

Connectivity & Integration update

2013 Business Partner Enablement

22. 1. 2013

Peter Brabec zWebSphere Brand Leader DataPower Ambassador



Understand vision for ESB capabilities

2 Understand DataPower Basics

3 DataPower and ESB positioning



Summary & OI

### **Connectivity from IBM Delivers Unrivalled Customer Value**





Over 10,000 customers worldwide and growing!

Report: IBM Named Marketshare Leader in Middleware Software

Announcement Marks Beginning of Second Decade of Software Leadership

"Gartner reported that IBM continues to be number one in other growing and key areas including the **Enterprise Service Bus** Suites, **Message Oriented Middleware** Market, ... and **Integration Appliances**."

April, 2012



<sup>\*</sup> Source: "IBM Named Marketshare Leader in Middleware Software"

# Shifts in Enterprise Service Bus requirements

1

### **Changing role of Developers**

- Can't deliver full value of apps in isolation
- More responsible for connect apps they create
- •Want simple way to compose apps that is consistent with their Enterprise Service Bus



2

## **Expanding scope of ESB projects**

- •Need broad, universal Enterprise Service Bus to
  - Bridging across enterprise silos departments, locations
  - Connecting explosion of endpoints mobile, cloud, sensors
  - Integrating across more diverse IT environments

3

### Innovation enables more flexibility

- •Advancements in creating embeddable technology
- •Enabling development of modular ESB capabilities
- •Can make ESB flex to address multiple use cases







## **Security & Integration Use Cases**

#### **Enterprise Integration**

- Clients seeking core foundation platform for universal integration may call it an "ESB"
- Be able to integrate <u>any</u> endpoints don't know what you're going to integrate in future
- Focus on timeliness of information circulating - being able to notify variety of end-points

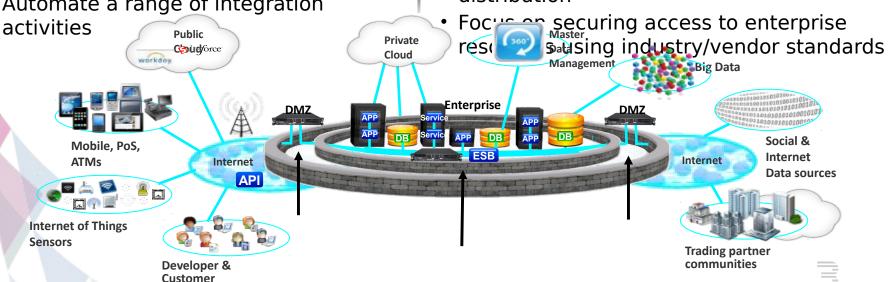
Automate a range of integration

communities

5

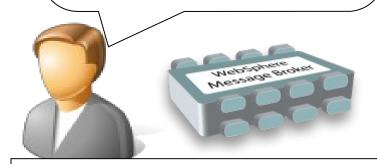
#### **Security & Integration Gateway**

- Clients seeking to secure and optimize the delivery of apps and services - may call this "SOA Gateway" or "Web Services/XML/API gateway" or "Mobile" Gateway" or "B2B Gateway"
- Be able to provide lightweight integration including XML offload, message validation/filtering/transformation, dynamic routing & intelligent load distribution



### **Security & Integration Customer Needs**

I need a flexible way to connect my applications together so I'm not building point to point connections. I have to deal with multiple connections and message formats, and flexibility and reliability are critical.



#### Why Start Here?

- Flexible reuse-oriented foundation for building any-to-any connections
- Ideal for brokering message formats among systems
- Very high level of flexibility & reliability

I want to securely expose my enterprise data to external consumers/partners and also securely connect apps/services within the enterprise, while optimizing delivery of the workload.



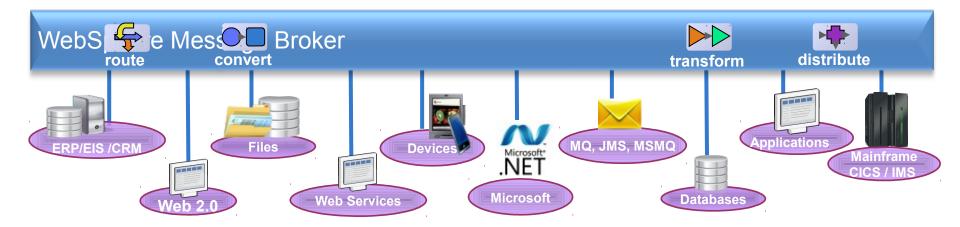


DataPower

#### Why Start Here?

- Purpose-built, hardened, DMZ-ready gateway appliances
- Ideal for securing and optimizing app/services delivery, while providing lightweight integration
- Hardware-based acceleration option

