



WebSphere ESB to IBM Integration Bus

A leap forward to a
platform for the future

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Performance is based on measurements and projections using standard IBM benchmarks in a controlled environment. The actual throughput or performance that any user will experience will vary depending upon many factors, including considerations such as the amount of multiprogramming in the user's job stream, the I/O configuration, the storage configuration, and the workload processed. Therefore, no assurance can be given that an individual user will achieve results similar to those stated here.

Topics



Roadmap



Lower your costs



The Easy Move



Additional capability



IIB is lean and fast



Information & Education

Roadmap

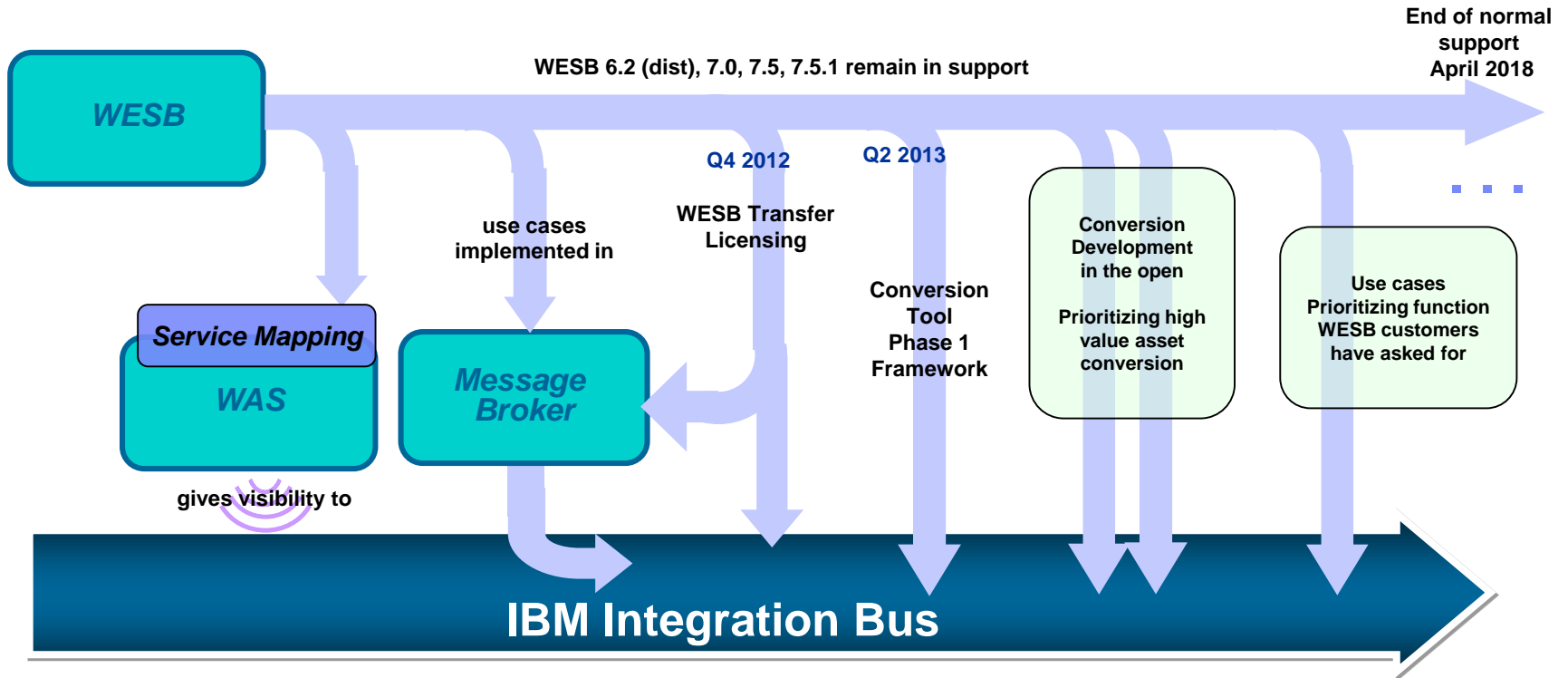


WebSphere Message Broker has been evolved to address WESB use cases

- WESB remains in support throughout transition
- IBM Integration Bus becomes IBM’s integration backbone

WebSphere ESB clients are provided with a smooth adoption path

- No cost WESB Transfer Licensing to IBM Integration Bus
- Conversion tool harvests WESB assets to accelerate conversion to Integration Bus
- IBM Software Services conversion offerings



Service Mapper: Allows for simple integration tasks without needing deep ESB skills. Narrowly scoped in capability for mapping between service interfaces to assist integrations

No cost WESB PVU transfer options to IIB

Option 1 (original)

