

IBM's Strategic Approach to System-Centric MFT with Sterling Connect:Direct and WebSphere MQ Advanced

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Files still synchronize the majority of key process inside and outside your business ...



55 percent of system to system integration is accomplished via files

If the transfer of that file **fails**, the process that depends on it **fails**



Value chain synchronization survey - Feb, 2012 for IBM



IBM Managed File Transfer enables enterprises to reliably and securely govern all critical information flows across the business



Governance

Actionable visibility for business, operations and compliance

System-centric



Automated, reliable, secure transfers for system integration

Community-centric



Multi-protocol edge gateway for universal connectivity to the business community Person-centric



File sync and share



Emerging use cases



Extreme Sync Direct to Cloud



eXtreme

Large file/data set, long distance, speed is critical





Security

Common perimeter services, proxy and authentication





Data exchange and transfer is critical because it drives key processes and interactions









Originator/Destination

- Retailer to third party processor
- Internal system to system
- Manufacturer to suppliers
- Corporates to banks

Payload

- Credit card transactions
- Batch integration data
- Orders, forecast, design
- Payments, treasury

Key drivers

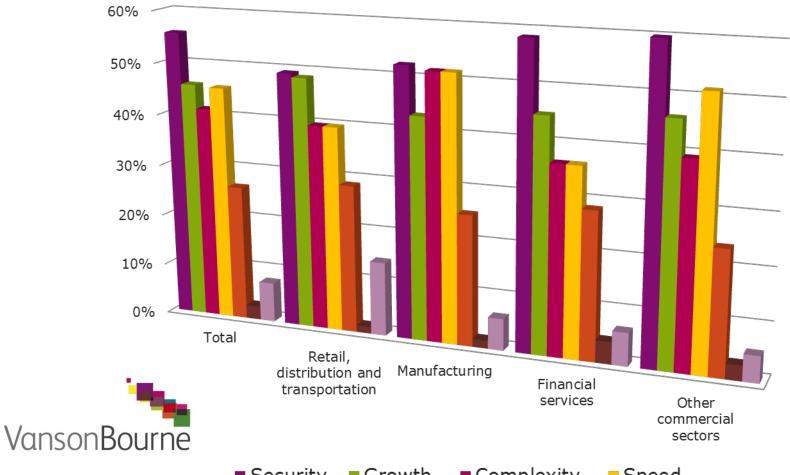
- Volumes, security, reliability
- Reliability, security, platforms
- Multi protocol, file processing
- Monitoring, security
- Users sharing with other
 Legal briefs, marketing
 Simplicity, security, users inside/outside org
- proofs, customer lists, support logs
 - interfaces, sync
 - Ingest and distribution Movies, eDiscovery, of large digital assets
- Movement of Big Data
 Research, genomes, to/from/through cloud
- seismic data, back-up
 - Movies, social
- Speed, Large file/data set size, global WAN distances

55% of system integrations (both internal & external) are accomplished via files



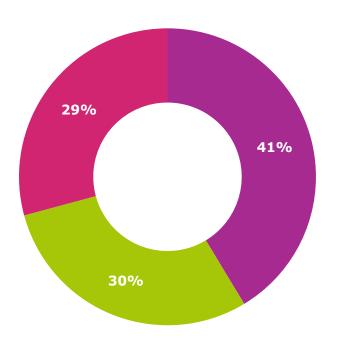
Top concerns around MFT across industry

Which of the following issues limits the effectiveness of your file transfer systems?





The change in file transfer workloads ...



Please give an estimation of the volume (number) of transfers in the following categories by allocating 100% between the following options:

2013 Vanson Bourne B2B Integration and MFT Global Study

■ System centric transfers:

automated, secure transfers for system-to-system integration

Community centric transfers:

transfers that link your business community to your organization

■ Person centric transfers:

transfers between people inside and outside your company





Increased Focus on Governance, Risk & Compliance with MFT

Use cases and requirements guide the choice – not the technology



Redefining MFT



Customer Choice for MFT

MFT has changed

- It is not about products, but business driven use cases
- Choices facing today's enterprises need not to be about the underlying technology
- The priority is to bring the benefits of governance, security and reliability to more of the data exchanges that power today's processes.
- The financial flexibility to leverage existing infrastructure or adapt flexibly over time is critical to any strategic decision.

