



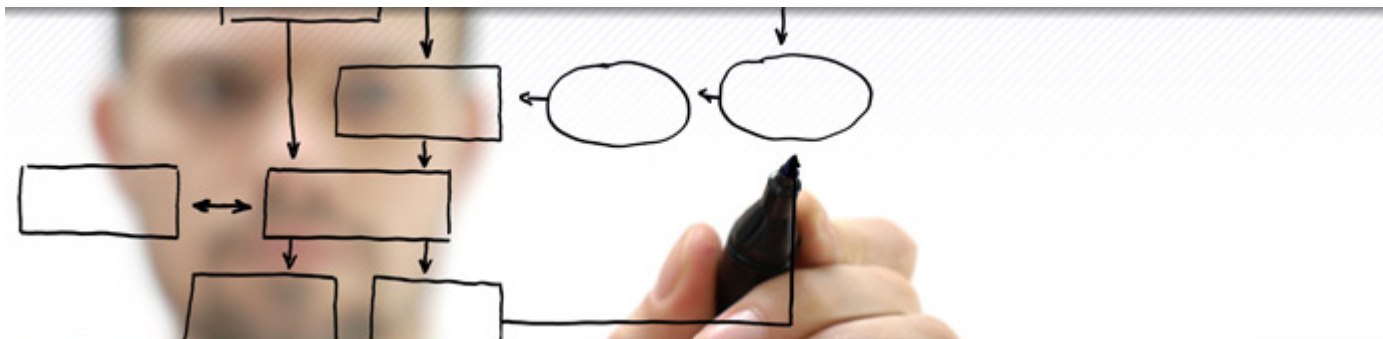
Alphacourt

The Integration Practice

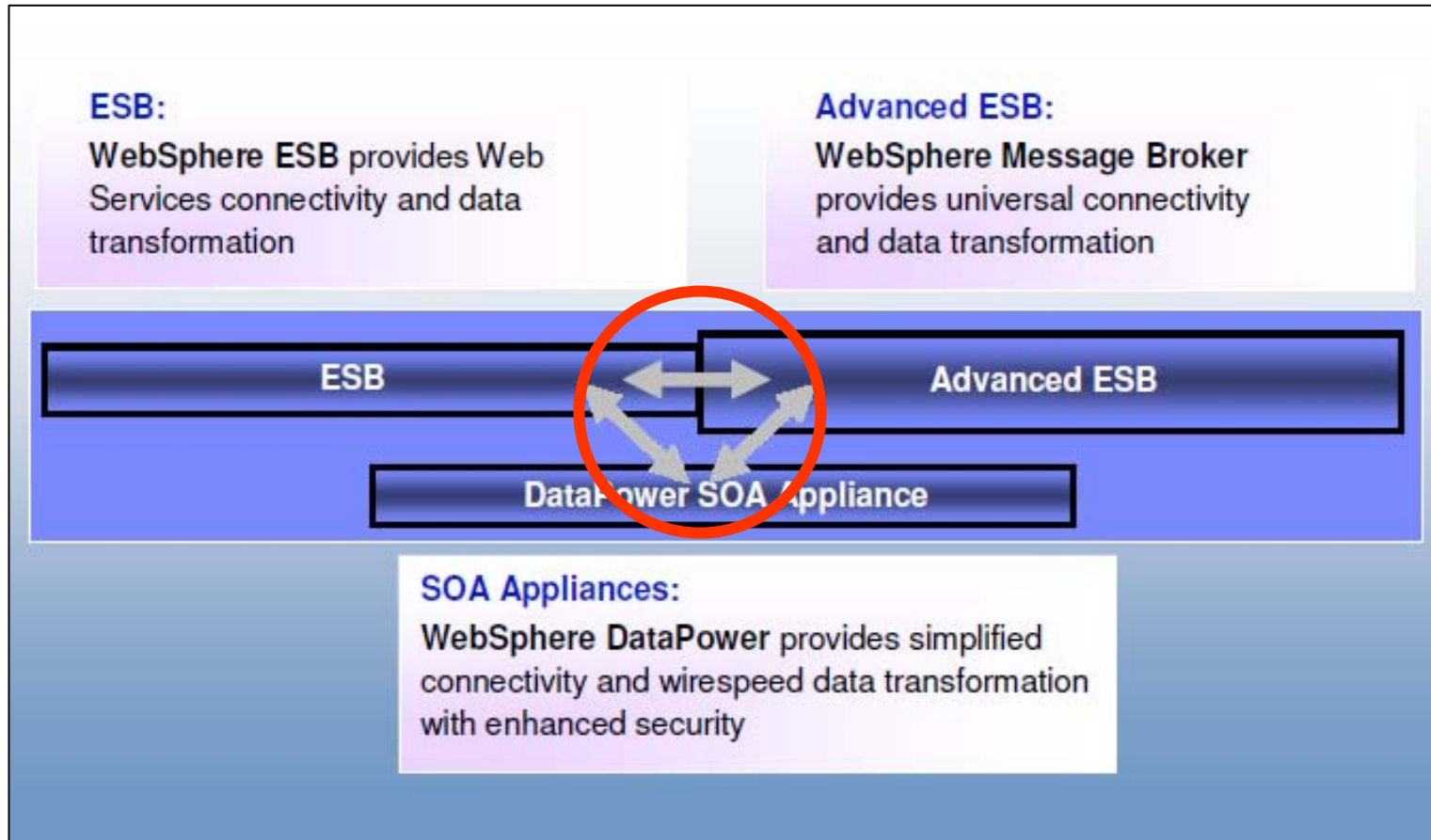
Enterprise Messaging Infrastructure and use with SIB, MQ, DataPower and WMB