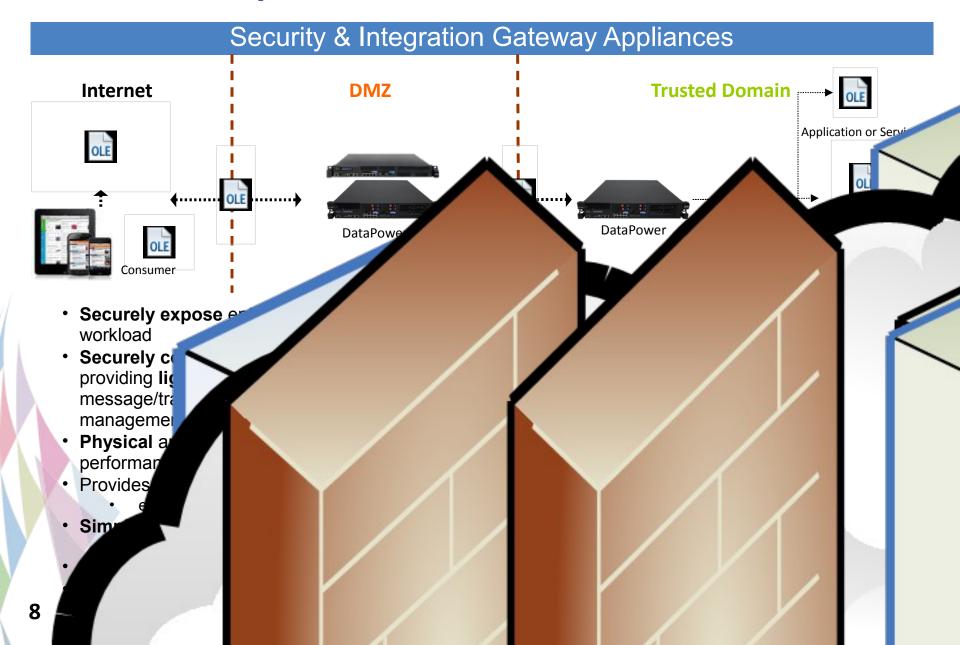
### What is WebSphere Message Broker?



- Powerful integration Enterprise Service Bus for universal connectivity
  - Transforming and enriching any type of data
  - Complex routing capabilities with visual design tools
  - Enterprise-wide transactionality, scaling, performance, high availability
  - Range of transport protocols e.g. MQ, JMS, HTTP, FTP
  - Built-in integration to enterprise environments and applications e.g. CICS, IMS, DB2, SAP
  - Range of Editions (Express, Standard, Advanced) easy upgraded to full capabilities for industry-leading scalability (no new installation required)



## What is WebSphere DataPower?



# Enhancing our ESB capabilities

1

### Making it easier for Developers

- Quickly and easily connect their apps together
- Configure common tasks without deep integration skills



Seamlessly deploy into Enterprise Service Bus



# **Enabling universal ESB projects**

- Deliver universal ESB that clients are asking for
- •As natural extension of App Infrastructure Foundation
- •Truly heterogeneous connectivity throughout enterprise
- •Bridge existing assets with the new environments



### Deliver more flexible ESB capabilities

- Address range of use cases with one unified offering
- Modular capabilities that scale to fit any size project







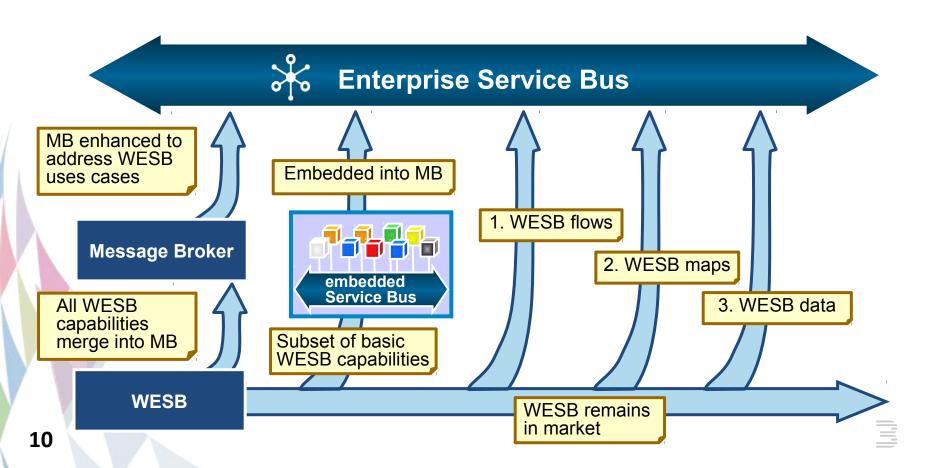
### **Evolving portfolio**

Customers get all the capabilities of WESB within Message Broker

• All WESB's capabilities are merging into Broker - only some basic WESB capabilities go into WAS

