DataPower XI50z

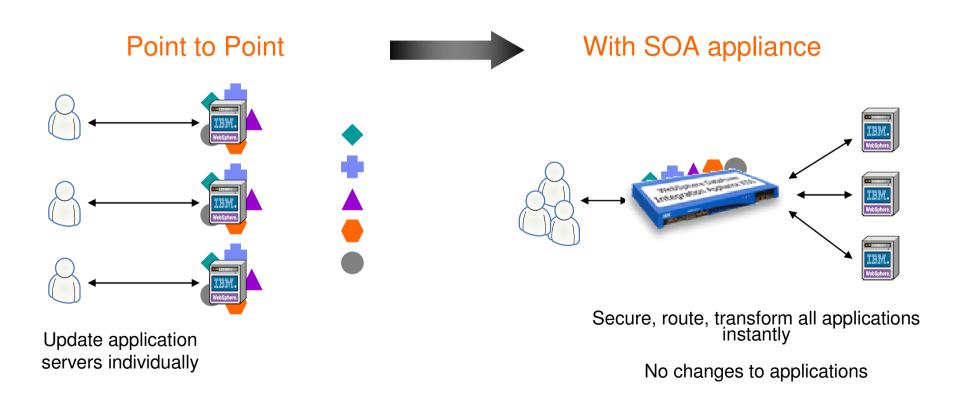


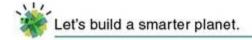


Smarter Banking Showcase Team WW Banking Centre of Excellence, IBM Montpellier

The role of an SOA appliance

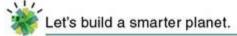
- As an ESB (Enterprise Service Bus) to route, transform, and help secure multiple applications without code changes
- Lower cost and complexity
- Enable new business with unmatched performance





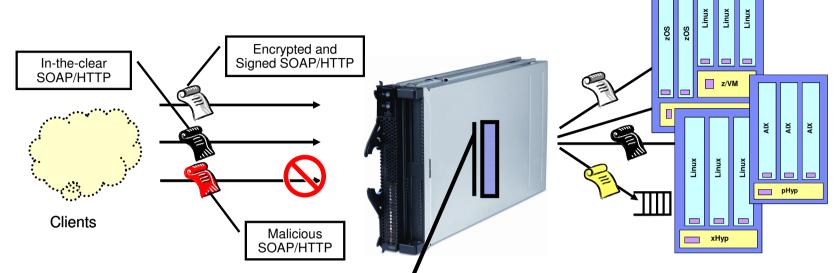


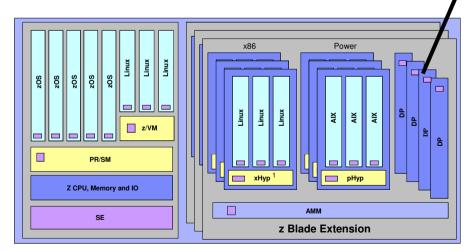
How DataPower is used today WebSphere. DataPower XI50 IRM Configure an Access Control Policy Help AAA Policy Name: IdProp Define how to authenticate the user. Accept a SAML Assertion with a Valid Signature Accept an LTPA token. Bind to Specified LDAP Server Contact a SAML Server for a SAML Authentication Statement Contact a WS-Trust Server for a WS-Trust Token Contact ClearTrust Server Contact Netegrity SiteMinder Contact NSS for SAF Authentication Custom Template Method Pass Identity Token to the Authorize Step Retrieve SAML Assertions Corresponding to a SAML Browser Artifact Ouse an Established WS-SecureConversation Security Context Ouse certificate from BinarySecurityToken Duse DataPower AAA Info File Ouse specified RADIUS Server Validate a Kerberos AP-REQ for the Correct Server Principal Validate the Signer Certificate for a Digitally Signed Message. Validate the SSL Certificate from the Connection Peer Signature Validation DPDevCACryptoValidationCred Credentials XPath Expression XPath Tool XPath Bindings Retrieve Remote on off WS-Sec Token