WebSphere User Group
Bedfont Lakes, 3rd March 2009

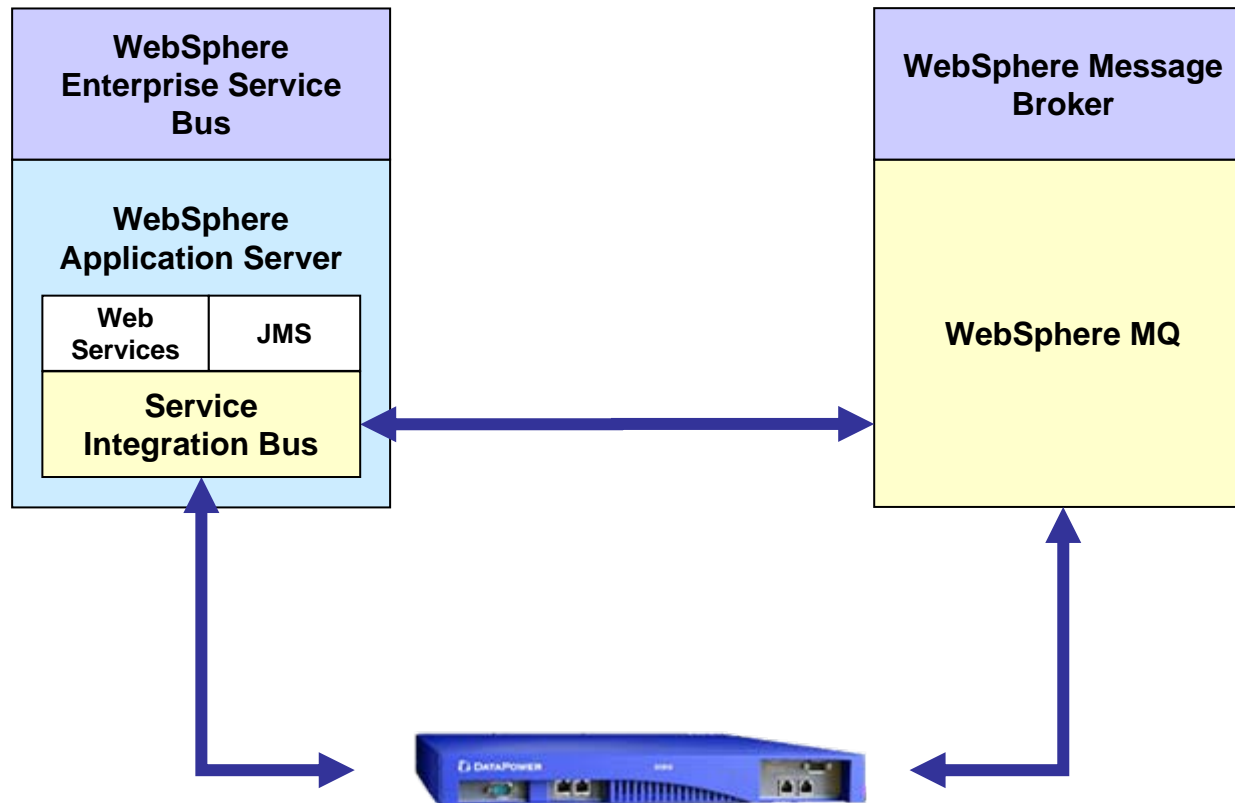
Nigel Roper



IBM's ESB Portfolio



Product Stacks



Agenda

Messaging Architectures

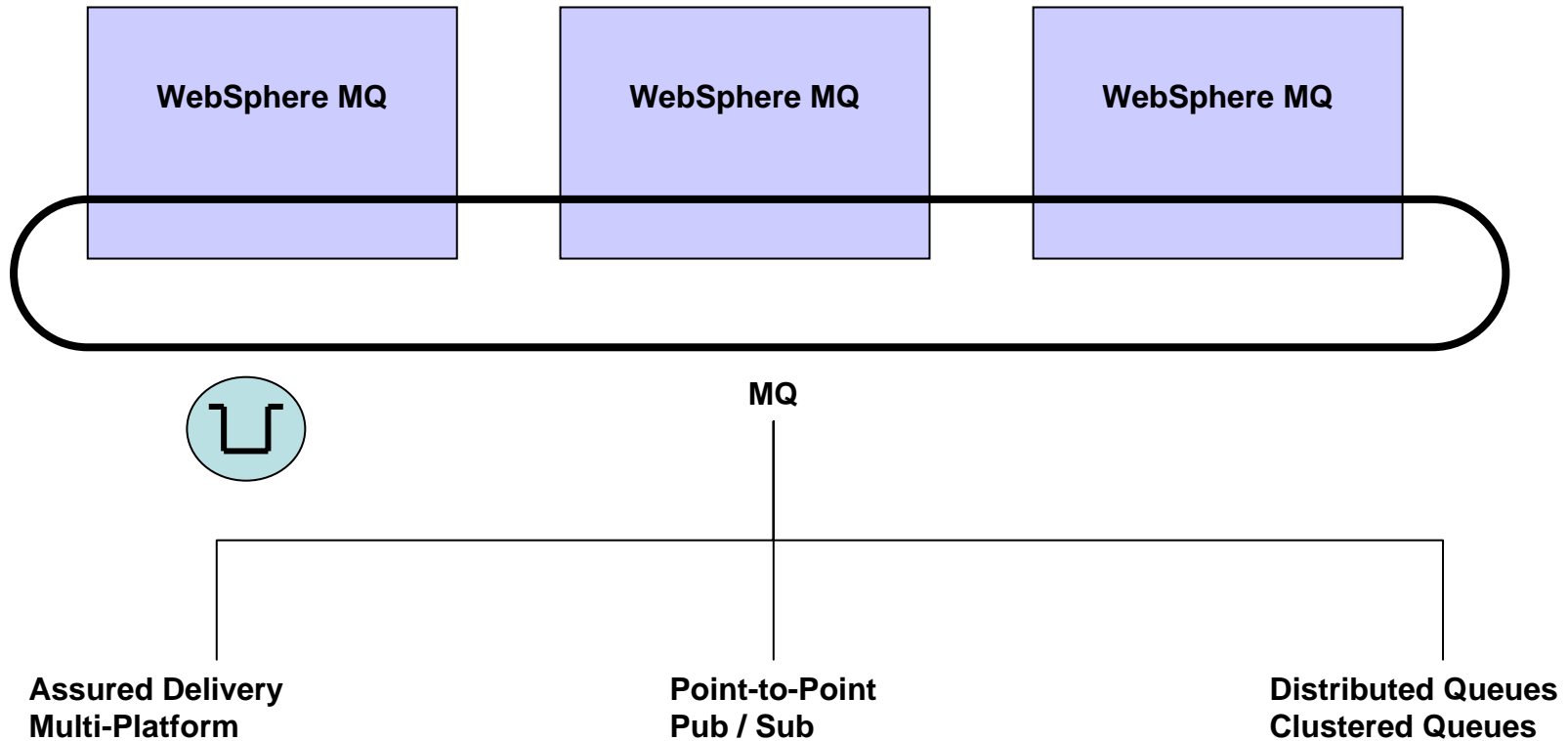
Message based Integration

- SIBus and WebSphere MQ
- WebSphere MQ and DataPower
- SIBus and DataPower

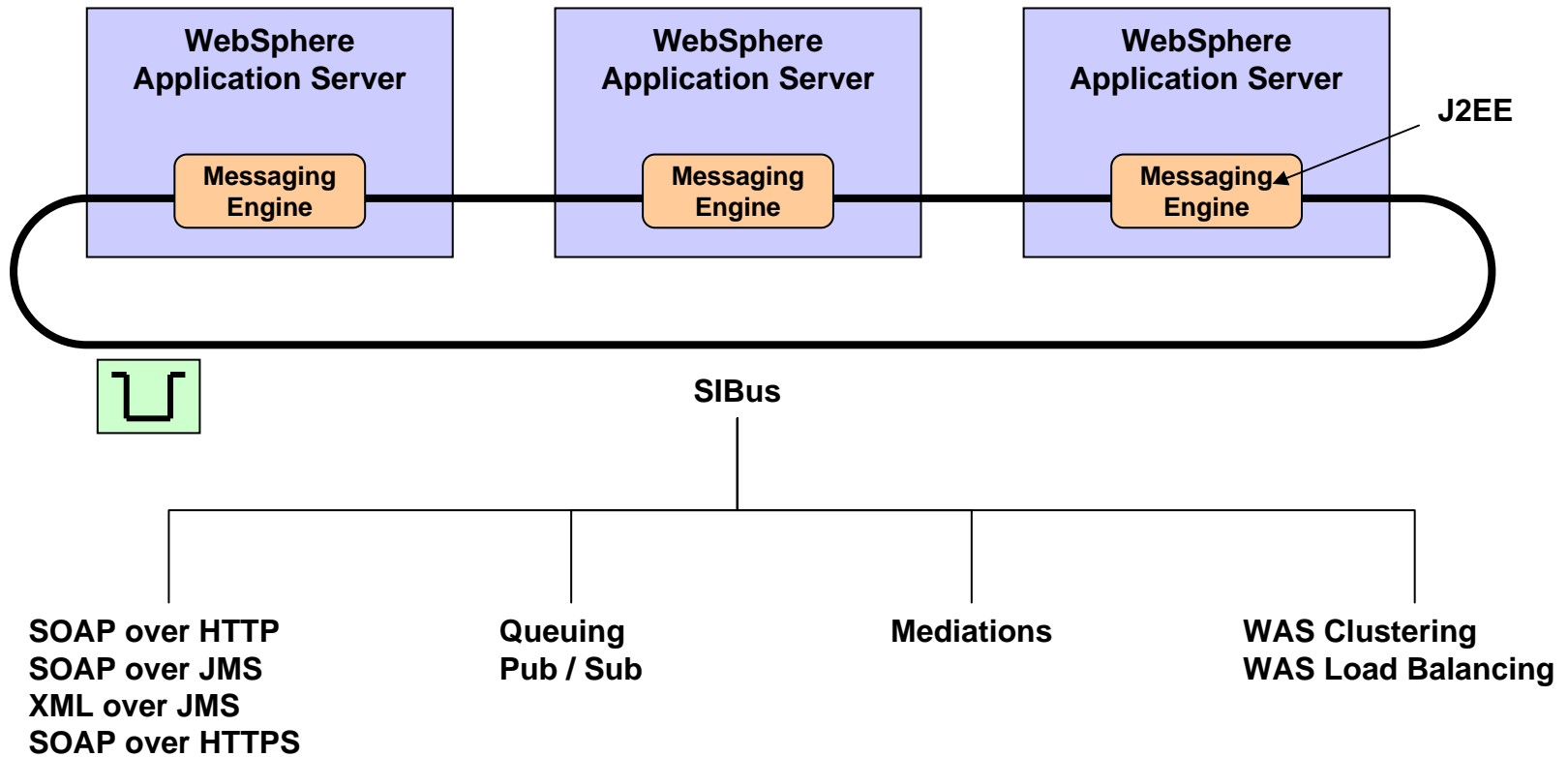
Synchronous based Integration

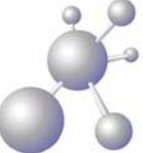
- SIBus and DataPower
- WebSphere Message Broker and DataPower

WebSphere MQ



SIBus