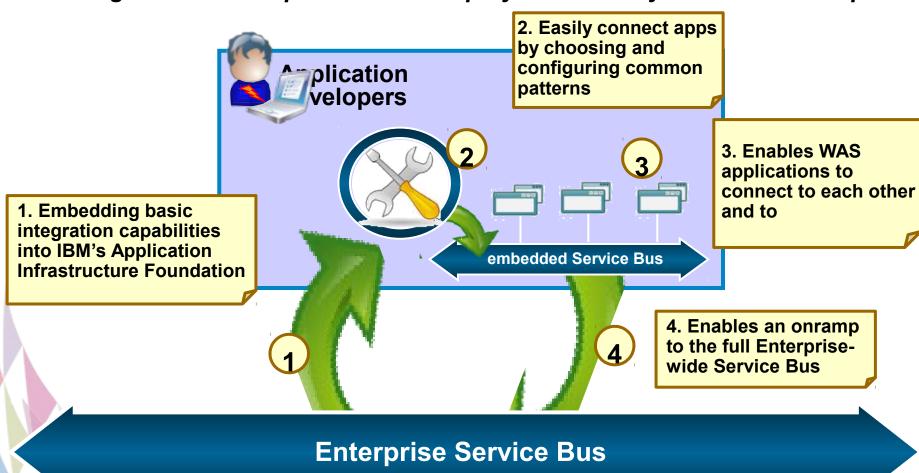
Significant innovation to Broker to add all the things WESB can do today

Customers will have a smooth upgrade path for WESB



### **Making it Easier for Developers**

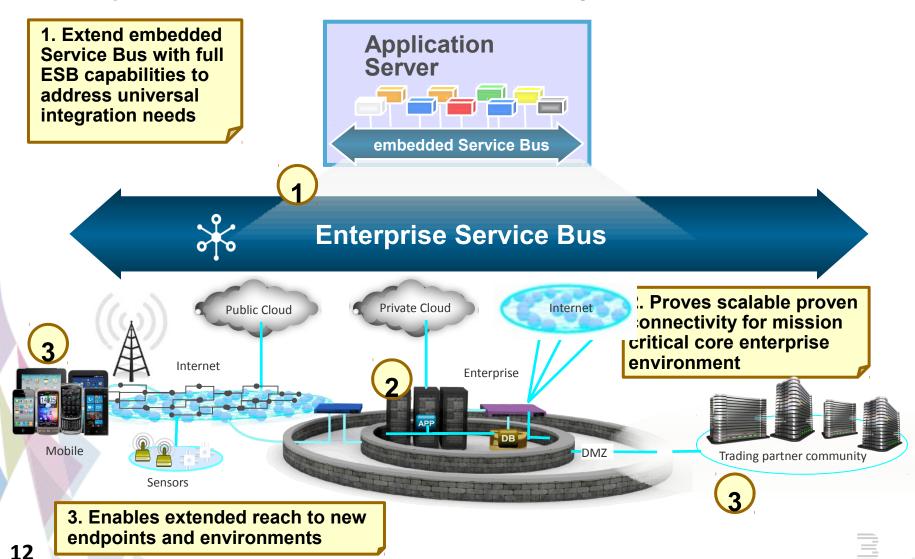
Providing embedded capabilities to simplify connectivity tasks for developers





### **Enabling universal Enterprise Service Bus projects**

#### Extending embedded Service Bus with full ESB capabilities



#### **Intended Client Benefits**

# **Business Process Manager**



#### **Business Process Authors**

- ☑ Built-in connectivity to underpin processes
- ☑ Don't need to care about how it works



- ☑ Simplifies common App connectivity tasks
- ☑ Can use tools they're already familiar with
- ☐ Fits within admin model they already know





#### **Enterprise Service Bus**

#### **Integration Developers**

- ☑ Provides full capabilities to connect virtually anything
- ☑ Easy adoption path for Message Broker & WESB users
- ☑ Provides natural extension to built-in connectivity capabilities



### **Seamless Service Bus Capabilities**

#### embedded Service Bus

- Integral to Application Server Infrastructure
- Basic "one-to-one" connectivity for WAS apps
- Managed centrally via WAS
- Can mediate between applications that use WAS
- Enables developers to configure common tasks
- Supports standard interfaces & data formats
- Designed for rapid integration of WAS apps

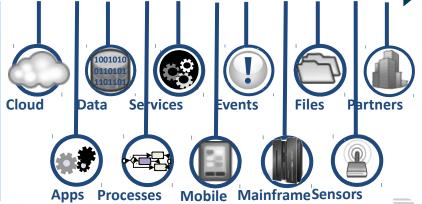


#### **Enterprise Service Bus**

- Full ESB for universal integration
- Superset adding following capabilities:
- + Standalone Bus that meditates across endpoints
- + Supports full range of connectivity tasks
- + Integration of all standard & non-standard data
- + Connectors for broad range of endpoints
- + Connectivity for heterogeneous environments
- + Integrates virtually any apps, services, data sources