Everything you need to align MFT with the ever-changing use cases of your business

Operational Visibility and Governance

- Sterling Control Center for monitoring, management, and audit of all file transfers (central services and endpoints)
- Improved exception handling and service-level management, regardless of the use case or technology chosen
- Built-in operational dashboards and customizable reports and analyses
- Easily extensible to provide in-depth business insight through IBM Business Monitor

Flexible Deployment

- Choice of MFT transports: Connect:Direct and MQ transports
- Mix-and-match services, mix-and-match endpoints within the licensed environment
- Change the mix as your business needs change
- Add additional capacity as your workloads expand without the need to declare in advance what services will be deployed



Exploring the various use cases for System-Centric file transfer

- Secure, auditable, and assured delivery (Internal Only, Internal and External)
- Secure data exchange with many customers and partners
- Migration from FTP to MFT (both MQ MFT and Sterling Connect:Direct can help with this)
- Process-driven, file-based integration
- File transmission service center
- File transfer management enabled by SOA and ESB



Leveraging the right system-centric MFT technology

- Architectural expertise and past implementation choices
 - What patterns of data movement are in use or required?
 - Which advantages are more important to you?
- Buyer / sponsor organization preferences
 - Are you already a WebSphere MQ shop?
 - Are you already a Sterling Connect: Direct shop?
 - Are you using or requiring multiple transport protocols?
- Community standards or preferences
 - By partner or business unit
 - Industry-specific



Two New Ways to Deliver IBM's System-Centric MFT





IBM Connect:Direct Advanced

The reliable solution for secure, point-to-point file transfers.

What it does

- · High volume, large size, high performance file transfers
- · Automation, retry-restart, for unattended operations
- · Certified security to provide sensitive data
- Increase transfer speed over high speed networks and overcome latency issues

What it allows customers to do

- · Move files with confidence and upgrade unreliable, unsecured FTP
- · Simplify coding and automation of new file transfer links
- · Handle growth in data volume and size without increase in staff

What differentiates IBM Sterling

- Reliability Eliminates file transfer disruptions from software failures
- Security Protects privacy and integrity of data because the IBM Sterling protocol has never been breached



IBM WebSphere MQ Advanced

WebSphere MQ File Transfer Service delivers a complete solution for reliable file movement across the enterprise.

What it does

- · Tracks the movement of files from source to target
- Automates transfers to avoid unnecessary delays and lower levels of staff productivity
- Helps insure the secured management and auditability of missioncritical files
- Consolidates files and messages into a single transport to eliminate disparate infrastructures and reduce integration costs

What it allows customers to do

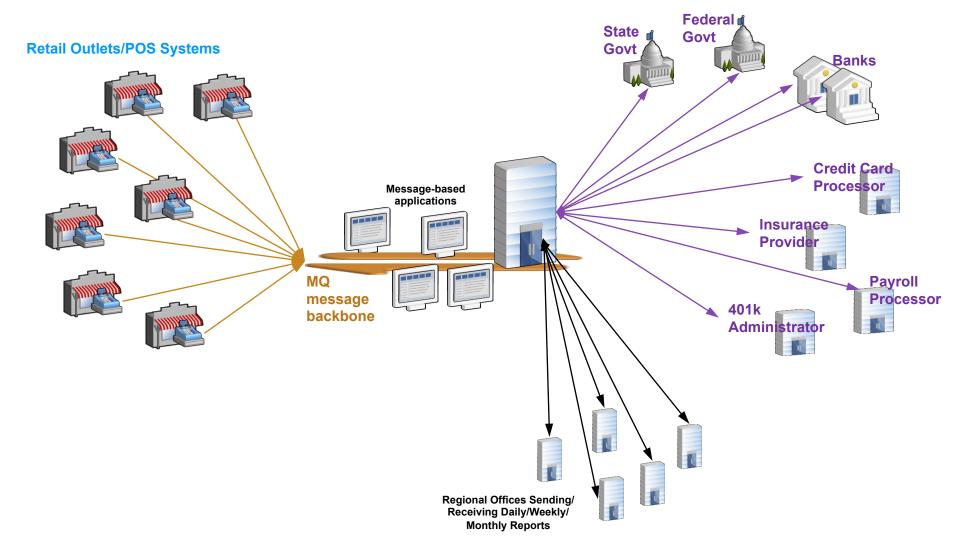
- Leverage their WebSphere MQ infrastructure for Managed File Transfer
- Integrate internal file transfers with IBM's B2B Edge gateway
- Help insure the security, reliability and auditability of point-to-point files transfers

What differentiates IBM?

