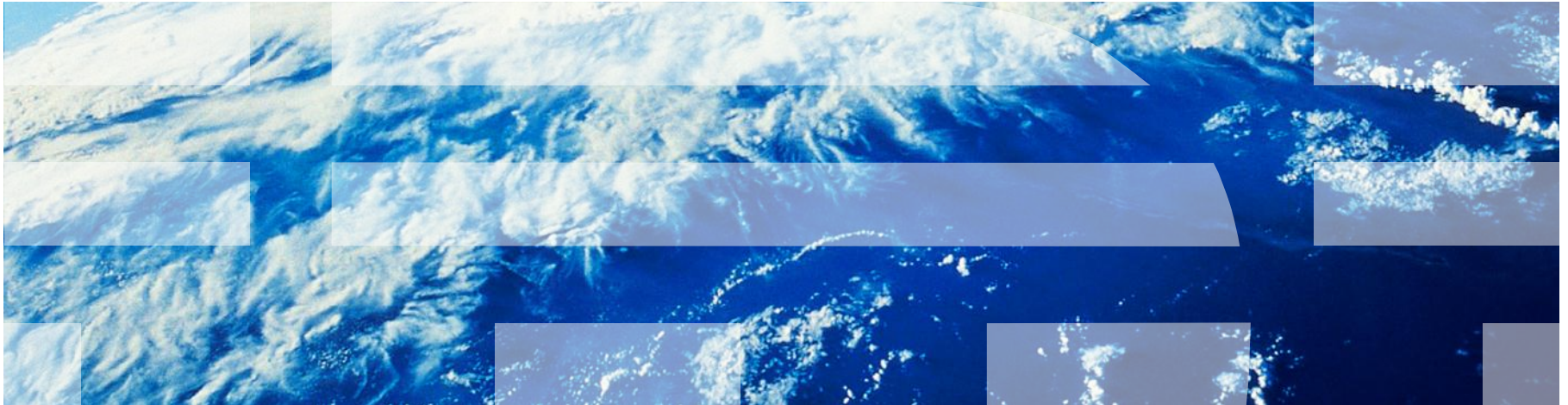


July 26th, 2012

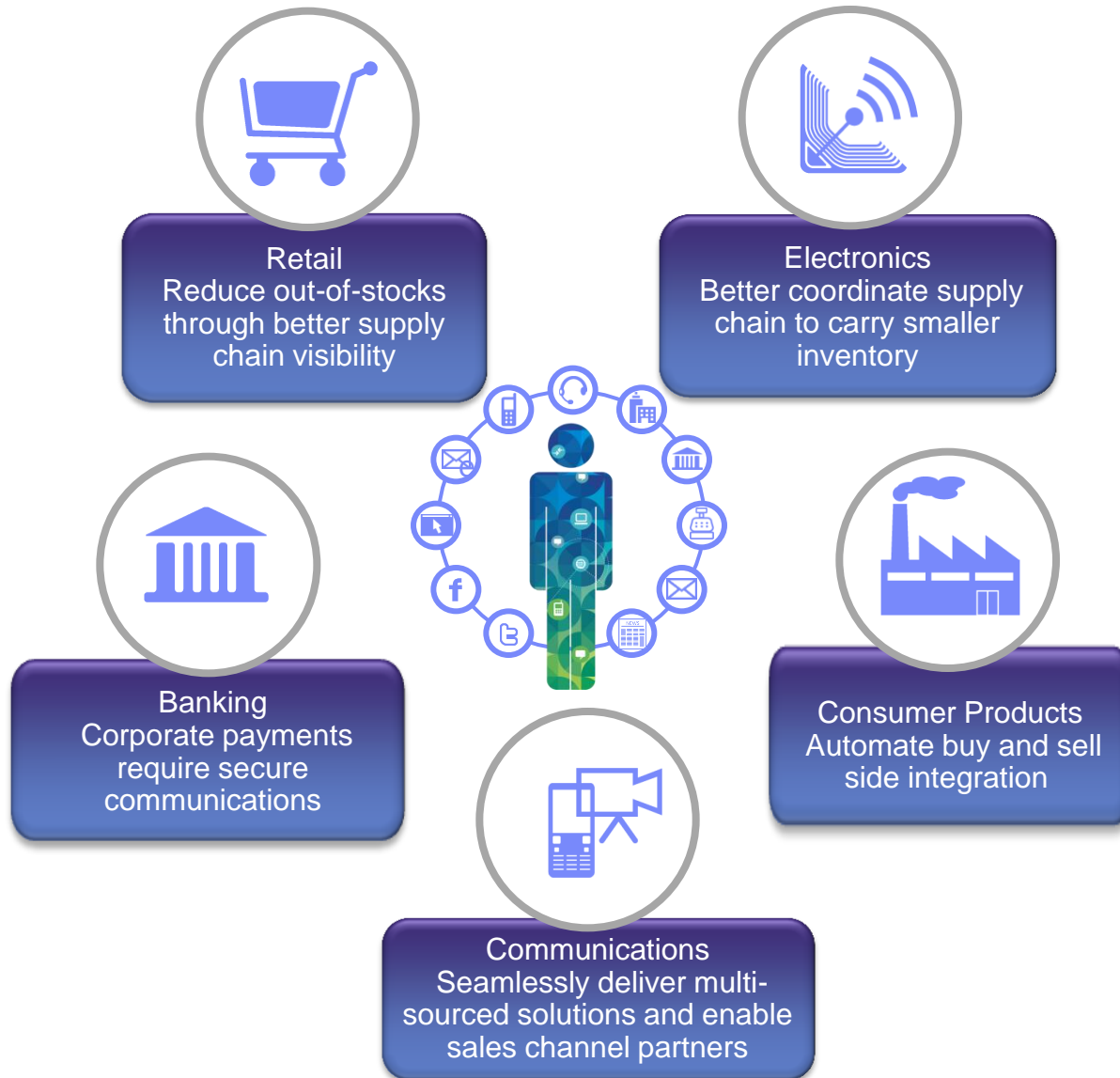


IBM Managed File Transfer

Nagendra Ramachandramurthy – Client Technical Professional, Sterling B2B
Noel Almeida – Business Manager, Sterling B2B