Integrating SIBus and WebSphere MQ



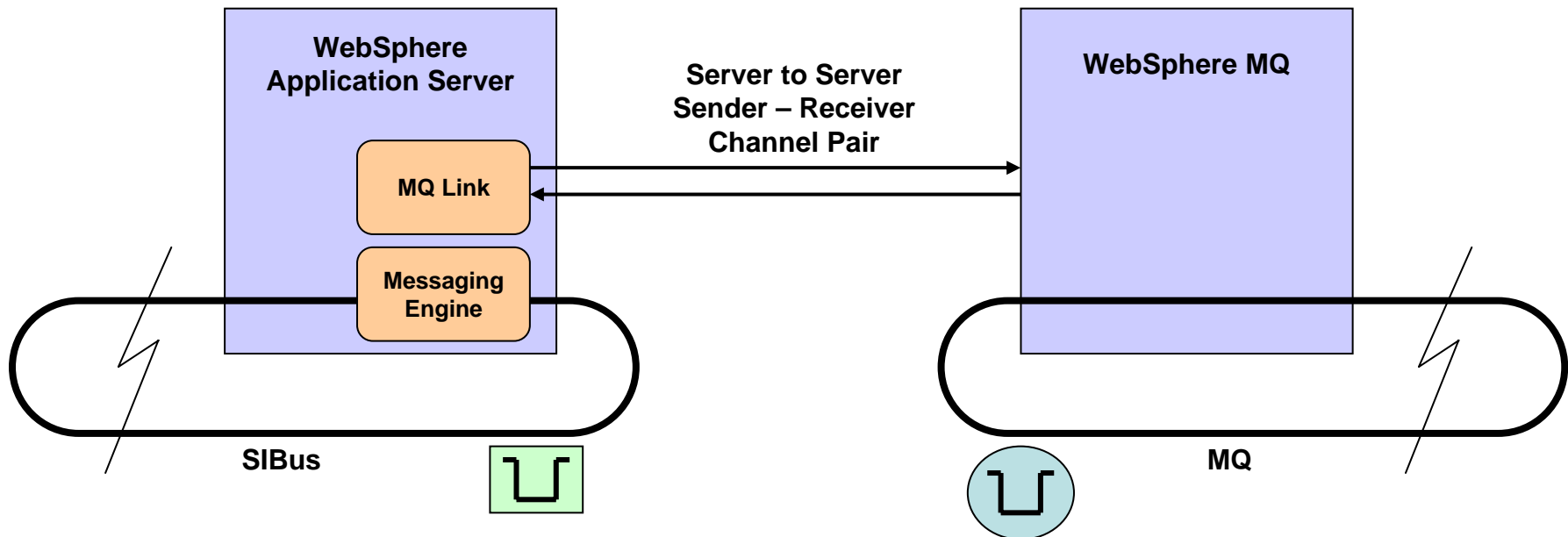
Integrating SIBus and WebSphere MQ

- ❁ Connect an SIBus and WMQ Network via MQ Link
 - (WAS 6 and WESB 6)
- ❁ Connect WAS to WMQ as a JMS Provider
 - (WAS 6 and WESB 6)
- ❁ Make a WMQ Queue Manager a member of an SIBus
 - (new in WAS 7 for distributed systems)



3 Options

Option 1: MQLink



1. Create Foreign Bus
2. Create an MQ Link
3. Create a MQ Link Receiver
4. Create a MQ Link Sender
5. Create SIBus Destination
6. Setup JMS Resource