#### **Enterprise Service Bus**



### Comparing embedded and full ESB capabilities

#### **Planned capabilities**

Connects across WAS hosted applications

Support JDBC, REST, Web services

Can configure patterns to connect applications

Full ESB capabilities

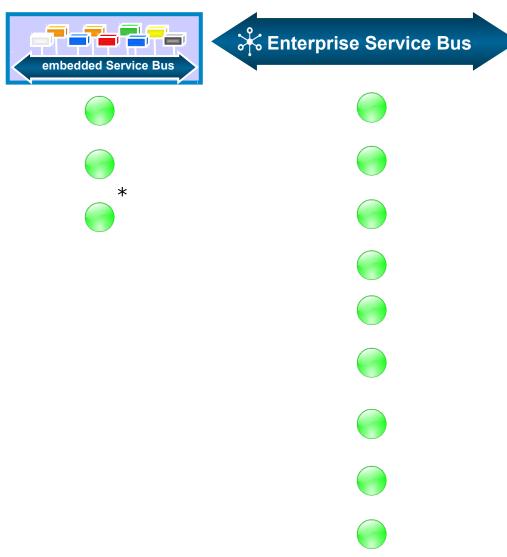
Can define custom mediation flows

Standalone ESB to connect applications and services anywhere

Integrates more than XML and JSON formatted data

Integrates across more than SOAP and JMS protocols

Integrates between apps when neither are WAS hosted



# Offering Vision

# Simplicity

Single software offering addressing all ESB connectivity use cases

**Lightweight** with high performance

# Integrated

WAS and BPM integration

**Standards** support including SOA

Runs anywhere including **Java and .NET** 



#### **Enterprise Service Bus**

# Universal

Integrates **virtually** anything, anywhere

Combines **any style** of connectivity

# Easy to Adopt

For new clients of all sizes

**For existing** WESB and Message Broker clients

Scales to any size of project

# Intelligent

Apply **intelligence** to real-time, in-flight data including predictive analytics, business rules

Built-in life-cycle management



### **Business Objectives**



**Deliver** most powerful Enterprise Service Bus offering in the market



**Protect and extend** all customer investments



**Easy** adoption path for Message Broker and WESB customers



**Differentiate** with unmatched ease and breadth



**Freedom** to choose any starting point and grow





**Enhance** IBM Application Infrastructure Foundation with embedded Service Bus capabilities



**Extend** embedded Service Bus seamlessly with full connectivity capabilities that enable an Enterprise Service Bus



**Deliver** combined capabilities of today's connectivity products in a unified Enterprise Service Bus offering



# Powerfully Simple Enterprise Service Bus IBM WebSphere Message Broker V8

- IBM's lightweight, comprehensive Enterprise Service Bus
- Delivers universal connectivity and integration for heterogeneous IT environments
- Focus on simplicity can run new integrations in as few as 4 clicks!
- Connect a wide range of applications, databases, files and messaging systems
- **Easy to install** in less than 20 minutes
- **Easy to deploy** with growing range of configurable integration patterns
- **Grows** from Express to Advanced ESB
- What's new and available in V8:
  - Comprehensive support for Microsoft .Net and integrated dev experience for MS Visual Studio
  - Record & Replay capability
  - High performance open standard parser (DFDL)
  - New Graphical Mapper for easy transformation
  - Built connectivity for IBM Sterling









Delivers universal connectivity & integration with full ESB capabilities



### **Updated!**

# Industry specific value designed for Healthcare IBM WebSphere Message Broker Connectivity Pack for Healthcare V7.0.0.2

- Industry pack tailored to healthcare IT professionals
- Easy and rapid patterns-based connectivity for new and existing HL7 based applications
- Operational monitoring for clinical apps
- Builds upon scalability and quality of WebSphere Message Broker v7 and v8
- What's new in V7.0.0.2:
  - Medical device nodes to provide direct connectivity to Bedside medical equipment - patient monitors, infusion pumps etc
  - New Medical device Patterns including Device to EMR
  - Operational monitoring for connected clinical devices
  - US FDA Registration as Class I Medical Device Data System