Files Drive the Business Across Industries



FTP Has Hidden Costs and Risks

- **Security**
 - Username/password in the clear
 - Operating System level credentials
 - FTP servers at risk in DMZ
 - Numerous security vulnerabilities
 - Add-on required for encryption (SSH)
- **Reliability**
 - Documented error rates at 8% average
 - Add-on required for checkpoint restart
- **Visibility**
 - Troubleshooting is searching through log files
 - No central management requires manually touching every server
- **Automation**
 - Requires manual scripting for things like;
 - End-of-file check, watch directory, zipping



Which impact your business

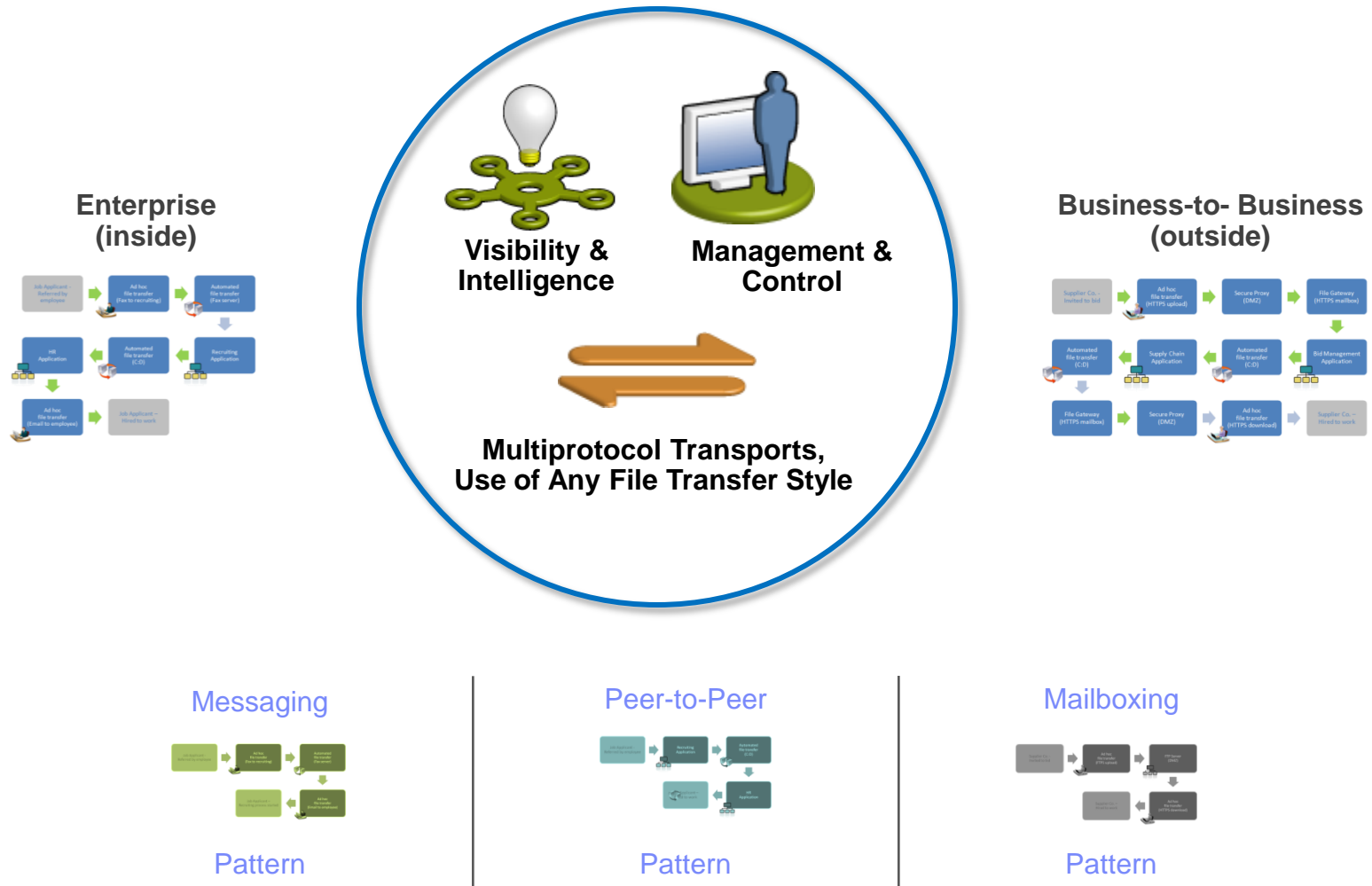
- Failed security audits, and inability to meet new regulations
- Resource constraints to grow the number of connections and achieve needed level of SLA's
- Inefficient transactional processes
- Lack of actionable visibility
- Lack of integration and automation results in manual process steps
- Inability to handle growing file sizes and volumes

FTP fails to meet your growing business requirements

“...as file sizes and the volume of files transferred increased, in combination with the increase in business partners and applications, ...the security..., auditing, process control, monitoring and end-user interface fail to provide the adequate administration of growing FTP solutions”

Thomas Skybakmoen, Gartner Research, FTP Replacement: Where MFT Makes Sense and Why You Should Care, 8 November 2010, ID Number: G00208765

A comprehensive MFT solution with core, shared capabilities that handles many scenarios, and integration patterns



What is Managed File Transfer

- Securely transfer files over public and private networks
- Full featured file transfer processes between external partners, customers, vendors, entities, regulators and exchanges including detection and handling of failed file transfers.
- Integrate with existing applications using documented API
- Auditability and Reporting
- Rapid Onboarding
- Standards Support