1. Create Sender Channel
2. Create Receiver Channel
3. Create XMIT Queue


SIBus and MQ Terms


SIBus

MQ

Foreign Bus → MQ Queue Manger

SIBus ← Virtual Queue Mgr

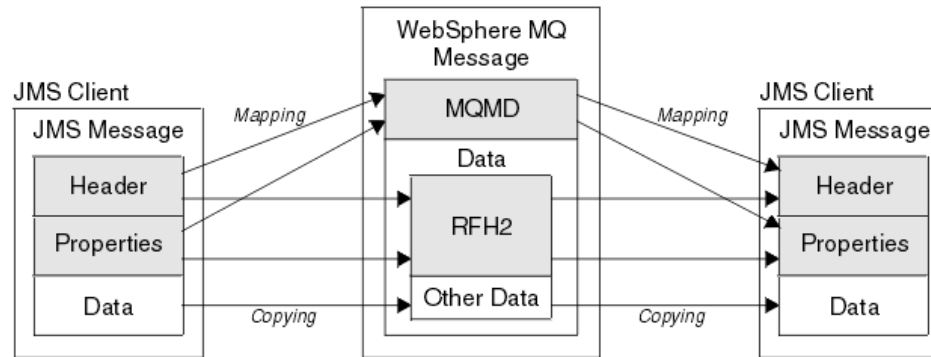
Destination → 

 ← Remote Queue

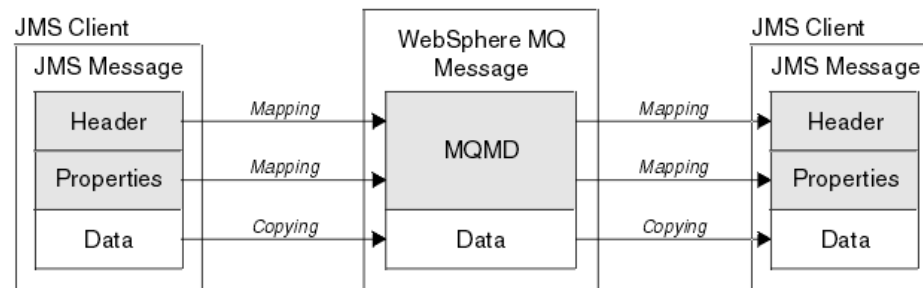
Subscribe ↔ Subscribe

JMS to MQ Message Mapping

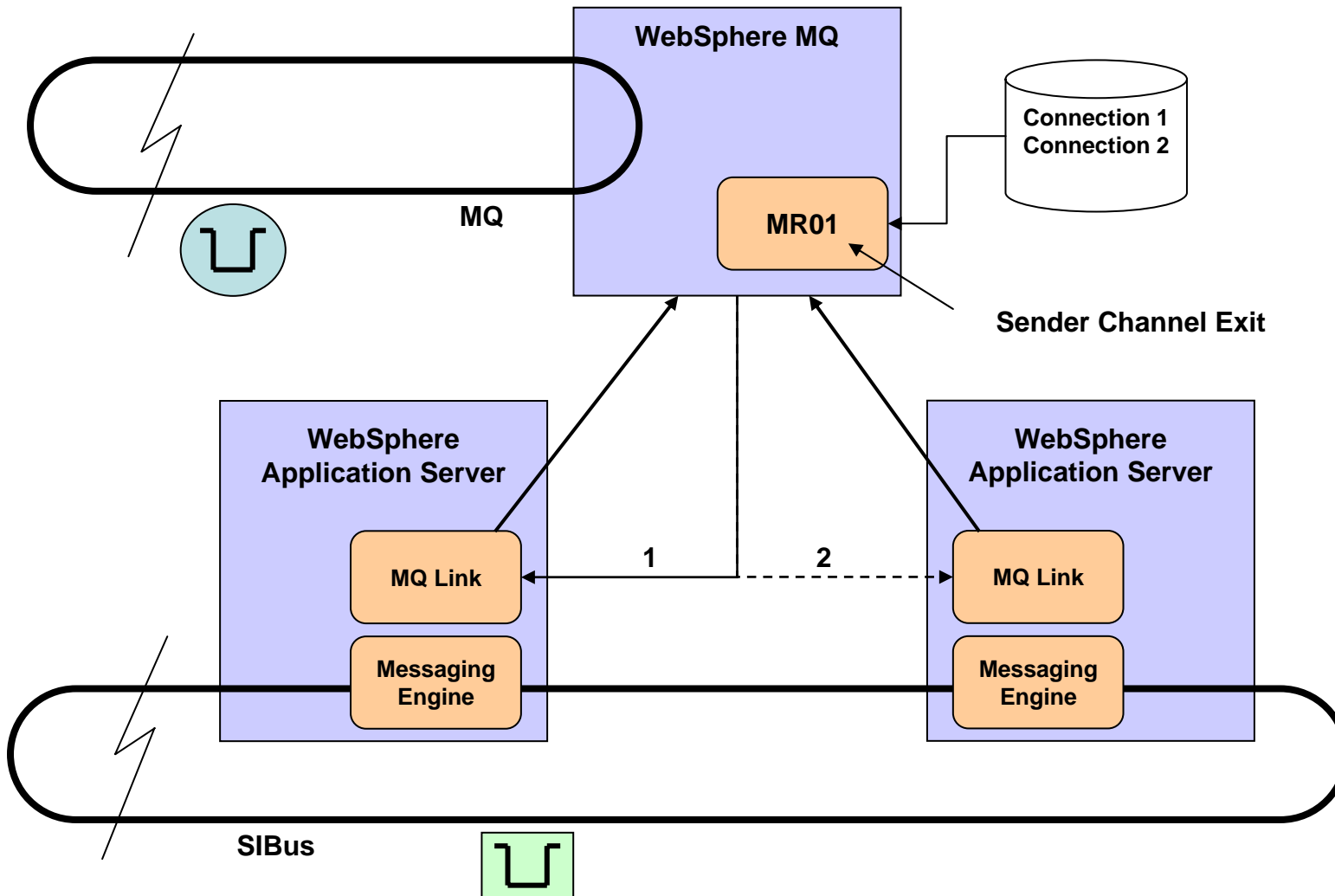
**JMS
to
MQ JMS Message**



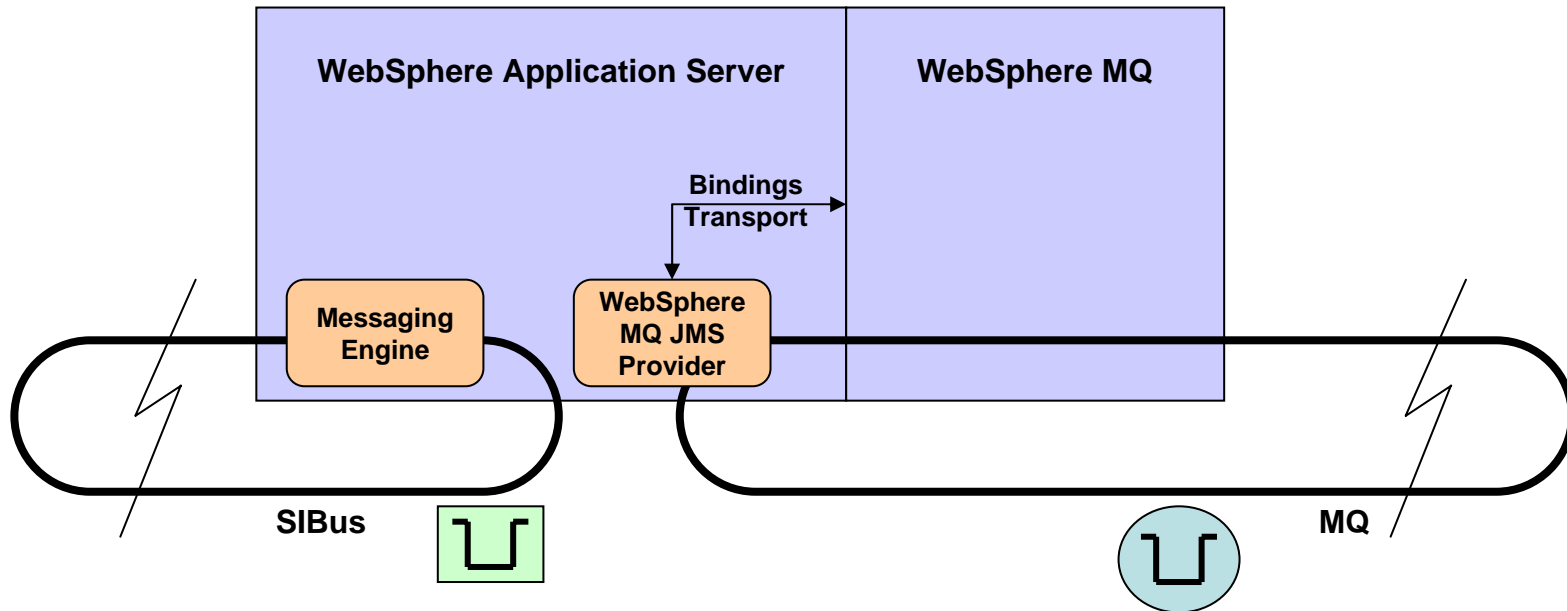
**JMS
to
Non-JMS MQ Message**