DataPower XI50z





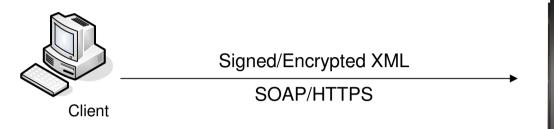
zEnterprise

Additional benefits XI50z

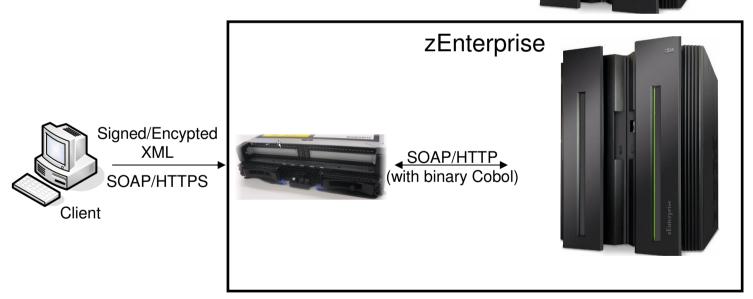
- Fast secure network between DataPower blade and target servers
- Virtual Network Provisioning
- Dynamic Load Balancing (via Sysplex Distributor)
- HMC Console Integration
- Blade hardware management
- DataPower Firmware Load and Update
- Monitoring and Reporting



Legacy Enablement: XML Parsing, binary transformation and Security



Significant CPU consumption for XML processing

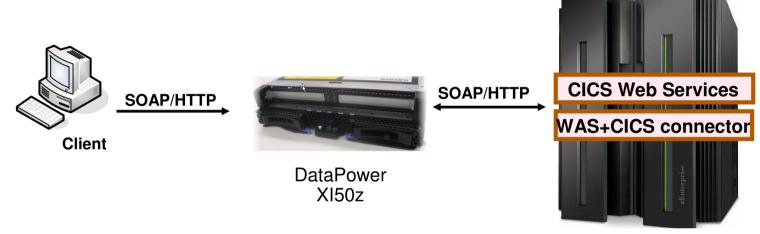


Reduced CPU consumption for XML processing

- Backend can be anything: CICS, IMS, WAS, Message Broker.....
- Connection can be anything: binary over MQ, SOAP....

CICS Integration (1)

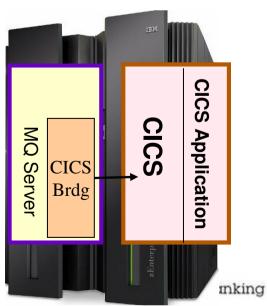
Security and Management for CICS Web services



CICS Integration (2)

DataPower provides Web service enablement

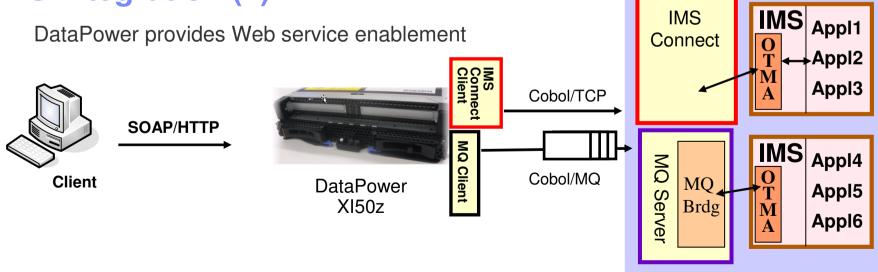




IMS Integration (1)

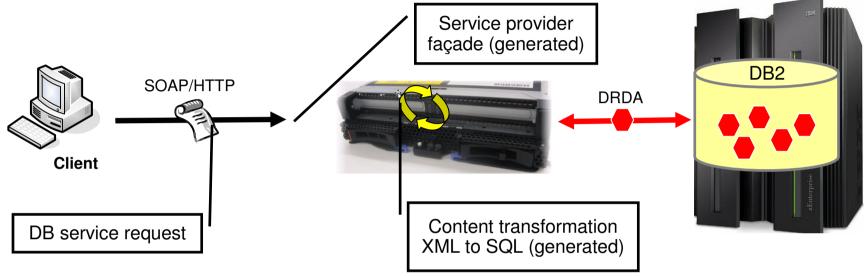
Security and Management for IMS Web services **IMS SOAP Gateway** SOAP/HTTP SOAP/HTTP **WAS+IMS** connector Client **DataPower** XI50z **IMS**