- Proven message-oriented middleware technology lets you capitalize upon your existing IT investment
- Leverages an Enterprise Service Bus infrastructure for universal file delivery including messages, files and events



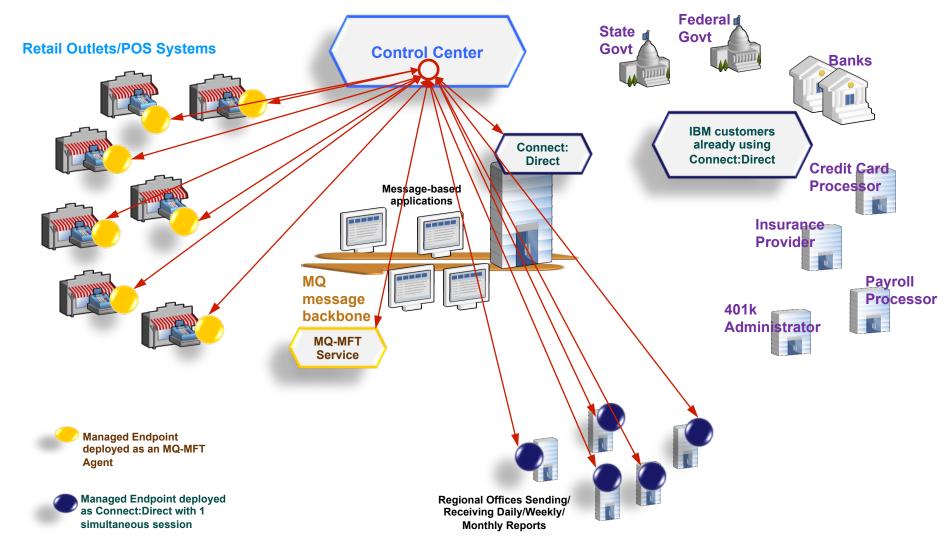
Scenario 1: Retailer with multiple Use Cases





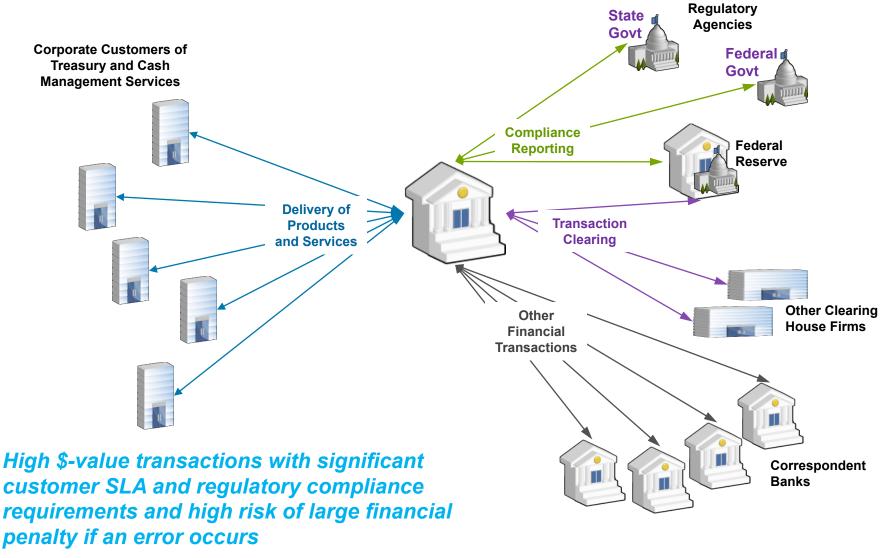
Scenario 1: Retailer with multiple Use Cases