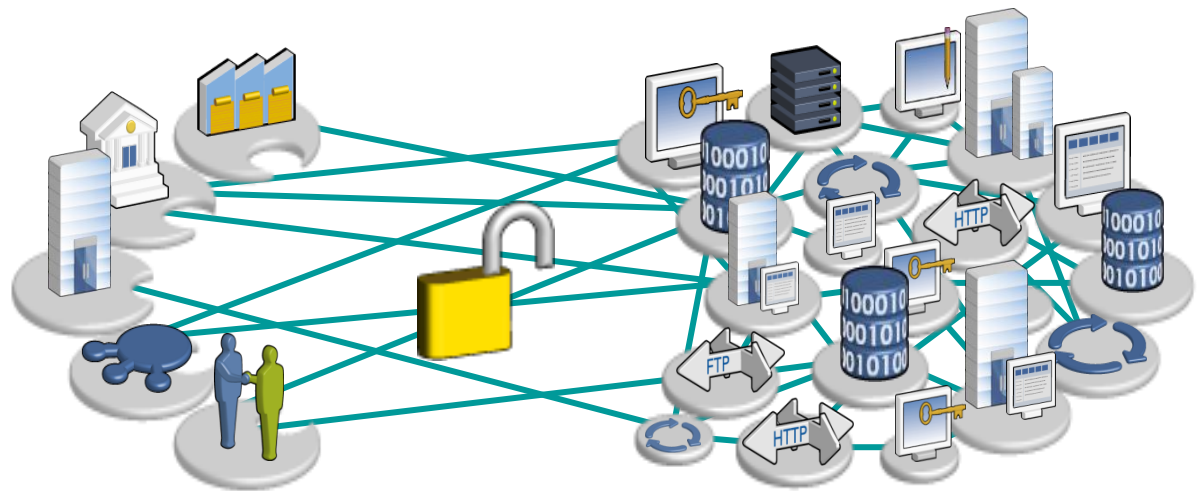
Security for file transfer

- Support for protocols like SFTP,SCP,FTP,FTPS,AS2 etc
- Support for security models like LDAP
- Virtual mailboxes – Store and Forward
- No inbound firewall hole
- Multi factor authentication
- Session breaks in DMZ
- Encrypted Data at rest
- No Data in DMZ
- No configuration information in DMZ

Barriers ...

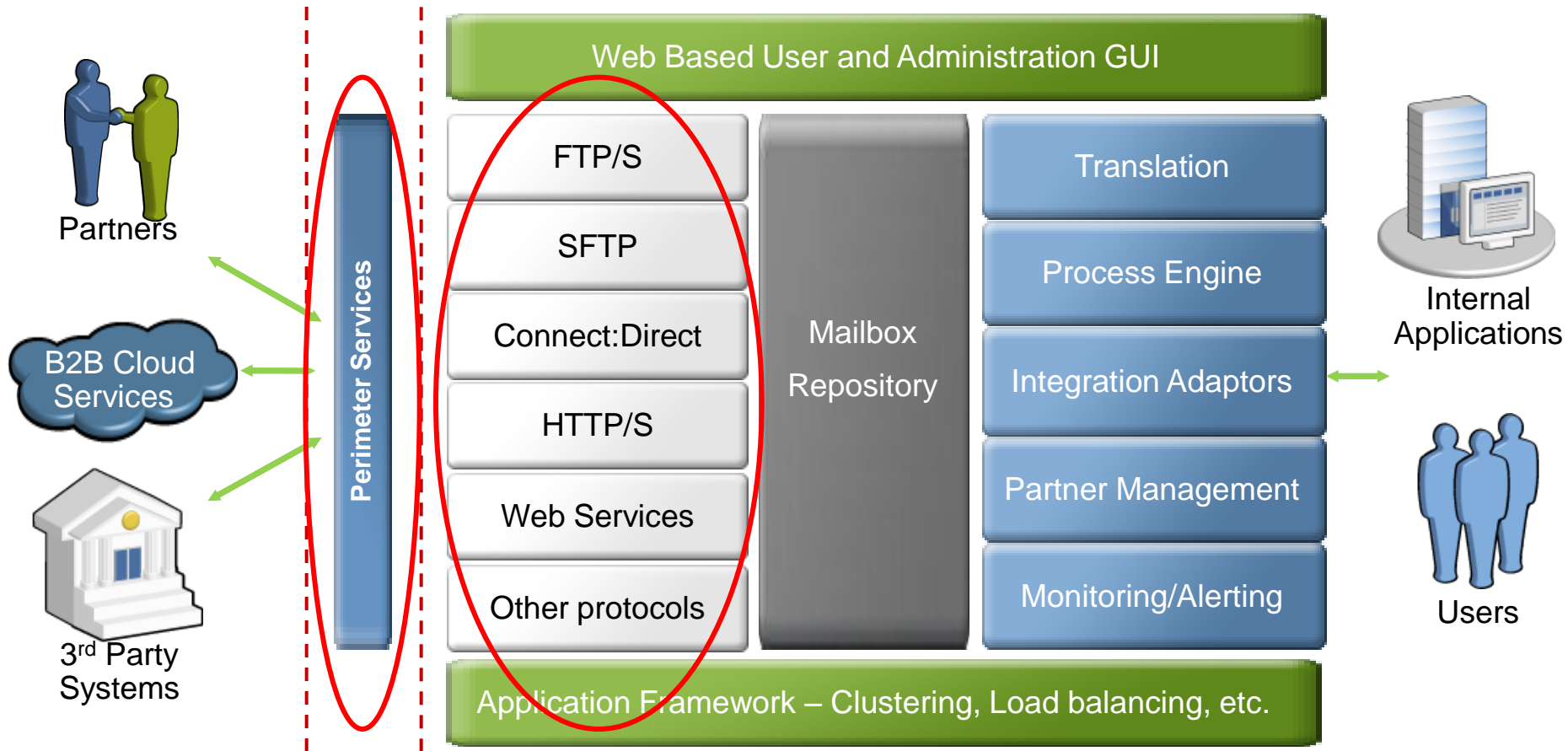
Transactions Are Not Adequately Secured

- Lack of consistent policy enforcement
- Regulatory compliance is not provable
- Sensitive information is not adequately protected
- Lack of non-repudiation mechanism