1 PVU of WESB gives 1 PVU of IIB (scale mode)

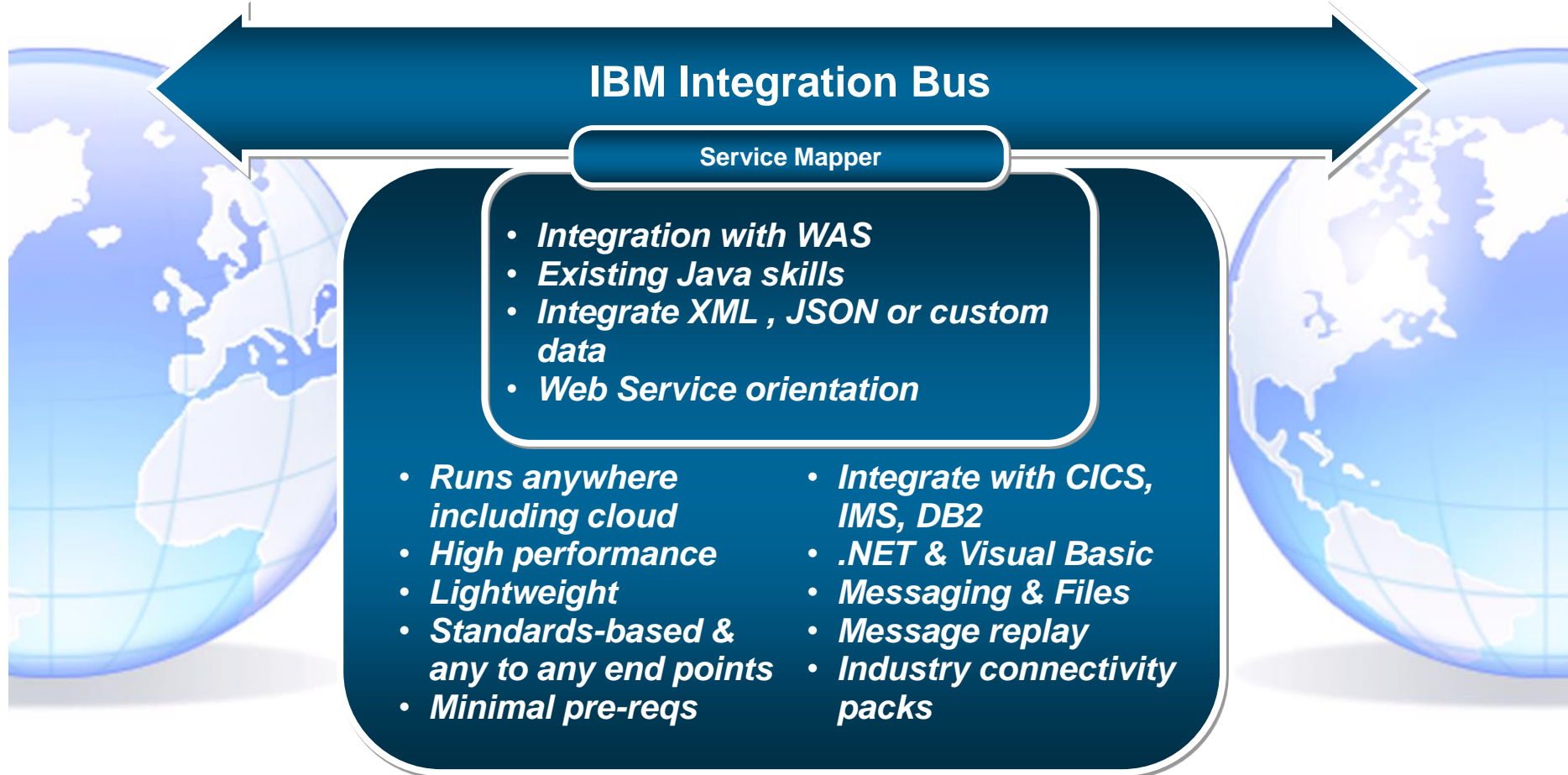
- Identical \$ value
- Comparable scalability
- Comparable capability

Option 2 (new)