IMS Integration (2)



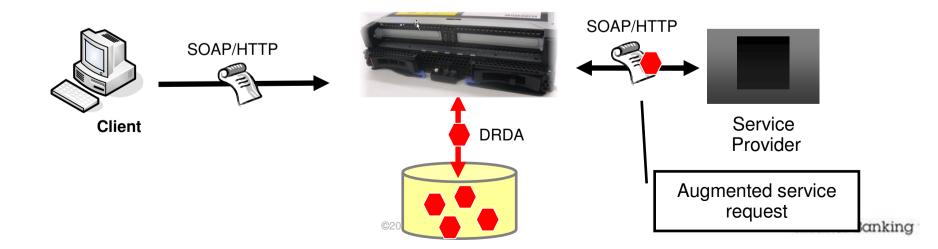
DB2 Integration (1)

DataPower provides enablement for Data Web services



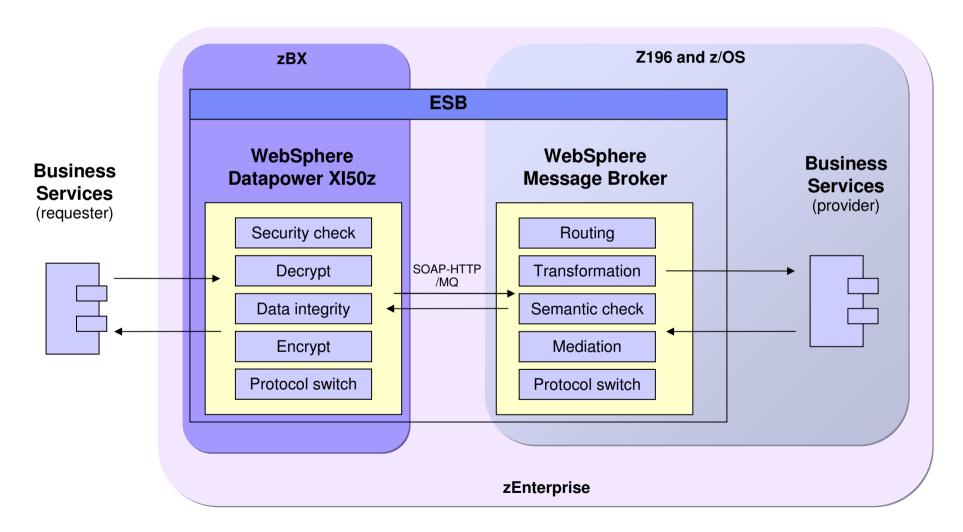
DB2 Integration (2)