IBM® Sterling B2B Integrator

Data and perimeter security



IBM® Sterling B2B Integrator provides secured exchange mechanism

- Policy-Based File Transfer
- Secure Internet Protocol
- Advanced Mailboxing
- Data Security
- Role-based Access
- Perimeter Security

Data Flow:7

- PsHttpDocument_node1_20050913144726941
 - HTTP:10.20.80.219
 - AS2:atest123
 - aclovn.xml
 - AS2:atest123
 - Sterling Integrator MDN Response
 - HTTP:10.20.80.219
 - AS2:atest123

Session ID : EDIINTParse_11266408482893:61

AdapterName : EDIINTParse **AdapterType** : EDIINTMessageService

Protocol : AS2 **Principal** : null

Remote EndPoint : atest123 **Remote EndPort** : 0

Local EndPoint : atest123 **Local EndPort** : 0

Locally Initiated : false **Perimeter Server** : null

Start WF ID : 1044 **End WF ID** : 1044

Start WF Step : 1 **End WF Step** : 1

Start Time : 2005-09-13 14:47:26.0 **End Time** : 2005-09-13 14:47:30.0

Authentication Events

Status	Principal	Credential Type	Credential	Remote Authentication	Time
	atest123	CONTRACT	sender	false	2005-09-13 14:47:30.0

Authorization Events

Status	Principal	Resource Type	Resource	Action Type	Time	Error Message
	atest123	CONTRACT	atest	access	2005-09-13 14:47:30.0	

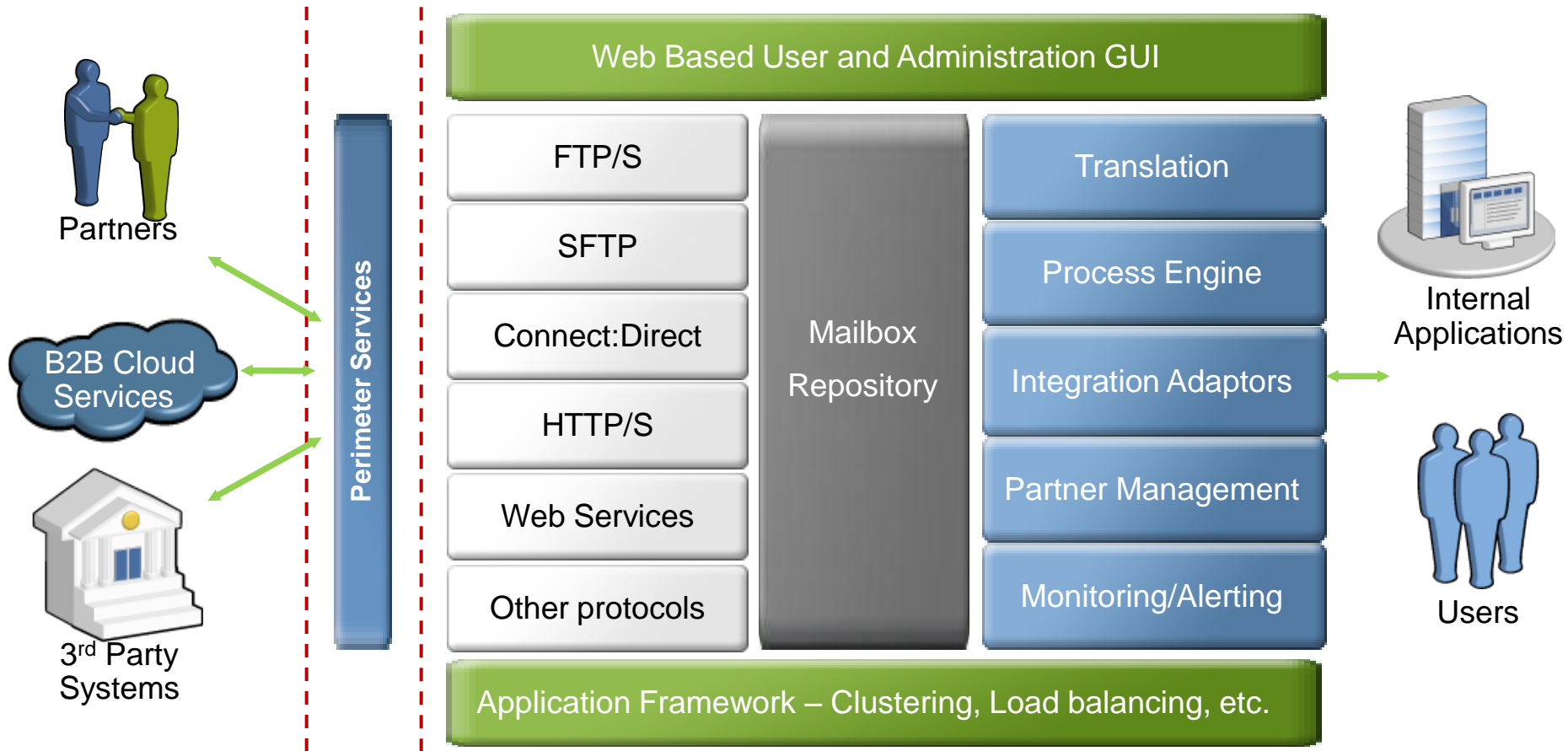
Non Transfer Events

Status	Type	Value	WF ID	Start Time	End Time	Error Message
	processFile	Sterling Integrator MDN Response	1044	2005-09-13 14:47:29.0	2005-09-13 14:47:29.0	
	transactionId	kellvey-l:15fc1815:10650bcaa25:-6101	1044	2005-09-13 14:47:29.0	2005-09-13 14:47:29.0	
	processFile	PsHttpDocument_node1_20050913144726941	1044	2005-09-13 14:47:30.0	2005-09-13 14:47:30.0	
	processFile	aclovn.xml	1044	2005-09-13 14:47:30.0	2005-09-13 14:47:30.0	