2 PVU of WESB gives 1 PVU of IIB Advanced plus 1 PVU of IIB Idle Stand-by

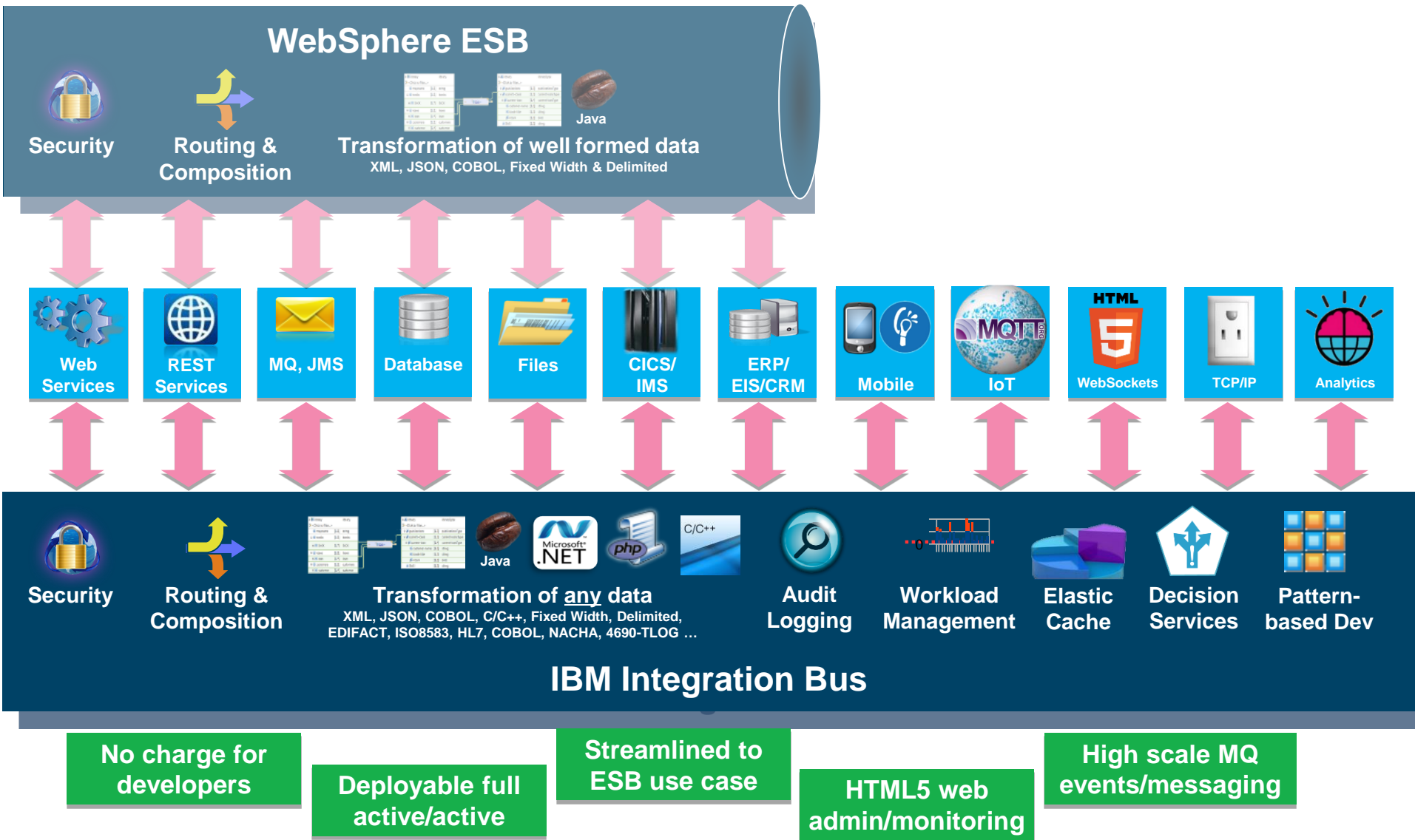
- Added \$ value
- Comparable scalability
- Enhanced capability
- Includes production usage of WebSphere Adapters
 - SAP, Siebel, PeopleSoft, JDEdwards
- IIB HA ready (active and idle parts included)

***Offering the best capabilities of both
WebSphere Message Broker and WebSphere ESB
Both standards-based and any-to-any***



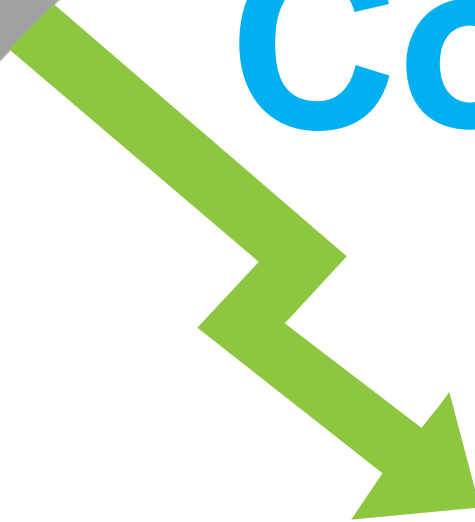
Service Mapper: Allows for simple integration tasks without needing deep ESB skills.
Narrowly scoped in capability for mapping between service interfaces to assist integrations