Improving Availability with Support Pac MR01



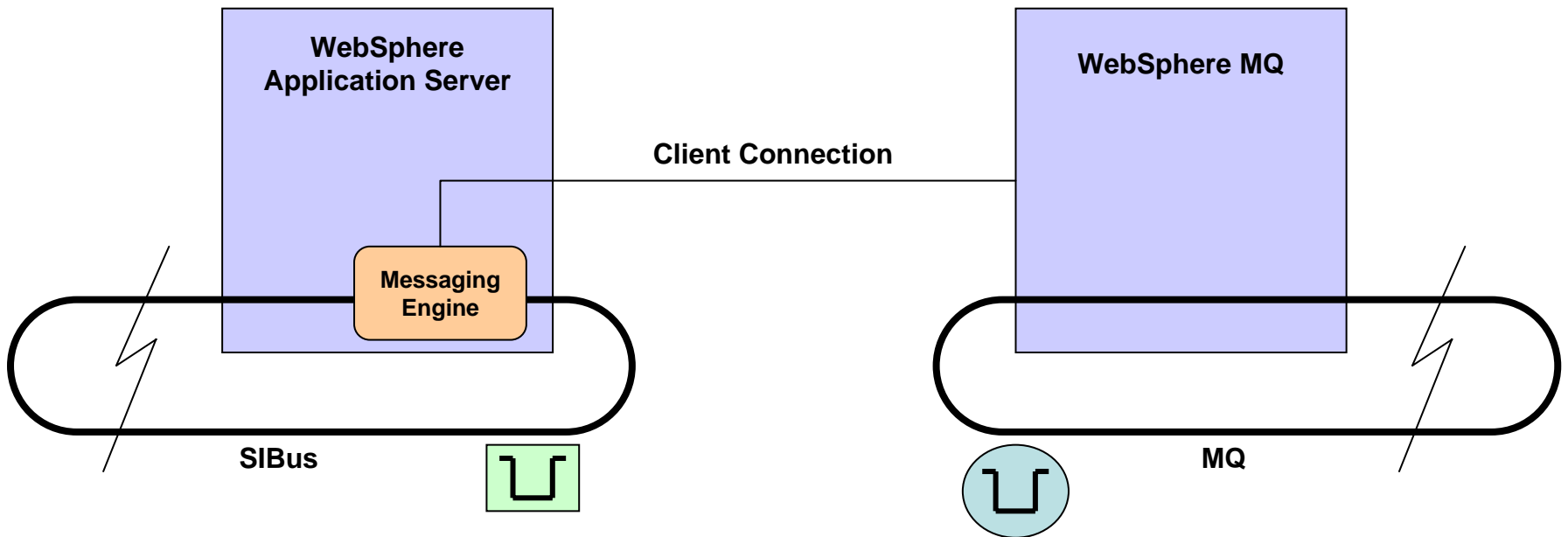
Option 2: WebSphere MQ as a JMS Provider



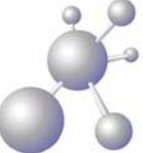
1. Define WebSphere MQ as a JMS Provider
2. Define JMS Connection Factory
3. Define JMS Queues
4. Define Lister Port

1. Install MQ on Application Server (recommended)
2. Create local Queues

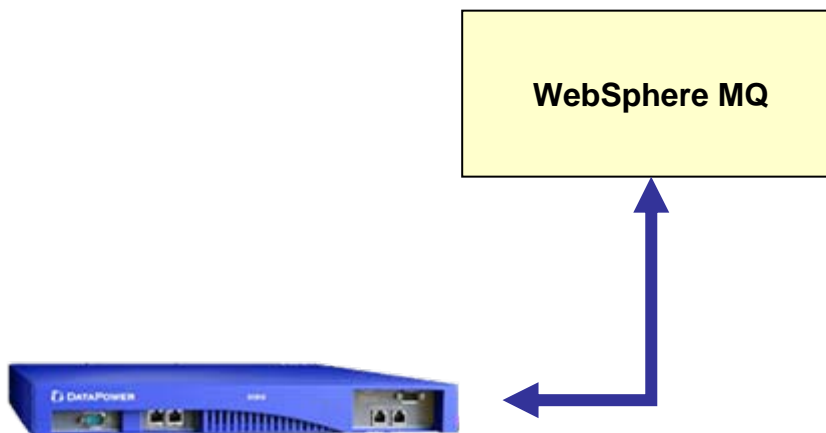
Option 3: WMQ Queue Manager as a member of an SIBus