# Enables rapid integration of clinic applications and now medical devices

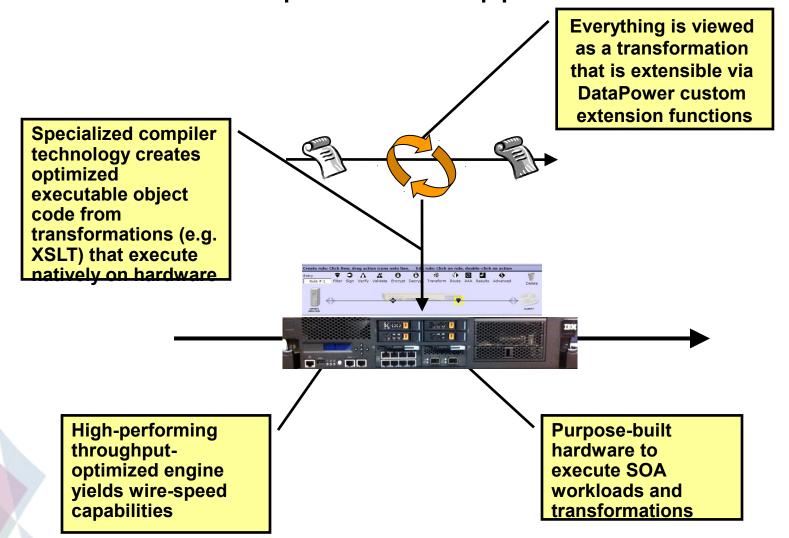
**Note:** Due to regulatory considerations the WebSphere Message Broker Connectivity Pack for Healthcare is subject to <u>usage restrictions</u> and restricted country availability.

- SECURE your SOA, Web 2.0, B2B, and Cloud environments
- SIMPLIFY your connectivity infrastructure
- ACCELERATE your time to value
  - **GOVERN** your evolving IT architecture

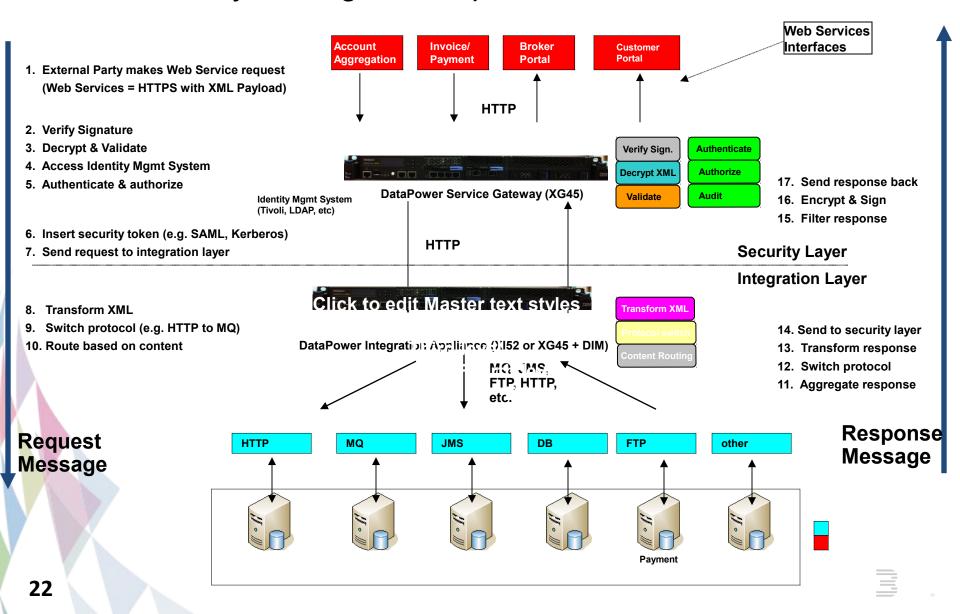


WebSphere DataPower Appliances provide a low startup cost, helping clients increase ROI and reduce TCO with specialized, consumable, dedicated appliances that combine superior performance and hardened security

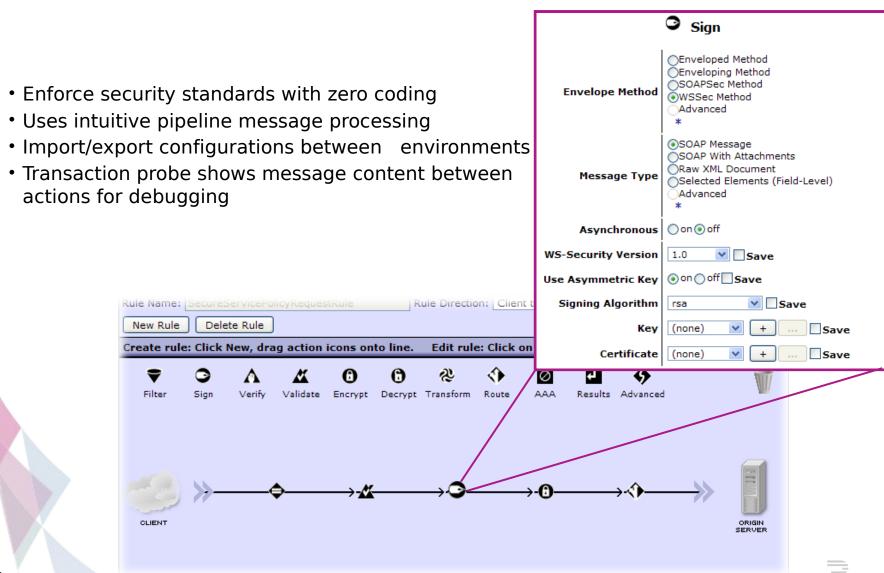
# DataPower – A Purpose Built Appliance



### SOA Security & Integration Operational Scenario



### Configuration-driven approach speeds time to market



# New streamlined WebSphere DataPower Appliance offering meets your Security and Connectivity needs

#### **Service Gateway XG45**

- Multiprotocol
- Enhanced Security Capabilities
- Routing and Service Level Management
- Fine-grained authorization
- Includes Tivoli Option (TAM / TFIM access)