Web service requests are augmented with information from the database

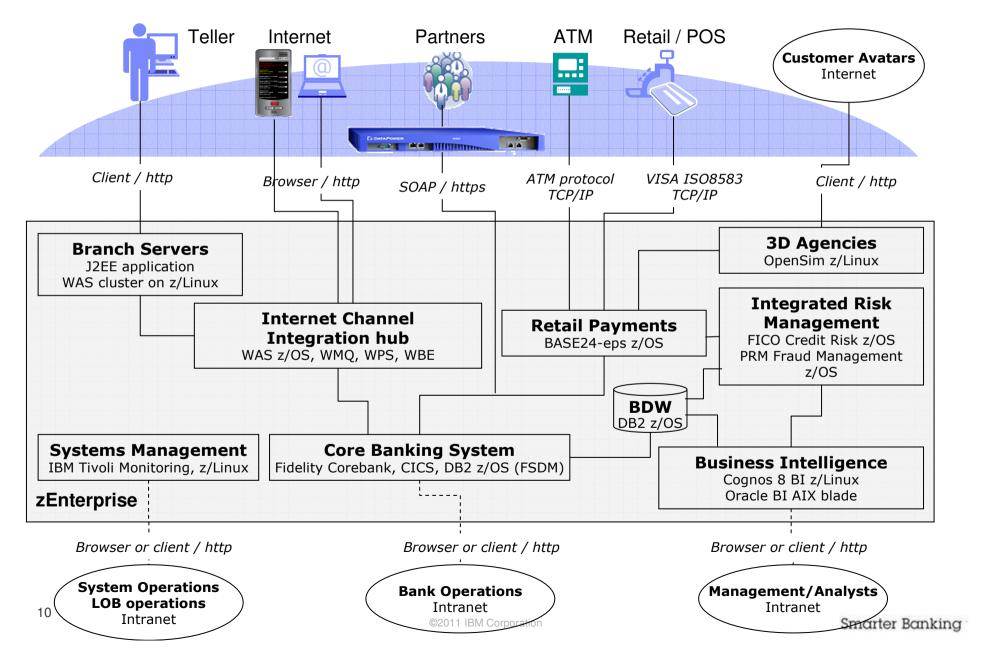




Federated ESB use case

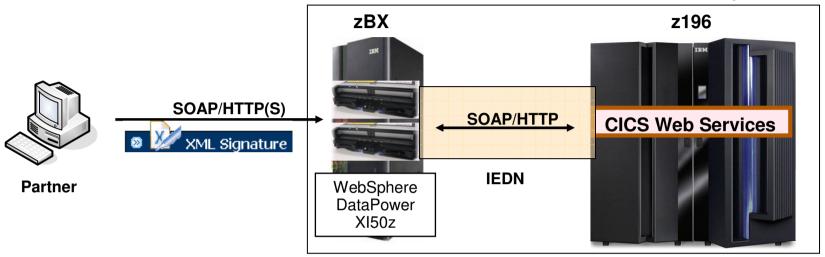


How DataPower is used in showcase

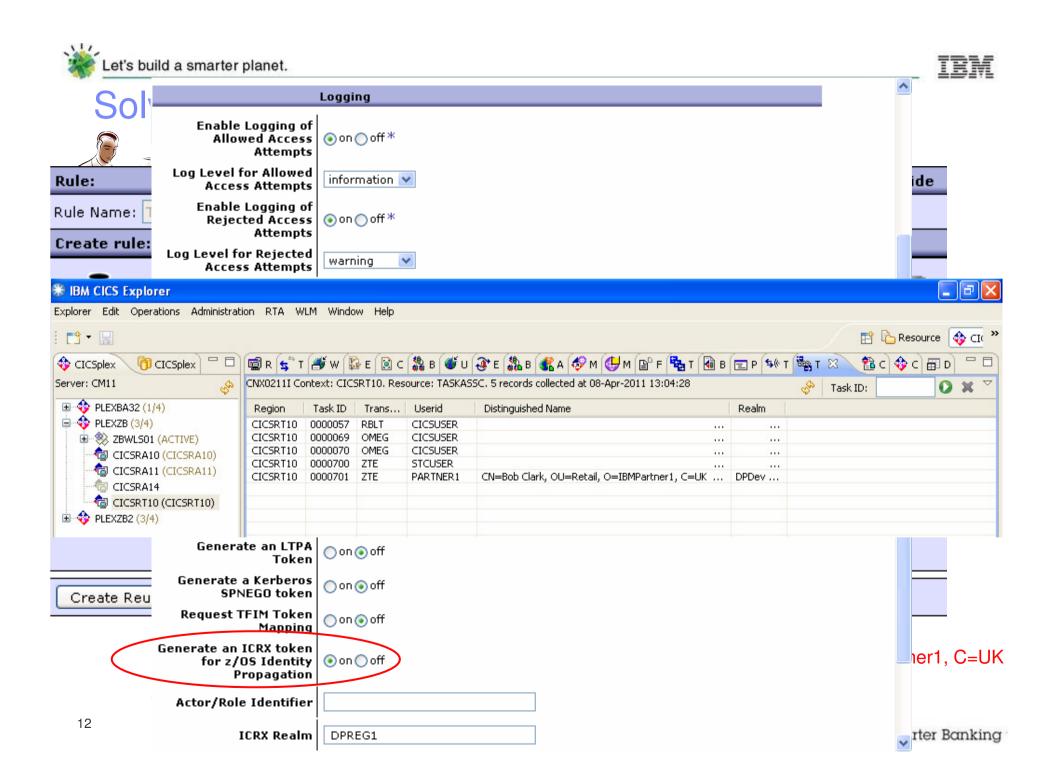


Enabling Core banking Web services

zEnterprise

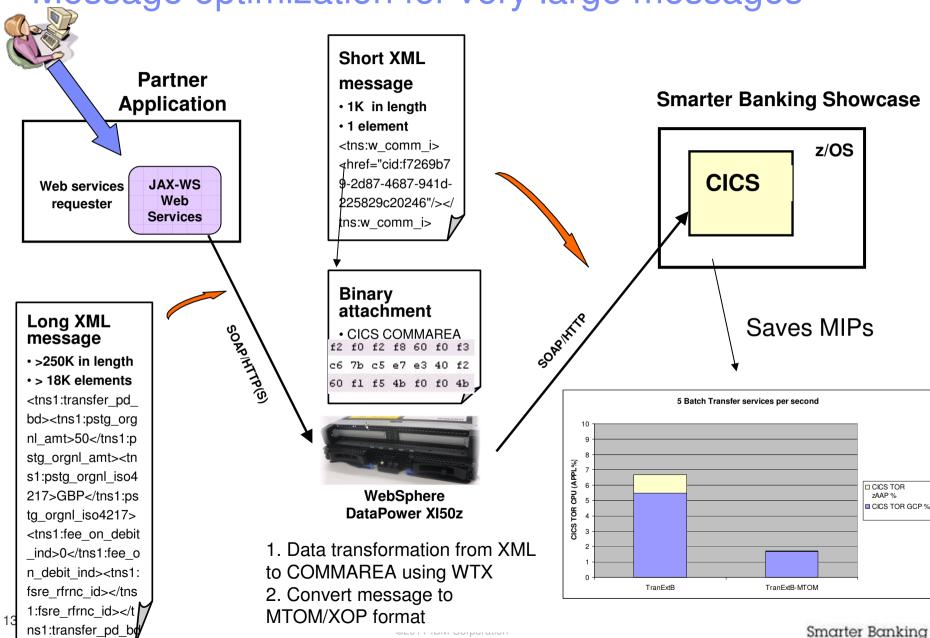


Security	Data transformation	Monitoring
XML digital signature and propagate identity (DN) to CICS	None	ITCAM for SOA and ITCAM Agent for DataPower for service monitoring
XML digital signature and propagate identity (DN) to CICS	None	ITCAM for SOA and ITCAM Agent for DataPower for service monitoring