How customer deploys IBM Connect:Direct Advanced to meet their needs



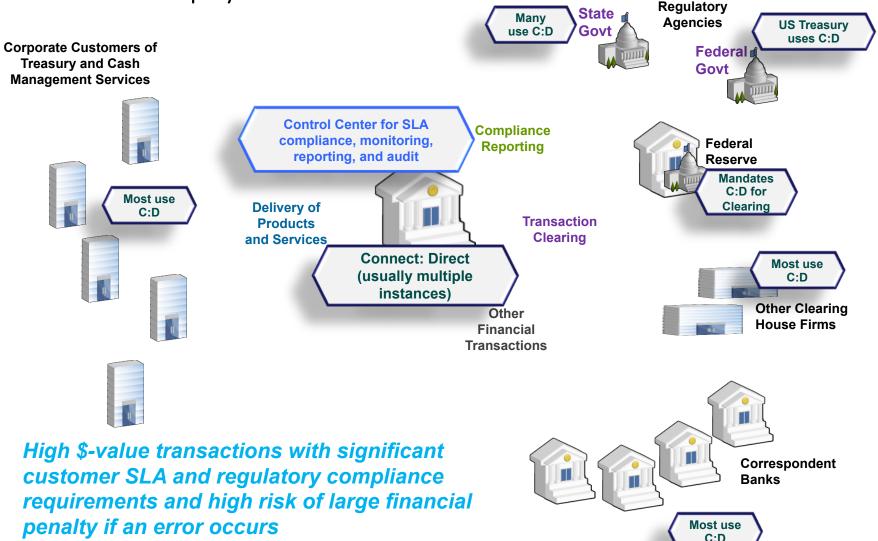


Scenario 2: Commercial banking





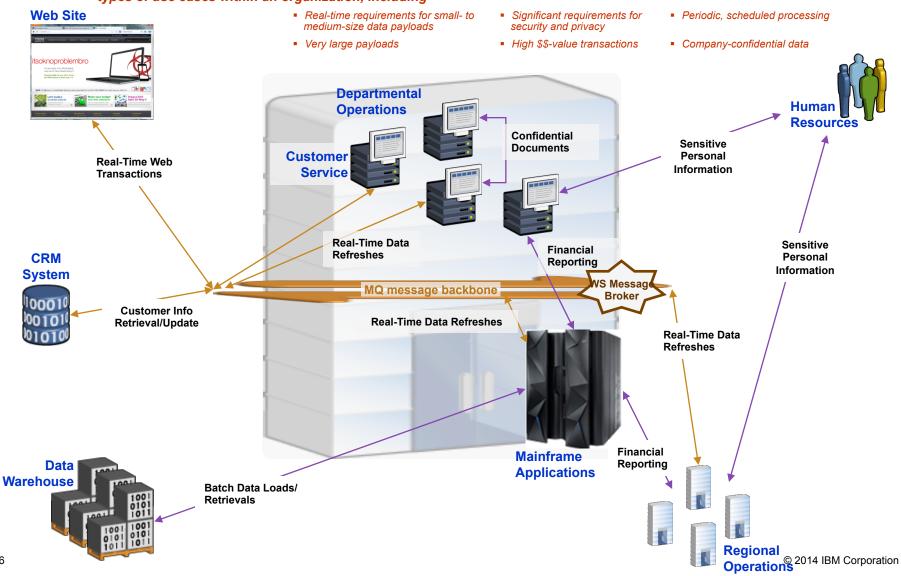
Scenario 2: Commercial Banking
How customer deploys IBM Connect:Direct Advanced to meet their needs