- Centralized Policy Enforcement
- Rich authentication
- Application Optimization and Load Balancing
- Data Integration Module includes binary Data support and ODBC

#### **Integration Appliance XI52, XI50b and XI50z**

Additional Network Interfaces
More HDD for logging and Audit
Increased performance
SFTP

- IMS Connect
- TIBCO EMS
- ODBC
- Tivoli Option

#### **B2B** Appliance XB62

- Unparalleled B2B performance
- Secure B2B messaging (EDIINT AS1, AS2, AS3)
- Trading Partner Profile management

- Transaction viewing and resending
- EDI and ebXML Support
- Native MQ FTE Integration

# New Hardware Platform: 7199 (9005) – XI52, XB62

- Features
- Customer Replaceable Units (CRUs) and Field Replaceable Units (FRUs)
- Higher performance purpose-built hardware
- Hard drive standard but not required for proper operation
- 1 Gb and 10 Gb ports standard
- 2U in size

RAID mirroring and striping across four drives



8 1-Gigabit Ethernet NICs 2 10-Gigabit Ethernet NICs

# New Hardware Platform: 7198 (9005) – XG45

24 Gigabytes Memory E

RAID mirroring and striping across two 300GB drives

4 1-Gigabit Ethernet NICs

2 10-Gigabit Ethernet NICs

> Da an

### IBM WebSphere DataPower Virtual Edition

Deployment flexibility & reduced cost for development and test environments



#### What's New?

 WebSphere DataPower XG45 and XI52 physical appliance functionality in a "virtual appliance" form-factor running on VMware hypervisor

#### Features/Business Value

- Industry-leading workload security, optimization, and integration functionality similar to the corresponding physical DataPower appliance models
- Powered by a purpose-built platform including an embedded, optimized DataPower Operating System
- Ability to upgrade and downgrade firmware similar to physical appliances
- Seamless configuration migration between physical and virtual appliances

#### **Client Benefits**

- A flexible, cost effective choice for non-production environments
- A production solution for environments not suitable for physical appliance deployment
- Offers ability to use virtual appliances for development/test environments and physical appliances for staging, production and disaster recovery

Announce date Oct 23, 2012

**GA date Nov 30, 2012** 



Product Name	<ul> <li>✓ WebSphere DataPower Service Gateway XG45 Virtual Edition (PPA Product ID: 5725-J90)</li> <li>✓ WebSphere DataPower Integration Appliance XI52 Virtual Edition (PPA Product ID: 5725-J91)</li> </ul>				
Dates	✓ Announce: October 23, 2012, GA: November 30, 2012 (Pre-GA build for customer demo available Nov 7th)				
Functionality	<ul> <li>✓ Same workload security, optimization, &amp; integration functionality as the corresponding physical appliance model. Exceptions:         <ul> <li>No Hardware Security Module (HSM) support for FIPS compliance</li> <li>No cryptographic hardware acceleration support</li> <li>Not part of Common Criteria certification effort in progress for physical appliances</li> <li>✓ Each "virtual appliance" is powered by the same purpose-built platform as the physical appliance model, and includes an embedded, optimized DataPower Operating System</li> <li>✓ Uses signed/encrypted firmware images like physical appliances, doesn't allow install of other software</li> <li>✓ Uses "scrypt4" format firmware image (scrypt2/3 are used by physical appliances), does not run or support firmware prior to v5.0.0</li> </ul> </li> </ul>				
Versions	<ul> <li>✓ Two versions for each product, Production &amp; Non-Production, each priced separately:         <ul> <li>➤ XG45 Virtual Edition for Non-Production Environments: For non-production use. Includes following optional features at no additional cost: Application Optimization, Data Integration Module</li> <li>➤ XG45 Virtual Edition: For production use. Optional features must be ordered separately.</li></ul></li></ul>				
Primary Use	<ul> <li>✓ Flexible deployment option, cost effective choice for development &amp; test environments</li> <li>✓ Solution for environment not suitable for physical appliance deployments</li> </ul>				
Pricing	✓ Available through Passport Advantage. Priced based on Processor Value Unit (PVU)				
Hypervisor	✓ <b>VMware</b> ESX v4.0, v4.1 OR ESXi v4.0, v4.1, v5.0, v5.1 (aka vSphere, current version is v5.1)				
Requirements	✓ Minimum virtual resources for each virtual edition appliance				