BasicAuth over SSL and propagate identity (DN) to CICS	Transform XML body into CICS binary Container and transport using MTOM/XOP	ITCAM for SOA and ITCAM Agent for DataPower for service monitoring
	XML digital signature and propagate identity (DN) to CICS XML digital signature and propagate identity (DN) to CICS BasicAuth over SSL and propagate identity (DN)	Security XML digital signature and propagate identity (DN) to CICS XML digital signature and propagate identity (DN) to CICS BasicAuth over SSL and propagate identity (DN) to CICS Transform XML body into CICS binary Container and transport using

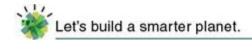




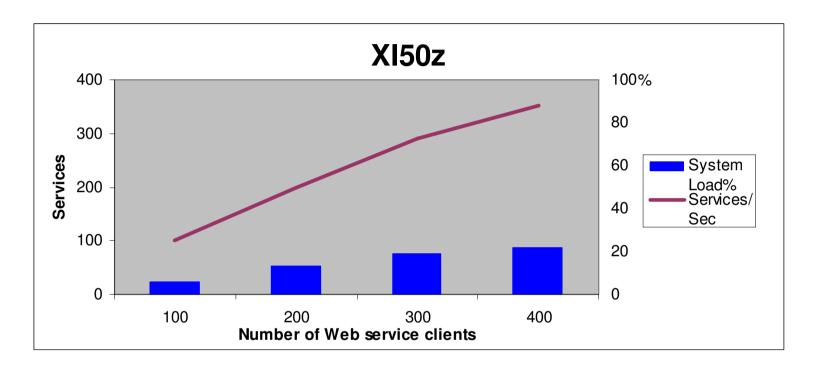
Message optimization for very large messages