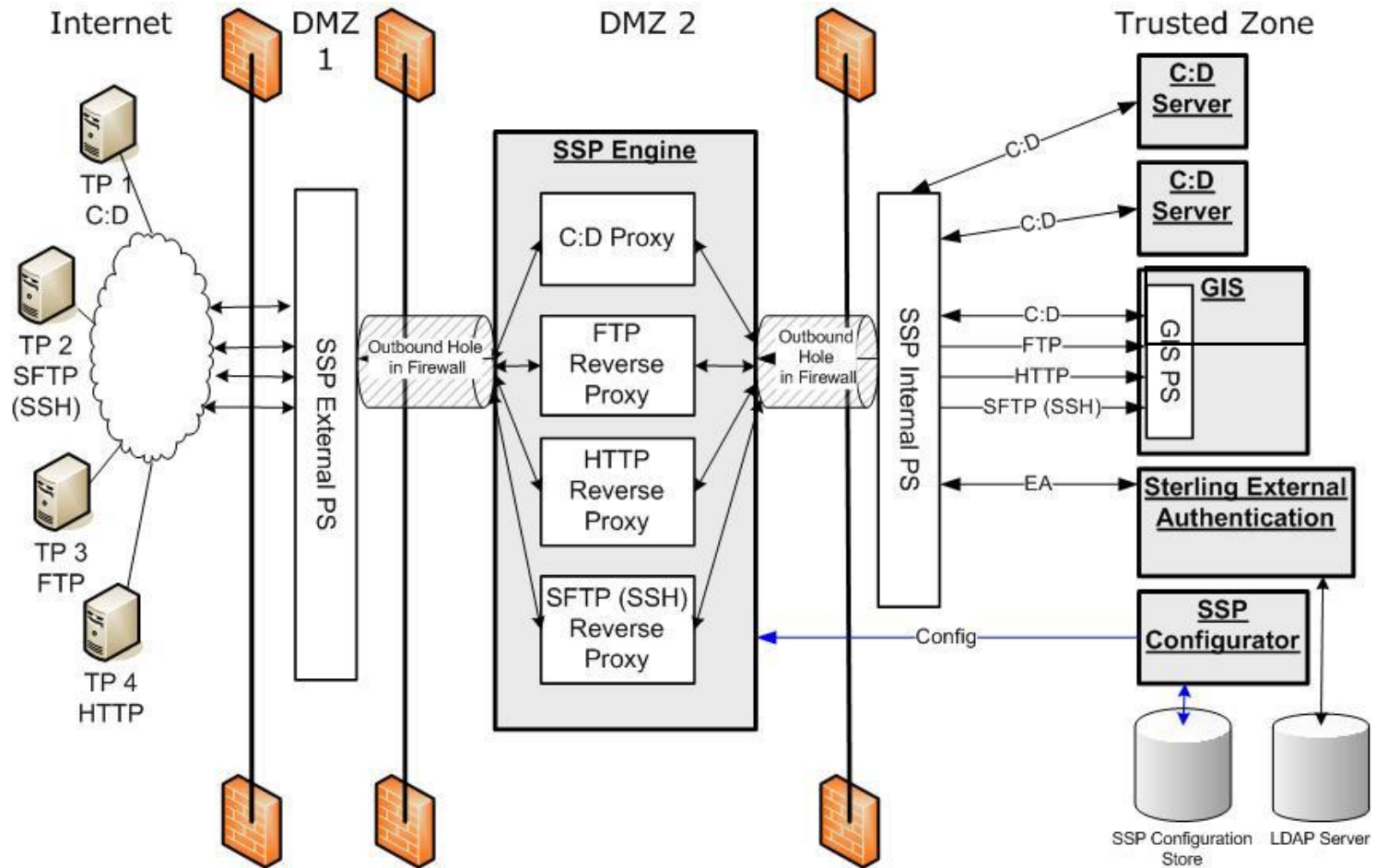
© 2001-2004 Sterling Commerce, Inc. [Trade Secret Notice](#) [About Help](#)

IBM® Sterling B2B Integrator

Modular, Secure, B2B Gateway



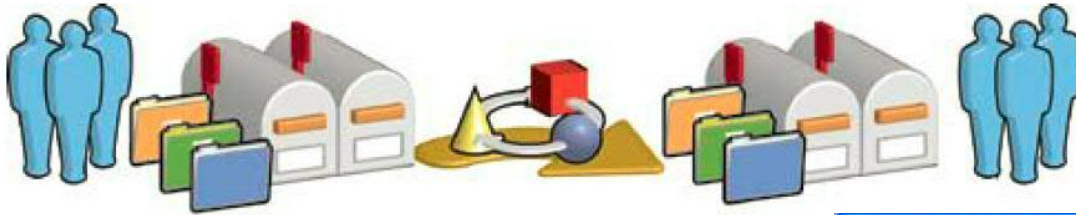
Security



Full featured file transfer processes

- Support for very large files (in GB's) – Check point restart
- High Availability
- Protocol Conversion
- Globalise (reuse) File transfer patterns
- Policy based transmission
- Content based routing/File name based routing
- Event based file transmission/Schedules
- Error Handling/Notifications/Replay of files
- Self Service Partner portal
- SLA management

File-centric Automated Processing



File Gateway Routing Channel

The screenshot shows the IBM Business Process Manager (BPM) interface. The top window displays a workflow diagram for 'PQ_ClassExercise.bp'. The workflow starts with a 'CheckTotal' event, which branches into 'Greater Than' and 'Less Than' conditions. The 'Greater Than' path leads to an 'Assign' task, followed by a 'HumanInteraction' event. The 'Less Than' path leads to a 'Translation' service, which is highlighted with a blue box. This service is followed by a sequence of SFTP Client services: 'SFTP Client Begin Session Service', 'SFTP Client CD Service', 'SFTP Client PUT Service', and 'SFTP Client Session Service'. Below the workflow diagram, the 'Service Editor-Translation' window is open, showing the configuration for the 'Translation' service. The 'Message To Service' and 'Message From Service' tabs are visible. The 'Output Msg' is set to 'Obtain Message first, then Process Data' and the 'Message Name' is 'TranslationTypeInputMessage'. A table lists various message fields and their configurations.