> 4 vCPU (i.e. virtual core) and 4GB RAM

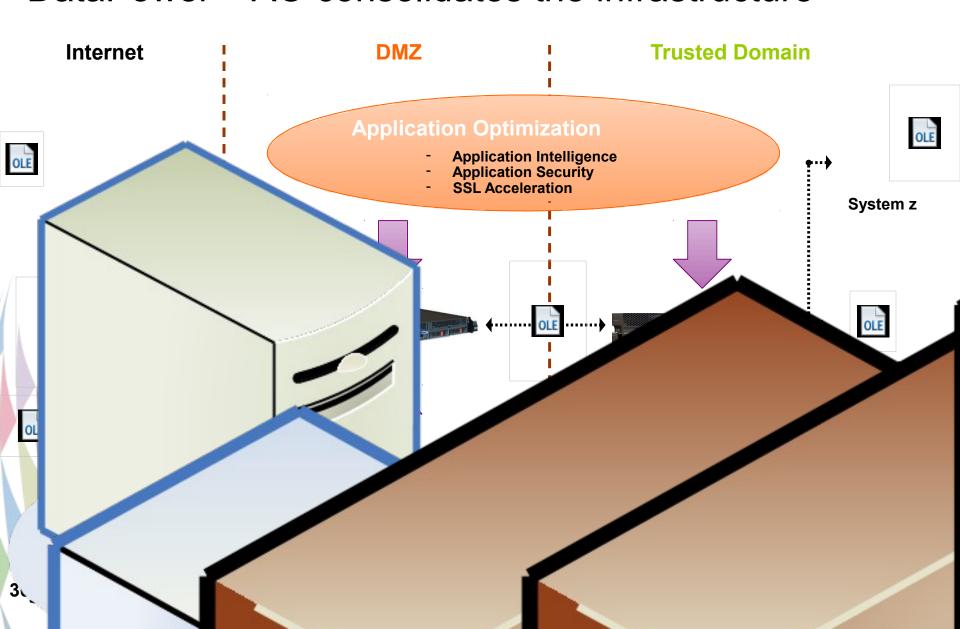
### **DataPower Virtual Appliance Positioning**

- Physical appliances for all environments
  - Hardened physical security (FIPS 140-2 compliance, and Common Criteria EAL4)
  - Simplified deployment
  - Hardware acceleration for fast performance
  - Lower TCO
- Virtual for Test and Development and physical for Staging, Production and Disaster Recovery
  - Flexible and cost effective Test / Development environments

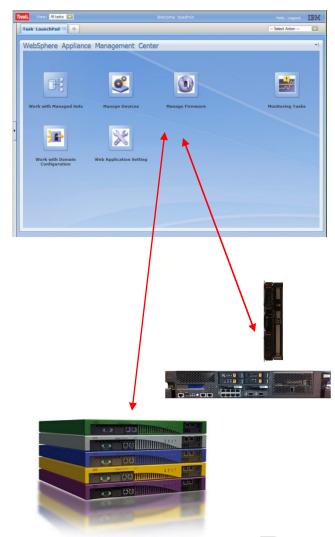
	Development	Test (Functional & System)	Test (Performance & Load)	Staging	Production	Disaster Recovery
Physical for all environments	Physical	Physical	Physical	Physical	Physical	Physical
Virtual for lower environments (Recommended)	Virtual	Virtual	Physical	Physical	Physical	Physical
Virtual for lower environments (Minimum)	Virtual	Virtual	Virtual	Physical	Physical	Physical



