels)
  - Privacy (SSL for channels)
- WebSphere MQ Advanced Message Security
  - Integrity (Digital signing of messages)
  - Privacy (Message content encryption)