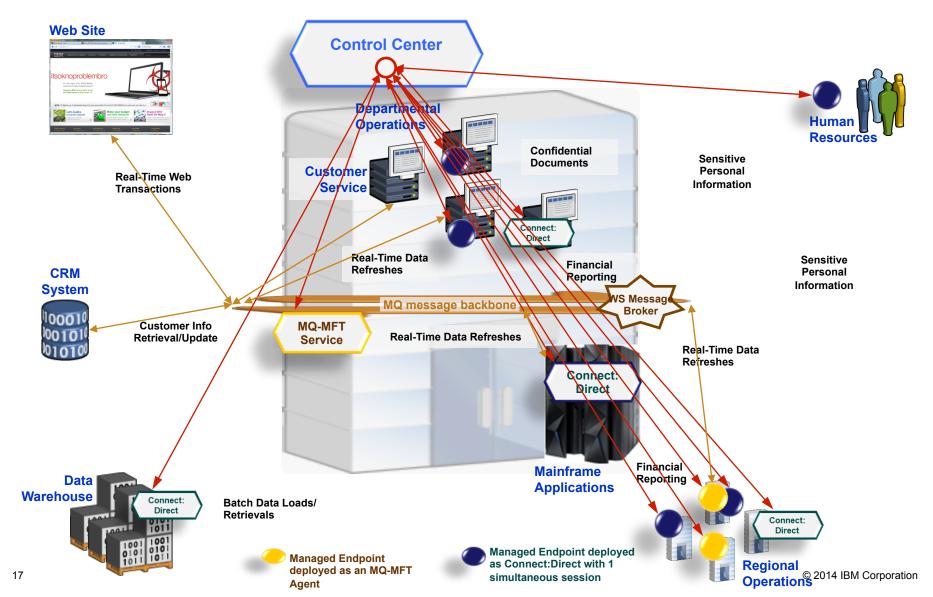
Scenario 3: Multiple Internal Use Cases

Not intended to be a precise representation of all the use cases, but illustrative of the fact that there may be many different types of use cases within an organization, including



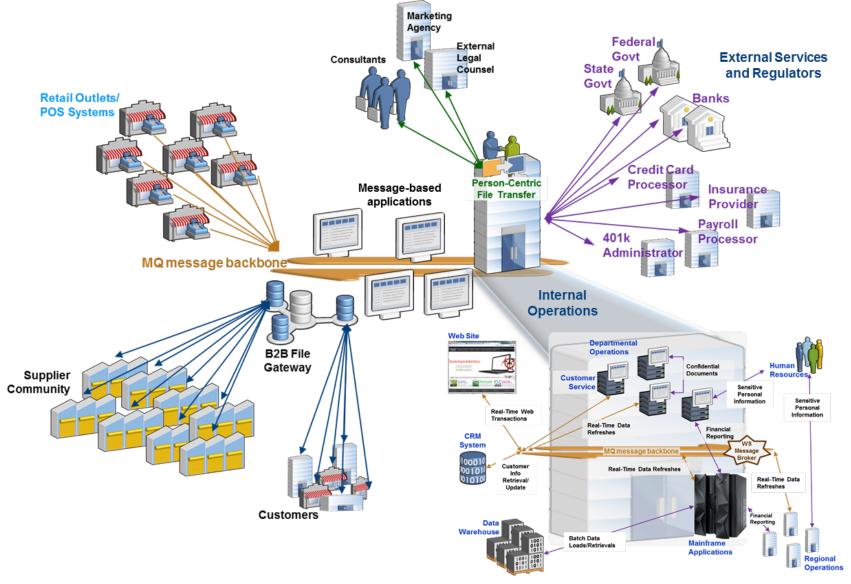


Scenario 3: Multiple Internal Use Cases How customer deploys IBM Connect:Direct Advanced to meet their needs