## DataPower + AO consolidates the infrastructure



### **Simplified Operations Management reduces operations costs**





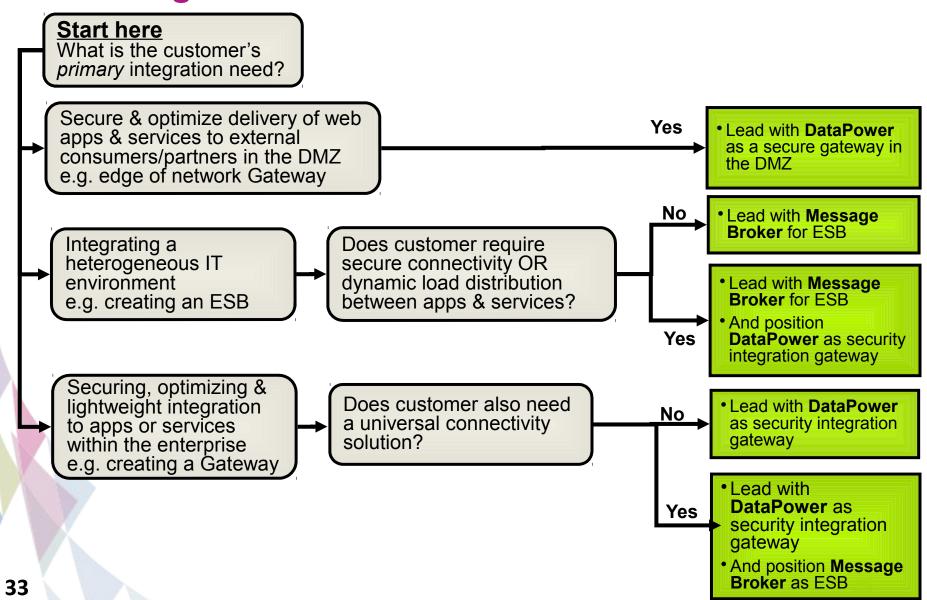


#### How to resell DataPower

- Route-to-Market
  - Sold as Tier 2 model
  - Channel Margin
    - 25% in case customer buys @List Price
    - 18% in case customer gets discounts
    - Sharing the Margin is your agreement with Distributor
  - Usual End User Discount is 30%
  - Send Discount Request with Business Justification to your local WebSphere Sales and cc: <u>brabec\_peter@at.ibm.com</u>
- Pricing
  - Prices for off-shore country in USD
  - Price calculation <u>sample</u>
  - Virtual Appliances (recommended for Dev/Test) are PA Products
- Certifications
  - 2 Technical people have to pass <u>Certified DataPower Solution</u> <u>Implementer</u>
  - 1 WebSphere Sales Mastery



### **Positioning Guide**



# How to talk about DataPower and Message Broker, ONLY when both products are needed

#### How to describe the products

- DataPower provides Gateway capabilities IBM's Security & Integration Gateway offering security, optimization and integration as a purpose-built appliance
- Message Broker provides enterprise integration capabilities IBM's ESB (Enterprise Service Bus) offering for universal connectivity
- DataPower and Message Broker are complementary offerings in IBM's integration portfolio

#### How **NOT** to describe the products

➤ DataPower is an ESB

- ✓ Message Broker is IBM's ESB offering
- ✓ DataPower does provide transport protocol and message transformation capabilities but it does not provide a basis for a full ESB for universal connectivity
- Message Broker provides security and optimization
- ✓ DataPower is IBM's Security Integration Gateway offering
- ✓ Message Broker does not provide full built-in capabilities for securing and optimizing delivery of web apps and services
- Mobile integration differentiates DataPower and Message Broker
- ✓ Both offerings provide mobile capabilities
   e.g. DataPower in the DMZ enables secure and optimized access and delivery of enterprise apps and services via

## **Product Value Propositions**

- DataPower's core value secure & optimize delivery of apps & services while providing lightweight integration through a purposebuilt gateway appliance
  - Provides security including threat protection, transport-layer & message-layer encryption, rich authentication, fine-grained authorization, auditing and token translation
  - Provides application optimization and lightweight integration including XML offload, message validation/filtering, message/transport protocol transformation, traffic control/quota enforcement, SOA governance & management, dynamic routing & intelligent load distribution
  - Focus is on acting as a security & integration gateway, not as an ESB foundation for universal connectivity
  - Affordable entry point with Service Gateway XG45 model that provides a secure gateway with application optimization capabilities
  - Offers deployment flexibility with physical and virtual appliances
- Message Broker's core value Advanced ESB that enables universal integration for a wide range of applications, services, styles
  - Provides ESB functionality that supports high transaction volumes and QoS
  - Particularly useful for integrating on-premise applications, legacy systems, and custom data formats
  - Affordable entry point with WMB Express that provides a foundation for new services as customer grows
  - Appeals to MQ customer base with an ESB built on top of reliable messaging



## Positioning DataPower and Message Broker

- Some confusion in field about how to position
- Now focusing:
  - DataPower on Security & Integration Gateway at the edge & within enterprise
  - Message Broker on ESB providing universal connectivity
- Each offering addresses unique, complementary use cases

Need to position <u>clearly</u> to be more competitive

Look for opportunities to sell together to maximize revenue





#### **IBM INTERNAL USE ONLY**

# **Summary**

#### Q. What is changing?

A. Positioning. DataPower Integration Appliance XI5\* product(s) have historically been marketed as a "hardware ESB", going forward, they'll instead be positioned as a "Security & Integration Gateway Appliance".

#### Q. Is DataPower's integration functionality/capability changing?

- B. No. There are no current or future plans to limit DataPower's integration functionality/capability. The change is only about slight positioning adjustment.
- S. What competitive threats should I be aware of?
- A. Several appliance competitors will offer an integrated security and integration solution. They are typically limited in integration capability, but may offer a significantly lower entry price and a less complex solution than a DataPower / Broker combined solution. In this situation, its best to position the product that meets the majority of the customer's requirements to keep the solution simple and keep the costs as low as possible.