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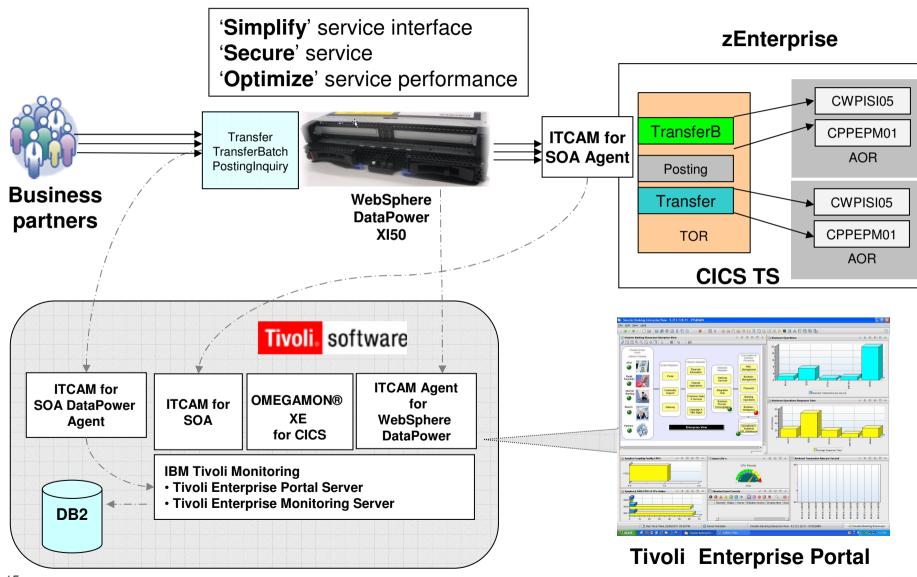
PostingInquiry and Transfer Web services