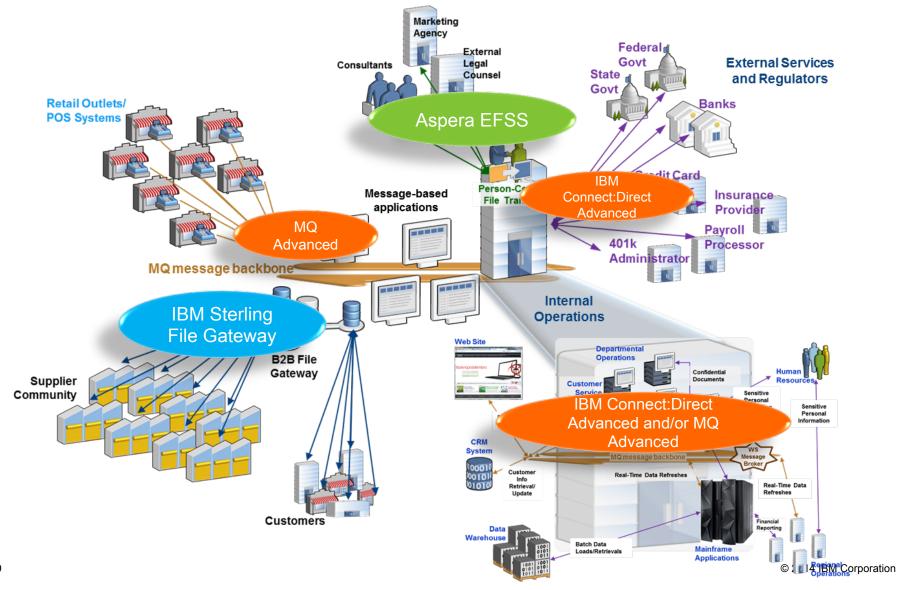


Scenario 4: Customer with full set of MFT use cases





Scenario 4: Customer with full set of MFT use cases How customer deploys IBM MFT solutions to meet their needs





Considerations for leveraging Connect: Direct technology



- Connect:Direct is already deployed widely internally or trading partners have a preference for the Connect:Direct protocol
- File based file transfer for batch data movement with a small footprint, integration with 3rd party schedulers, and rapid deployment
- A single solution for peer-to-peer file transfer spanning internal and external
- File movement for payment processing internally and externally typically within the financial services industry
- Failed audit and adding security, monitoring, and reliability without re-writing FTP scripts
- Data movement across a broad range of platforms, including mainframe, midrange and distributed
- Desire to leverage System z specific capabilities, including high speed file movement with IBM storage (zFBA) and file compression offload with IBM zEnterprise Data Compression (zEDC)



Considerations for leveraging WebSphere MQ technology

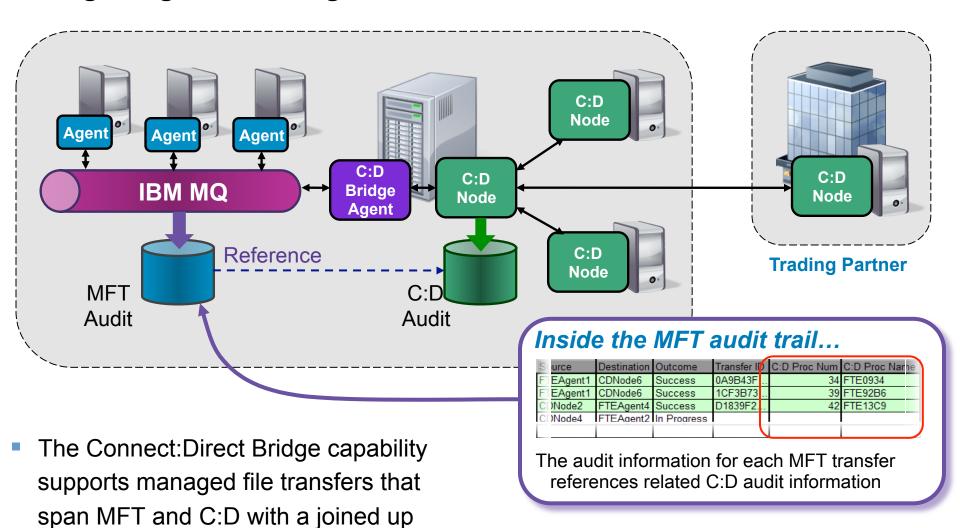


- MQ is already deployed widely internally
- Extends the customers SOA skill investment to MFT
- Secure file exchange between locations, stores, offices, etc
- Modernizing legacy infrastructure for integration with File to Message and Message to File
- Eliminate FTP complexities, Coles 167,000 FTP scripts reduced to 30 transfer patterns
- FTP migration but need coexistence with existing FTP servers and drop-boxes
- Broad range of platforms including distributed & mainframe
- Partner prefers MQ for B2B, i.e. US Postal, National Association of Railroads, et al.