Name	Value	Use XPATH?	Append?
exhaust_input		<input type="checkbox"/>	<input type="checkbox"/>
map_name	ACH_820_003020_to_CTX_Fiel...	<input type="checkbox"/>	<input type="checkbox"/>
output_report_to_proce...	Yes	<input type="checkbox"/>	<input type="checkbox"/>
output_to_process_data		<input type="checkbox"/>	<input type="checkbox"/>
useStreams		<input type="checkbox"/>	<input type="checkbox"/>
validate_input		<input type="checkbox"/>	<input type="checkbox"/>

Integration/Extensibility

- With Databases
- With PGP processes
- Inflight translation
- Integrated zip processing
- Custom protocols like – Webservices, Websphere MQ, File System etc
- Lookups for value addition to file transfer process
- More than 200 out of the box adapters

Full featured File transmission and quick problem resolution

IBM Sterling File Gateway Welcome fg_sysadmin

Routes | Participants | Tools | Profile | Help | Sign Out

Search Criteria | Arrived File | Route | Delivery Times shown in local time zone [Change to server time zone](#)

Status	Consumer	Start Time	Completion Time
Failed	Demo_OrderManagement	08/19/2011 11:57:15	08/19/2011 11:57:16

Business Process Detail

Name: FileGatewayRoutePGPUnpackageDocument Instance ID: 62007 S
 Deadline: None Contract ID: None

Steps 1-2 of 2

Step	Service	Status	Advanced Status	Started	Ended
0	Launched by File Gateway	Success	None	08/19/2011 11:57:16 AM	08/19/2011 11:57:16 AM
1	PGP Unpackage Service	Error	View exception in status report	08/19/2011 11:57:16 AM	08/19/2011 11:57:16 AM

Route Events

Event Code	Time	Description
FG_0412	08/19/2011 11:57:16	Route has Started with payload 'storedataNogood.txt.pgp'.
FG_0401	08/19/2011 11:57:16	Fact discovered: myfileBasename = '{storedataNogood.txt}'.
FG_0602	08/19/2011 11:57:16	Extracting producer file with 2 layer(s): PGP Decryption{(,+)\\.pgp)/Text{+,}
FG_0201	08/19/2011 11:57:16	Starting BP 'FileGatewayRoutePGPUnpackageDocument' to extract PGP layer with (or as a child process of) workflow [62007] and parameters: FGRoutePGPCmdLineSocketTimeout, PGPPProfile, SourceDocId, WorkingDocName, DecryptionKeyId. Click to see parameter values.
FG_0250	08/19/2011 11:57:16	ERROR: Failed BP 'FileGatewayRoutePGPUnpackageDocument' to extract PGP layer with workflow [62007].
FG_0650	08/19/2011 11:57:16	Extract PGP layer failed for file storedataNogood.txt.pgp with error Execution of bp [FileGatewayRoutePGPUnpackageDocument] failed, wfid:62,007..
FG_0456	08/19/2011 11:57:16	Route is now failed while Started with error message: Execution of bp [FileGatewayRoutePGPUnpackageDocument] failed, wfid:62,007..

Administration - Windows Internet Explorer

http://127.0.0.1:5000/ws/Page?bpID=62007&next=page.showbpdetail&summaryPageType=...

Status Report

Name: FileGatewayRoutePGPUnpackageDocument Instance ID:62007 Service Name: PGP U

```
Exception in CmdLine2Thread
Expected file to collect does not exist: C:\SI52\install\wd_Thread-17_13...

stdout=File is not a PGP file!

stderr=Pretty Good Privacy(tm) Version 6.5.8
```

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File name format: \${ProducerFilename}

+ Create
 ✎ Edit
 📄 Copy
 ✖ Delete

Visibility/Reporting

- Central management of all file transmission
- Single Dashboard
 - Arrived file
 - Routing
 - Delivered file
- Partner visibility
- Reporting
- SLA management
- Ease of Problem resolution

Quick problem resolution

IBM Sterling File Gateway
Welcome fg_sysadmin

Routes | Participants | Tools | Profile | Help | Sign Out

Search Criteria | Arrived File
Times shown in local time zone [Change to server time zone](#)

Arrived File

Producer :

Producer Code :

Producer Group :

IP Address :

User :

Protocol :

Original File Name :

File Size (Min) : kb

File Size (Max) : kb

Status :

Reviewed :

Mailbox Message ID :

Mailbox Path :

Dataflow ID :

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Route

Consumer :

Consumer Code :

Consumer Group :

Template Name :

Facts :

Fact Value :

Status :

Delivery

IP Address :

User :

Protocol :

Delivered File Status :

Delivered File Name :

File Size (Min) : kb

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Mobile Support



Other Features

- Rapid Onboarding
 - Centralised onboarding
 - Specialized roles
 - Certificate/Keystores inbuilt