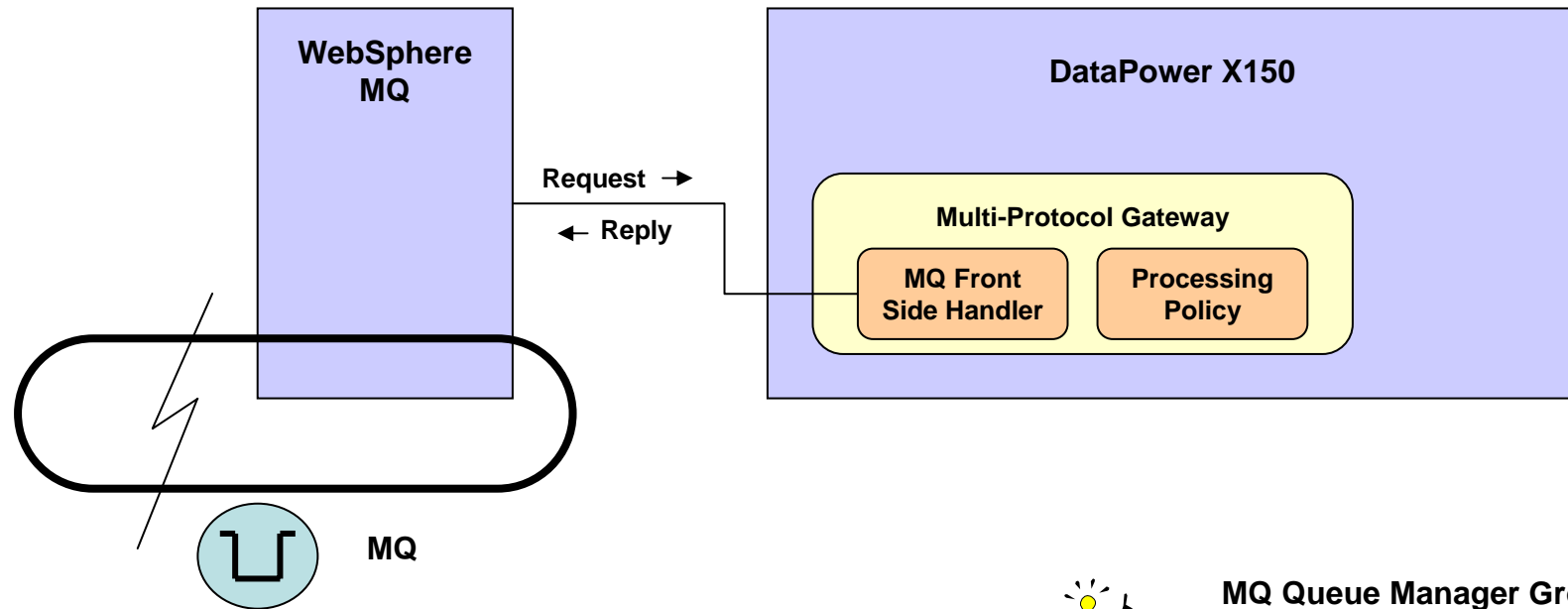
WMQ Topic not supported



Integrating WebSphere MQ and DataPower XI50

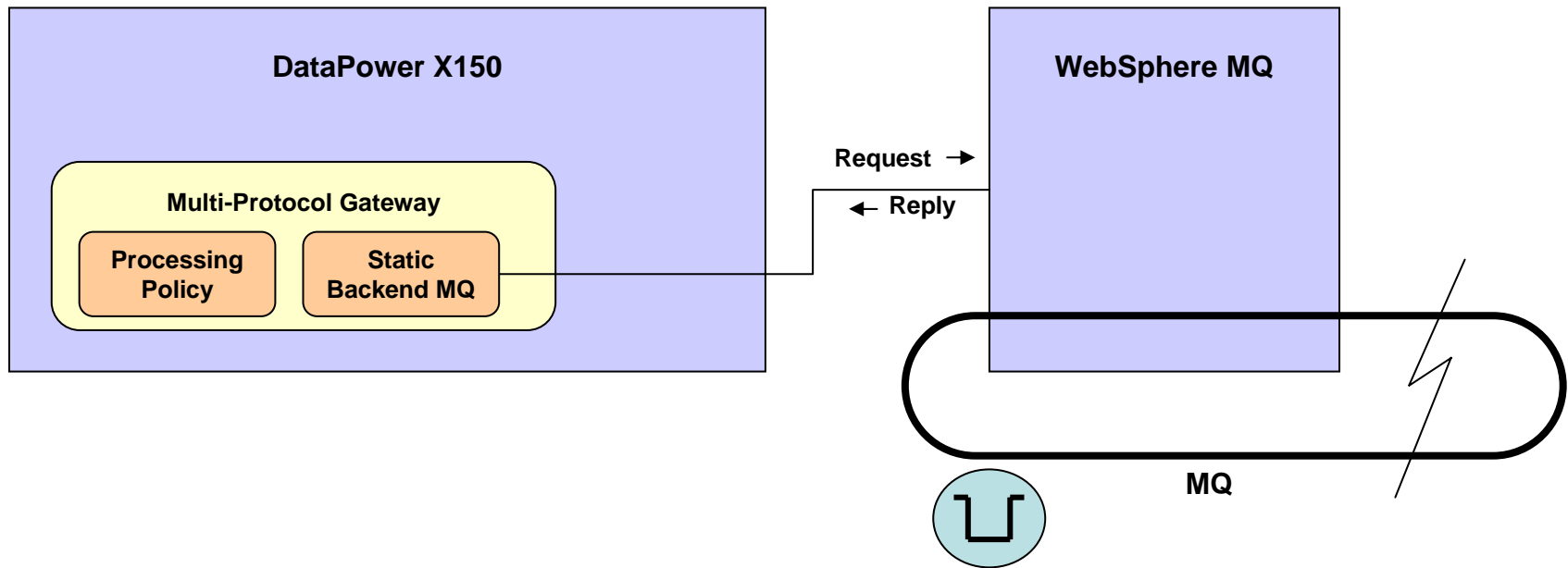


Integration: MQ to DataPower

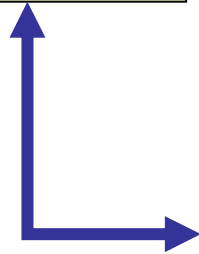
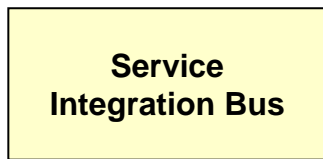