audit trail



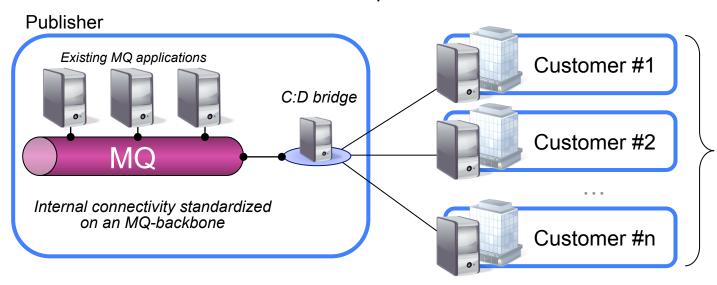
Integrating IBM Sterling Connect: Direct and IBM MQ MFT





Bridging MQ and C:D networks at a large publisher

Solution architecture for a large publisher using the C:D bridge as a way to consolidate its IT infrastructure while still retaining the communication protocols used to communicate with partners



Customers
request that
publications
can be
submitted to
the publisher
via the C:D
protocol

Pain Points

- Existing solution is a hodgepodge of different data transports from different vendors
- Difficult to integrate existing applications, built on MQ messaging, with file data arriving from business partners

IBM's MFT suite helps

- Bridge the MQ and C:D environments
- Leverage existing MQ skills and investment
- Message-to-file and file-to-message
- End-to-end visibility of files and messages
- Modernize batch applications
- Modernize MFT with RESTful Web 2.0 interfaces



Sterling Control Center provides visibility and management for the **B2B** and MFT portfolios



Actionable visibility for business, operations and compliance Governance IBM Sterling Control Center (on prem) and InFlight (cloud)

IBM Sterling Control Center (SCC)

Service Level Management

Where is my file? Where are my business processes? Do I have any critical alerts?

Asset Management

Where is my software installed? Is it the right version? Is it up and and running?

Configuration Management (C:D)

Are my Connect: Direct nodes configured correctly? Are they current? Do they comply with policy?

Managed file transfer



Security-enhanced, reliable data transfers connecting systems, communities and people

System-centric MFT

- •IBM Connect:Direct
- •IBM MQ MFT
- •IBM Connect:Express

Community Centric MFT

- •IBM Sterling File Gateway
- •IBM File Transfer Service **Person Centric**

Integration services



Flexible cloud technologies and expert services host business communities

- IBM B2B Collaboration Network
- IBM B2B Sterling **Integration Services**

Integration gateways



Orchestration and automation for key partner processes

• IBM B2B Integrator

Transformation engines



Single, universal engine for internal and external file and message transformation needs

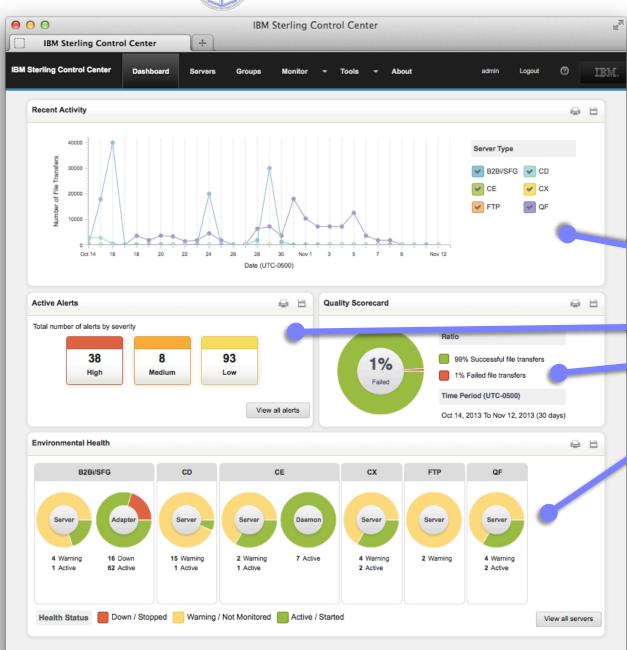
- IBM WebSphere **Transformation Extender**
- IBM Standards **Processing Engine**



Common perimeter services, proxy and authentication **IBM Sterling Secure Proxy**