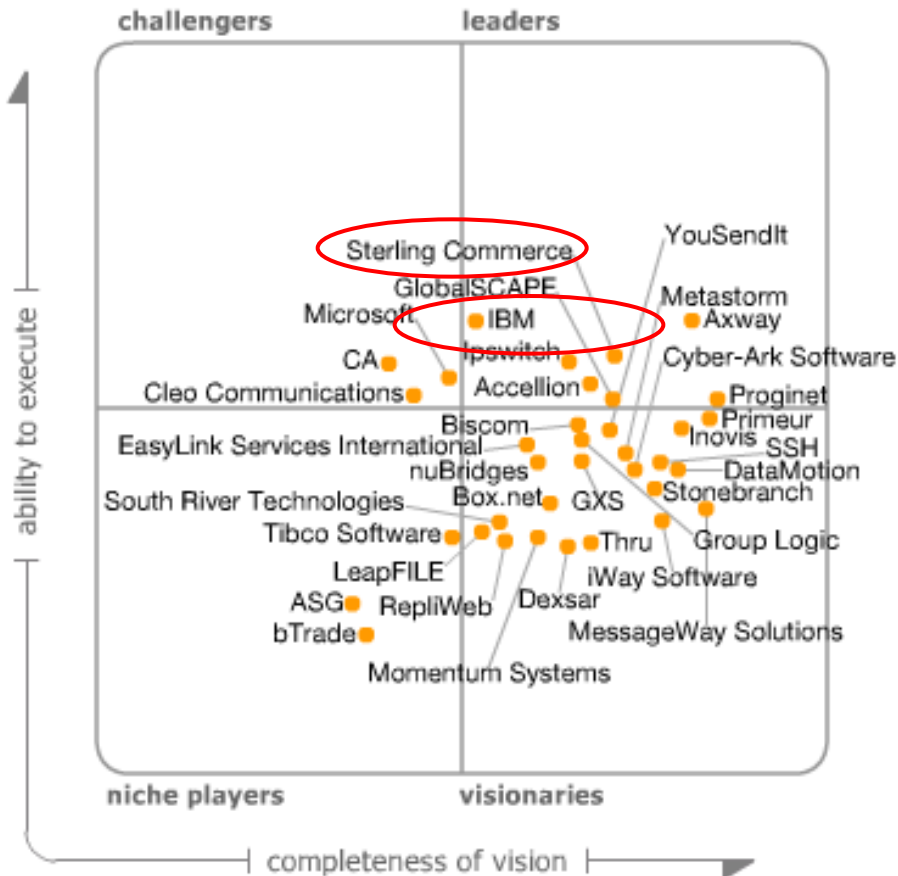
- Integrated Standard Support
 - Any format –to- Any format
 - SWIFT
 - FIX
 - XML
 - Etc....

Rapid Onboarding

Profile	
Partner Name:	Demo_BillingSystem
Partner Code:	Demo_BillingSystem
Address:	
Phone:	123456789
Email Address:	user1@si.com
edit	
User Account	
User Name:	demo_billingsystem
Authentication Type:	Local
Given Name:	Demo
Surname:	BillingSystem
edit	
Protocol	
Partner Role:	Producer of Data, Consumer of Data
Connection Direction:	Listen Connection
Transport Method:	FTPS
Connection Type :	active
FTP Server Host Name(or IP address):	127.0.0.1
FTP Listen Port:	2021
User Name:	sterlingftp
Password:	*****
Base Directory:	/
Local Port Range:	0
Control Port Range:	0
Number of retries:	3
Interval between retries (in minutes):	1
Encryption strength:	ALL
Use CCC:	no
Use Implicit SSL:	no
Assigned CA Certificates:	FileZilla Public Cert
Does Demo_BillingSystem require data to be signed by the Router :	Yes