- MQ Queue Manager Group**
- Primary QM
 - Backup QM's

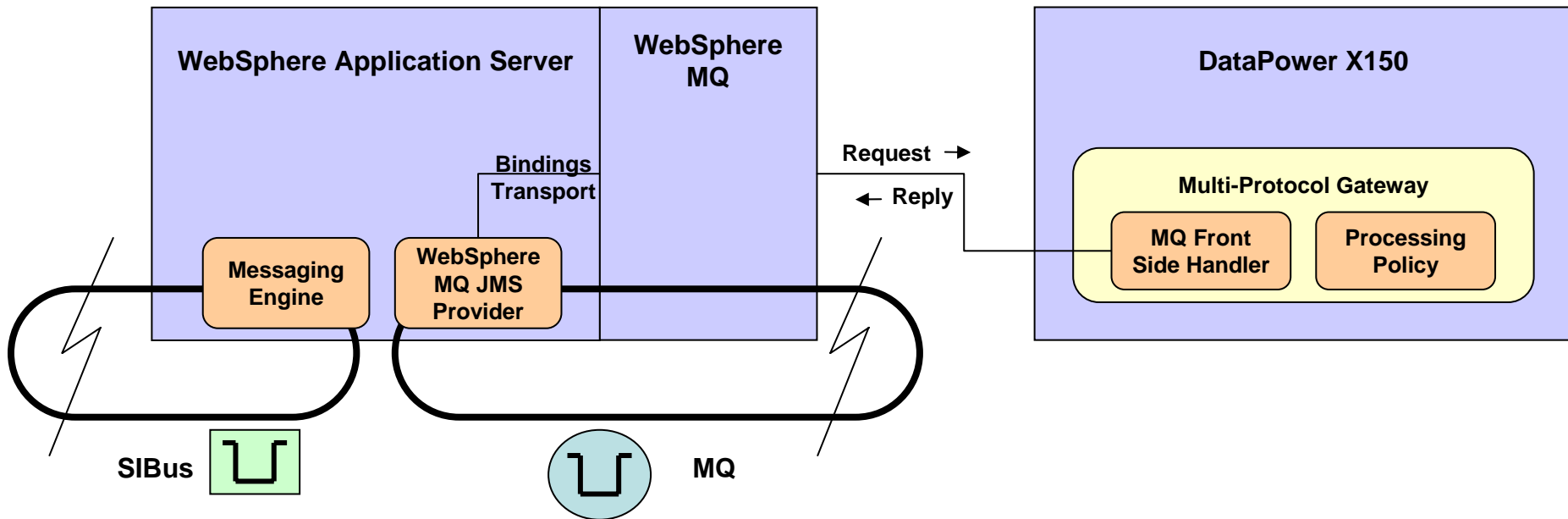
Integration: DataPower to MQ



Integrating SIBus and DataPower



Integration: SIBus to DataPower





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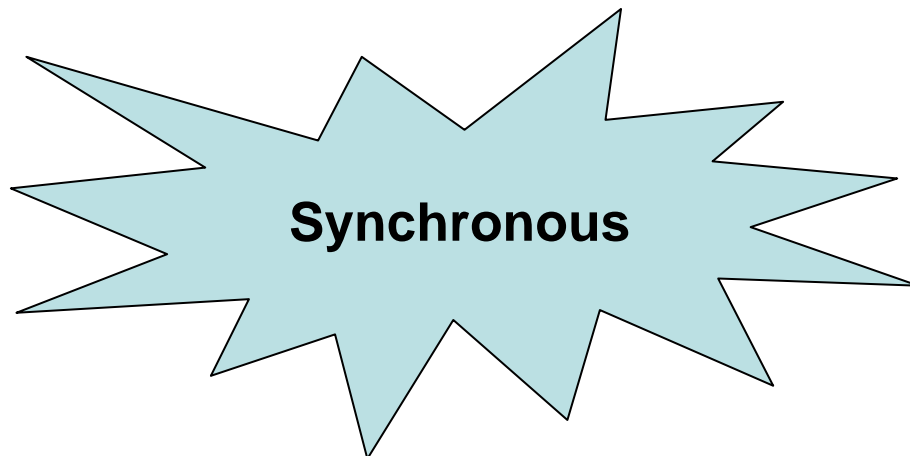
The Integration Practice

Synchronous Based Integration

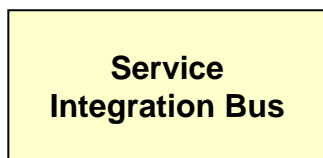


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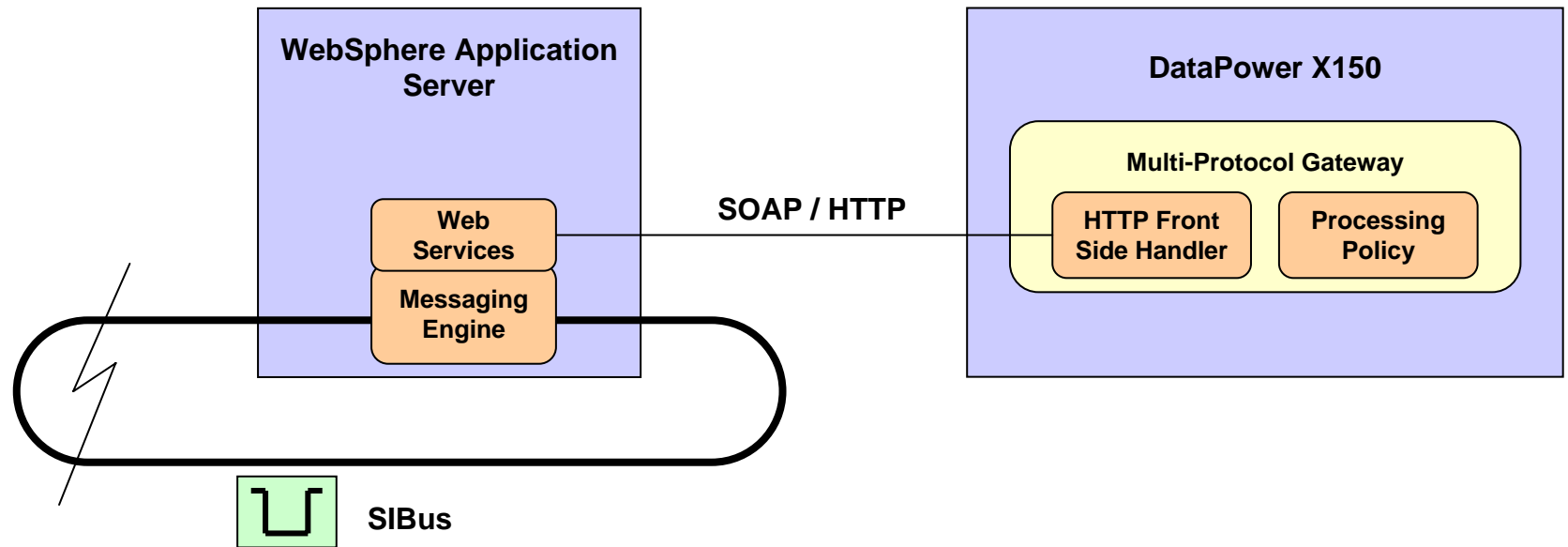
The Integration Practice