Greater insight, right up front

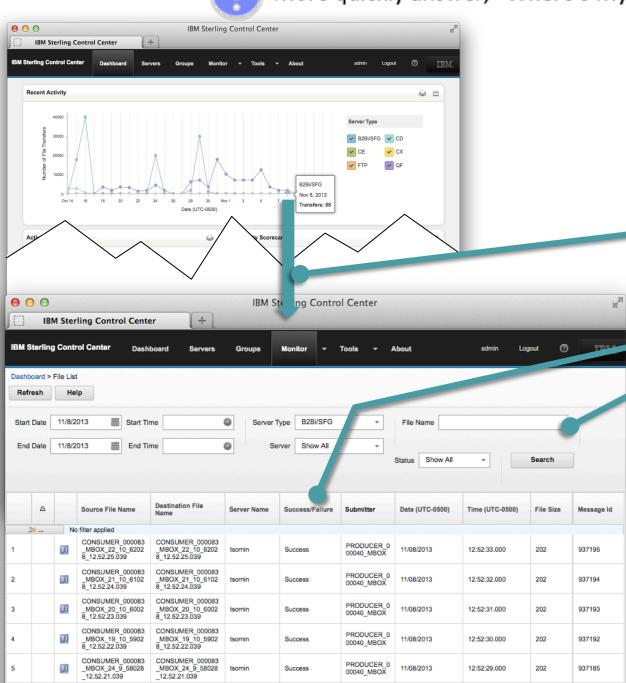


For file-based scenarios (in all products)
Key indicators, right at your fingertips

- •File transfer volume
- Active alerts
- Quality of file transfers
- Environment health



More quickly answer, "Where's My File?"

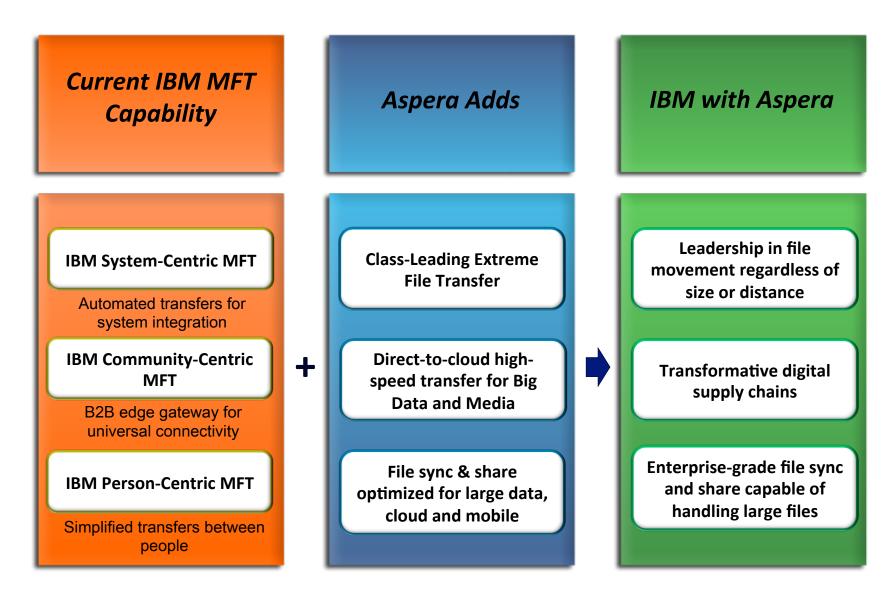


Easily accessible list of files

- Drill-down from the dashboard or menus
- Status
- Quick search



Aspera furthers IBM's Managed File Transfer Leadership





Together we will solve data movement challenges across several initiatives







Big Data & Analytics



Cloud Computing

Challenges involving:

- Size: large files, data sets, structured and unstructured
- Distances: delays with network distance
- Storage: Cloud, On-premise and hybrid
- End-points: apps, mobile, browser
- Sync: massive file systems that change often
- Efficiency: poor bandwidth utilization
- Predictability: variable transfer performance



Summary

- Explosion of digital data is accelerating need to simplify satisfy a broad range of use cases and requirements with the right technology
- IBM's is making it easier for you to leverage the right system-centric file transfer technology with IBM Connect:Direct Advanced and IBM MQ Advanced
- Consistent services for system-centric file transfers improves reliability, reduces complexity, and provides the Governance, Risk Management, and Compliance that your business requires
- Extending your investments in system-centric file transfer with IBM Sterling Connect:Direct and Aspera FASP integration

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