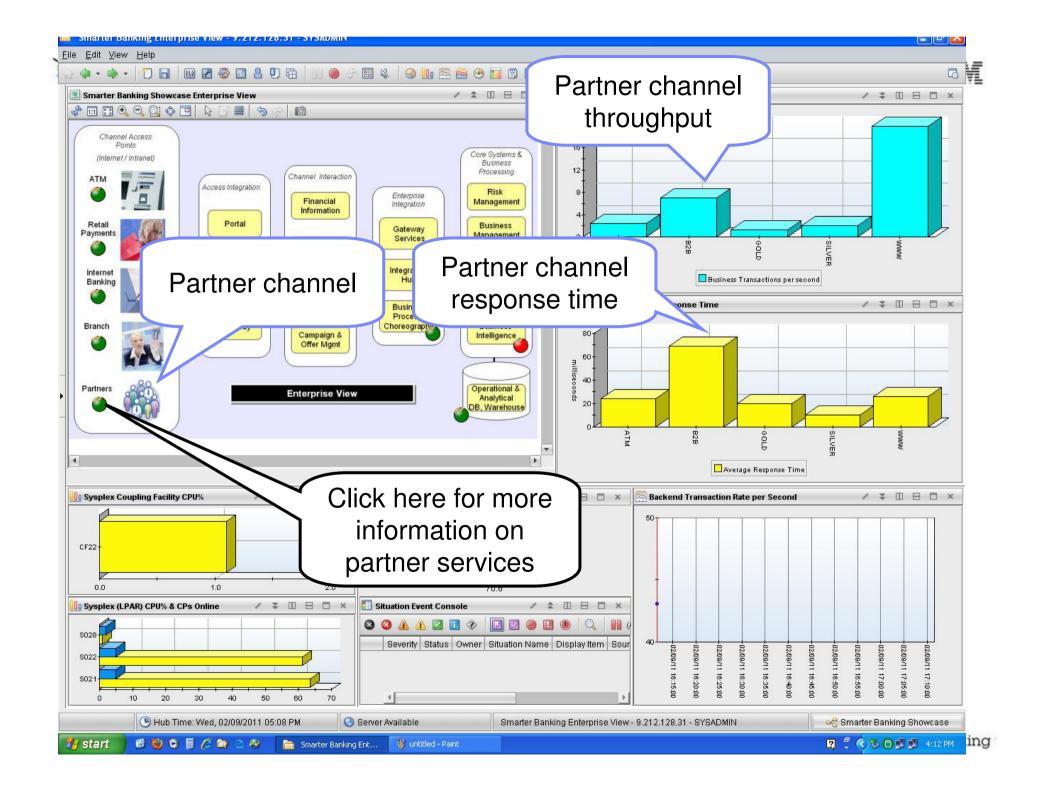


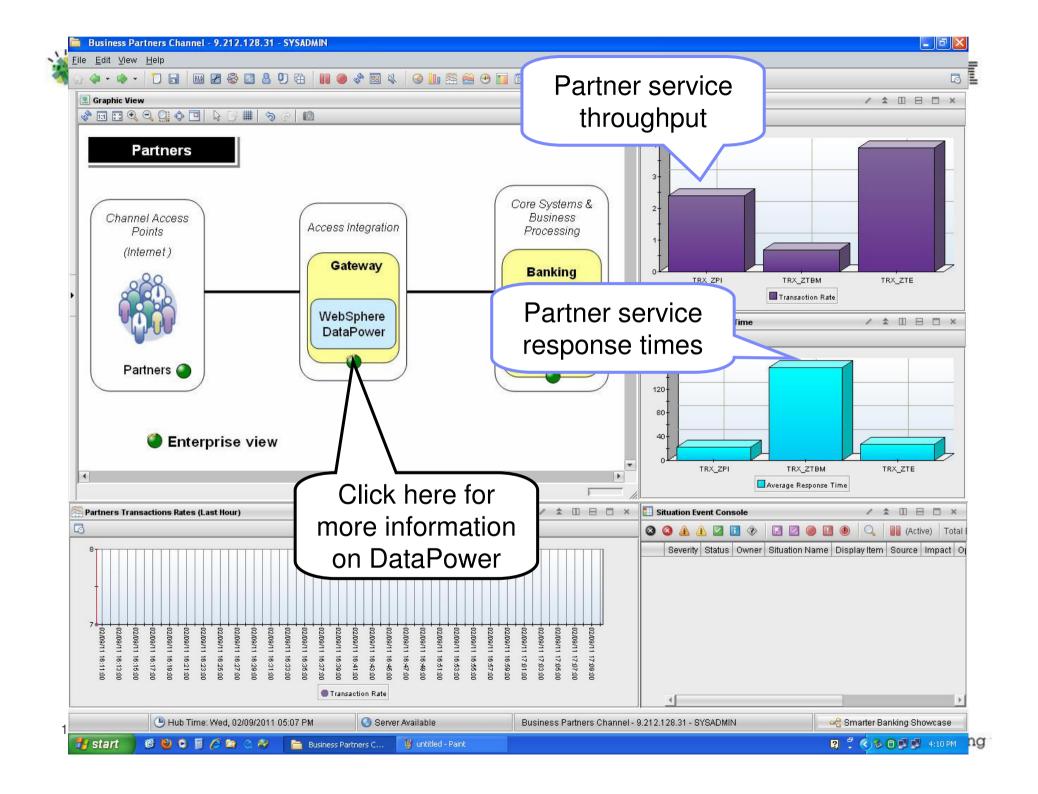
# Users	Web services/sec	CICS	DataPower	End user	DataPower
		RT ms	RT ms	RT ms	System Load %
100	100	19	23	47	6
200	200	22	25	48	13
300	290	23	30	50	19
400	352	30	40	60	22