Gartner Magic Quadrant for

File Transfers



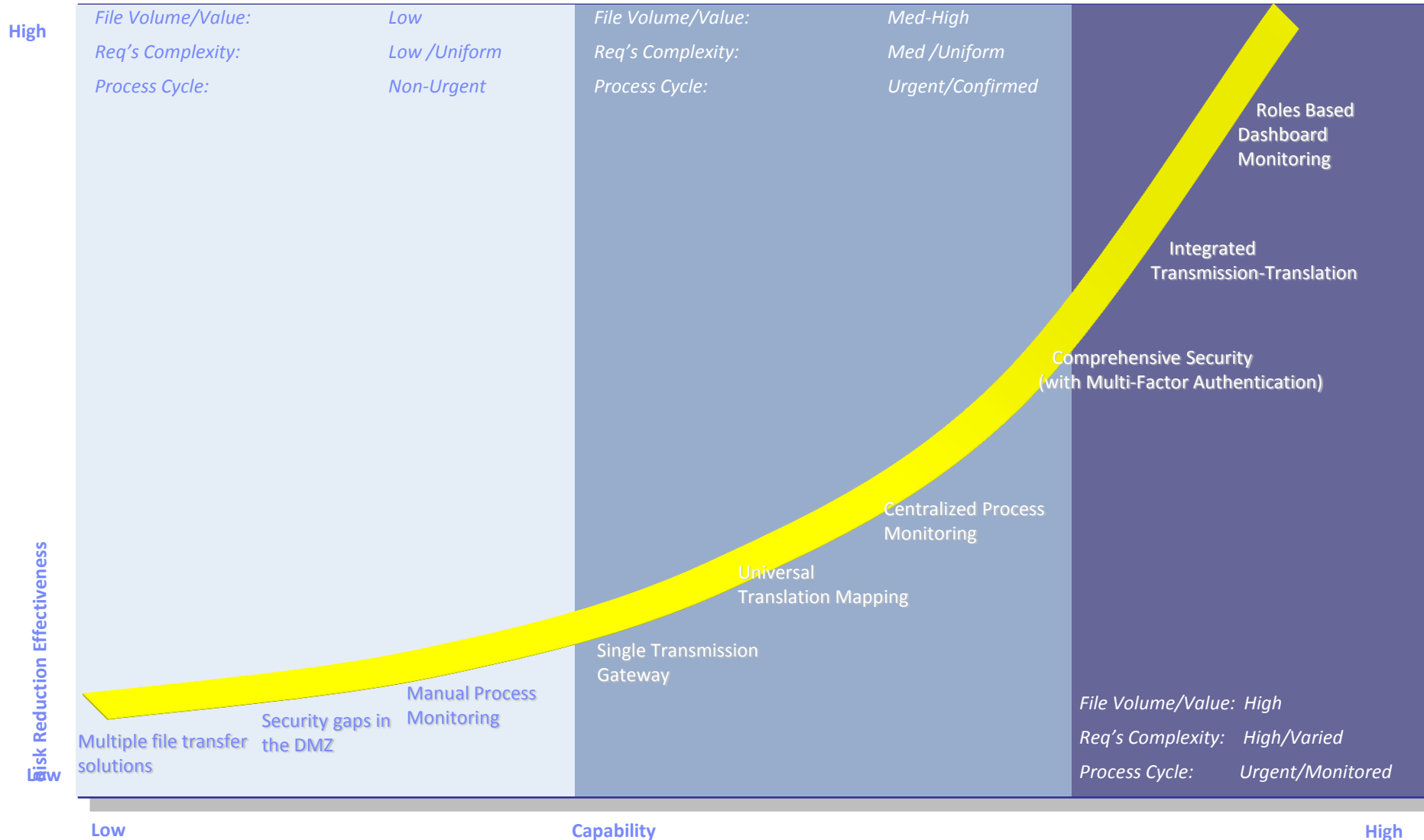
As of September 2009

B2B Providers

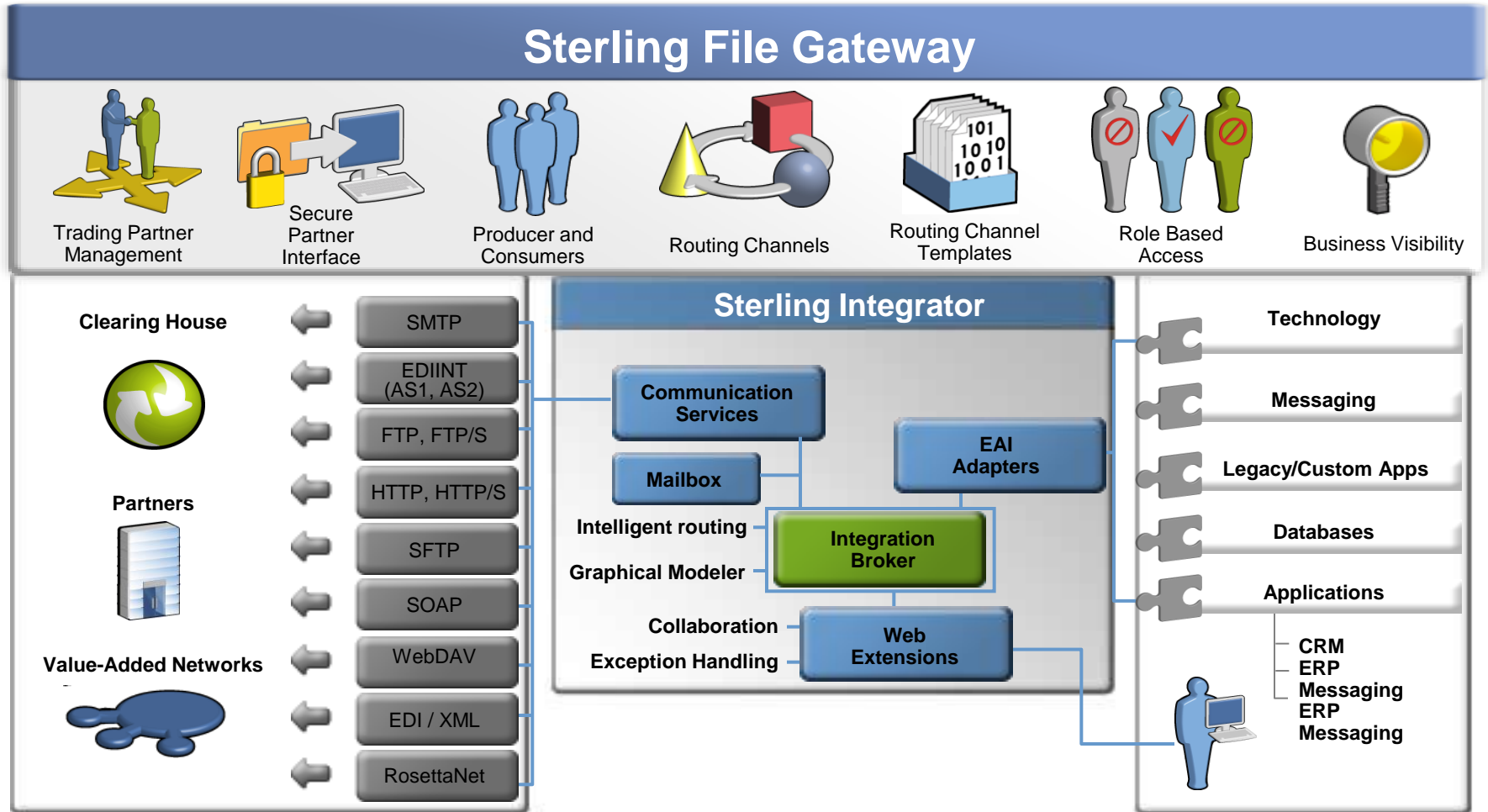


As of May 2008

SunTrust's capabilities for file transfer does not adequately address its operational risks



Sterling File Gateway Solution Footprint

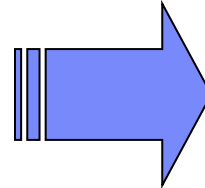


Smarter File Transfer with Sterling MFT

NEVER BREACHED

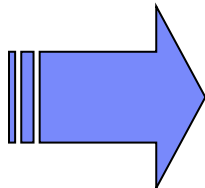
Upgrade, replace, and/or consolidate your at-risk FTP processes in alignment with your overall strategy for managing business critical data movement.

Failed Security Audits



Monitor Transactions
Prove/report on file activity
Mitigate process disruptions
Improved client sat (locate file)

FTP Security Risk



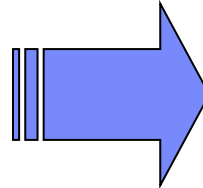
Prove and report file-based activity
Comply with FIPS, Common Criteria
Secure proxy with CRL, LDAP etc

Smarter File Transfer with Sterling MFT

NEVER BREACHED

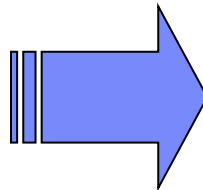
Upgrade, replace, and/or consolidate your at-risk FTP processes in alignment with your overall strategy for managing business critical data movement.

No reliability or automation



Secure A2A, OS to OS, SOA and external partner file transfer automation with < 0.003% fail rate
Scalable for extreme growth, size
Rapid partner on-boarding

No visibility or governance



Impose access control
Capture all events
Exhaustive but easy reporting

THANK YOU