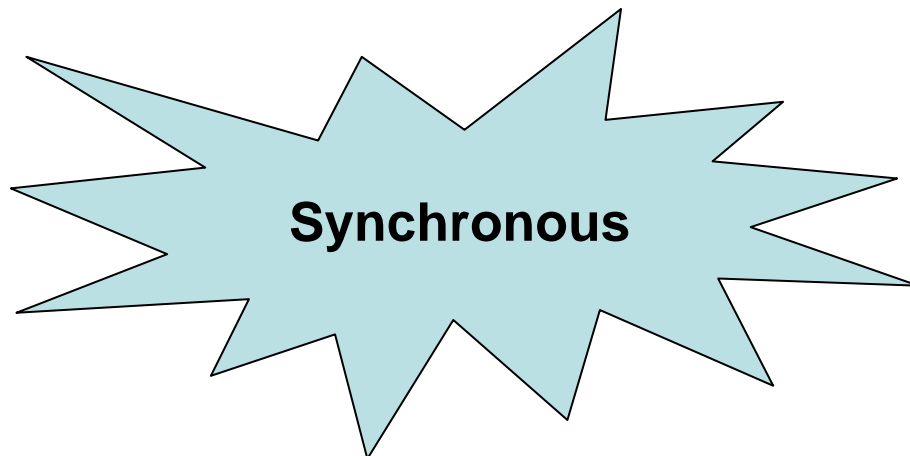
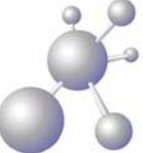


Integrating SIBus and DataPower

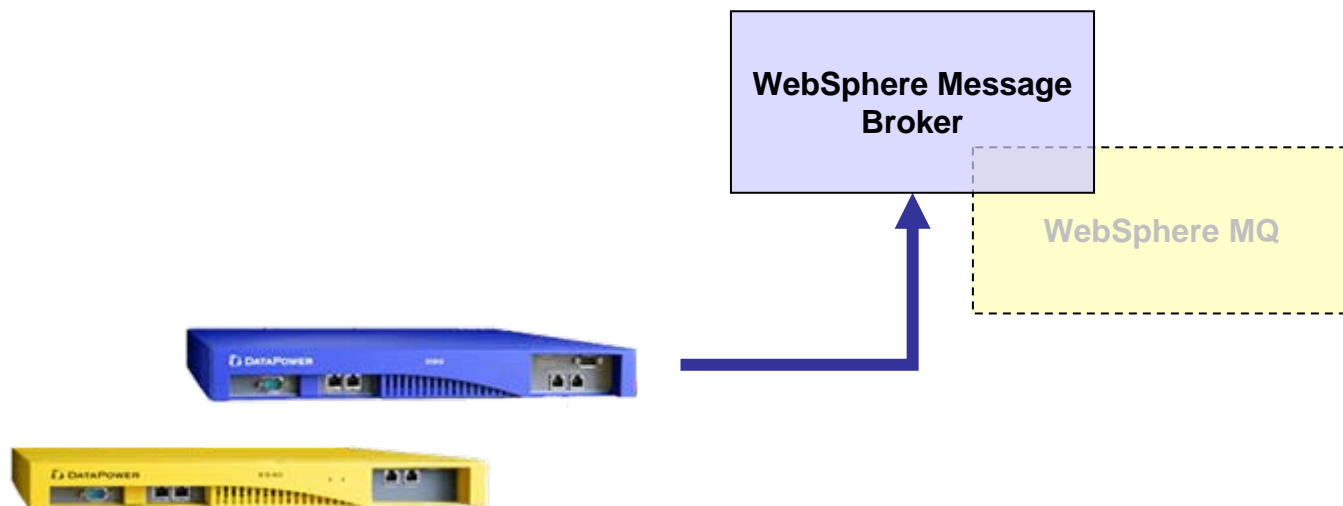


Integration: SIBus to DataPower

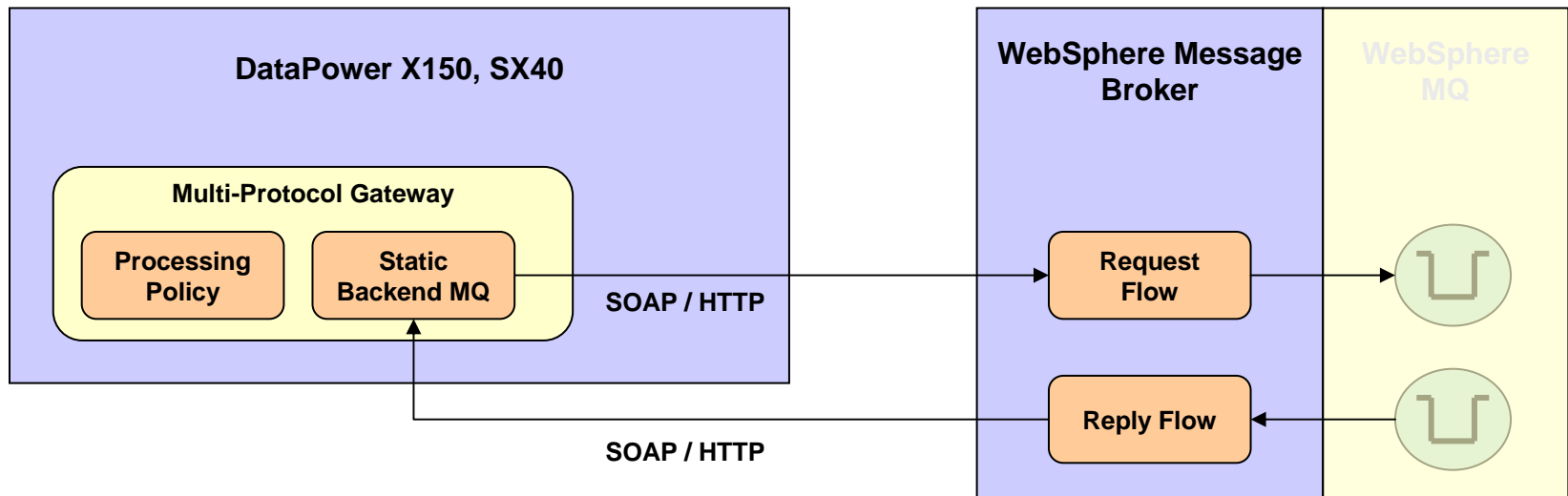




Integrating WebSphere Message Broker and DataPower XI50, XS40



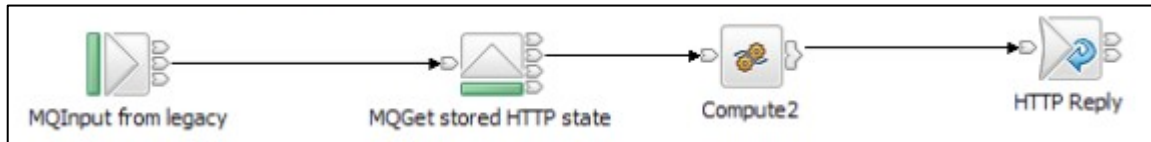
Integration: DataPower to WebSphere Message Broker



Request Flow



Reply Flow



Thank You