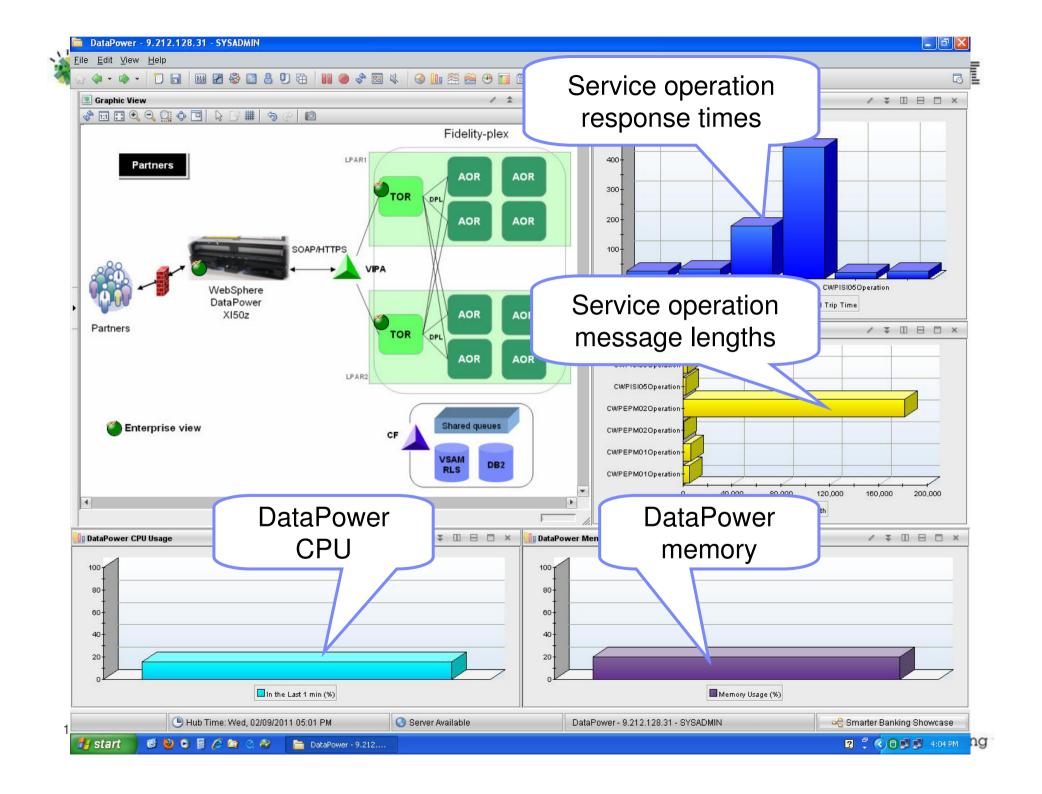


Service monitoring









XI50z positioning and added value

Accelerates time to value

Enables connectivity infrastructure with ESB capabilities

Integrates with System z assets including CICS, IMS and DB2



Secures SOA, Web 2.0 and cloud environments

Governs your evolving IT architecture



Increases scalability and throughput

Consolidates datacenter footprint

Reduces power consumption by up to 35%

Lowers TCO through simplified management and lower power cost

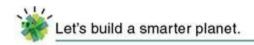
Secures physical integration of DataPower and virtual servers within zEnterprise through use of high speed private network

Extends ESB integration across the zEnterprise



Centralizes installation, operations and management of DataPower blade using zManager

Improves support with zManager monitoring and automatic "call home"



Additional Information

- zEnterprise BladeCenter Extension (zBX)
 - http://www.ibm.com/systems/z/hardware/zenterprise/zbx.html
- WebSphere DataPower SOA Appliances home page
 - http://www.ibm.com/software/integration/datapower/
- WebSphere DataPower Information Center (online help):
 - http://publib.boulder.ibm.com/infocenter/wsdatap/v3r8m1/index
- developerWorks
 - http://www.ibm.com/developerworks/websphere/zones/busine:
- Redbooks
 - http://www.redbooks.ibm.com/cgi-bin/searchsite.cgi?query=datapower
- zJournal
 - http://www.mainframezone.com/z-journal
- IBM Software Services for WebSphere
 - http://www.ibm.com/developerworks/websphere/services/
- IBM WebSphere DataPower SOA Appliance Handbook
 - http://www.ibmpressbooks.com/bookstore/product.asp?isbn=9780137
- DataPower SOA Appliance Customer Forum
 - http://www.ibm.com/developerworks/forums/forum.jspa?forumID=1198
- Global WebSphere Community
 - http://www.websphereusergroup.org/datapower
- Technotes
 - http://www.ibm.com/search/csass/search?q=&sn=spe&lang=en&filter=collection:stgsysx,db lue,ic,pubs,devrel1&prod=U692969C8281/9@68n