Moving to a functionally richer product





Lower Your Costs



Lower Your Costs

▪ Software cost reduction

- No need for separate Integration Designer toolkit licenses
- Development and Unit Test environments are free on IIB
- No need for IIB run time licenses for functional verification testing
- Active:Passive High Availability with priced Idle standby licensing
 - Idle is 20% cost of full license



▪ IIB Advanced includes production usage entitlement of business adapters

- SAP, Siebel, Psoft, JDEdwards



SIEBEL

JDEdwards
Enterprise Software

▪ Operational cost reduction

- IIB / WMB has been in the market for many more years than WESB
- Superior targeted user-level problem determination features
 - Record & Replay, Accounting & Stats, Activity Log
- Larger install base
- Larger community, more opportunities to find answers
- Larger quantity of IIB tech docs & education videos freely available

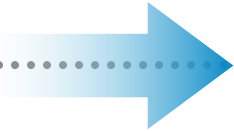


The Easy **Move**

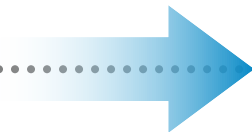


The Easy Move

Like moving to a **bigger** house



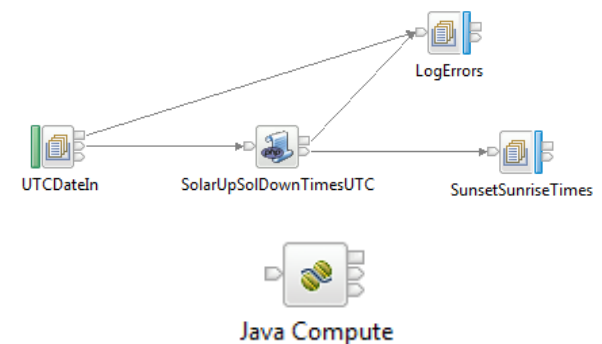
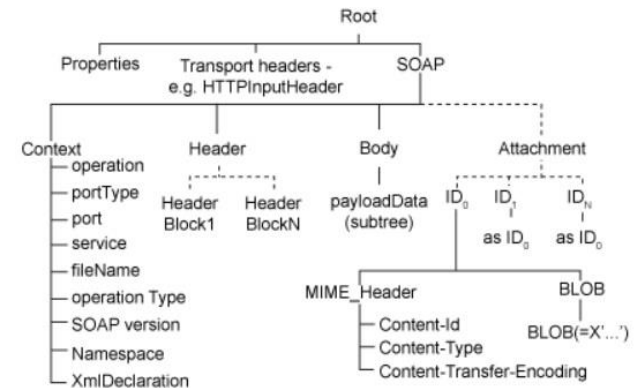
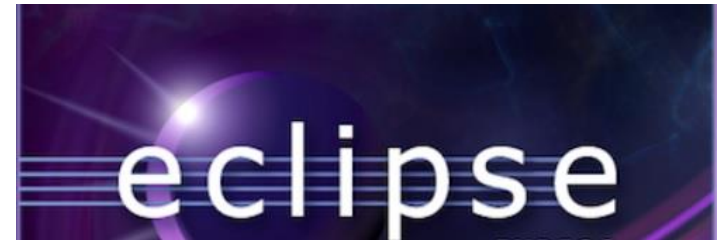
not to a **new** planet



The Easy Move

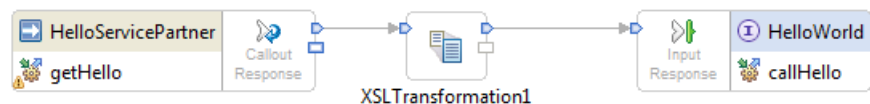
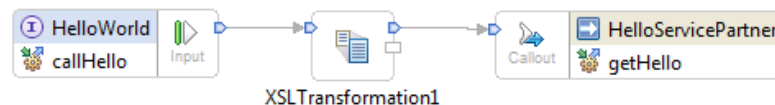
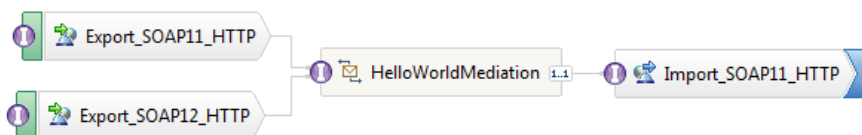
- More familiar than you might think!

- Familiar Eclipse-based tooling
- Structured Messages
 - Transport headers
 - Context
 - Payload
- Wired flows
- Processing nodes
 - Properties for customization
 - In, Out & Fail terminals
- Messages
 - Flow in as a request
 - Pass through interconnected processing nodes
 - Flow out as a response
- Standards
 - WS, MQ, JMS, SOAP, HTTP, JDBC, Email, FlatFile, FTP, CICS, IMS
- Java for custom logic
- Subflows

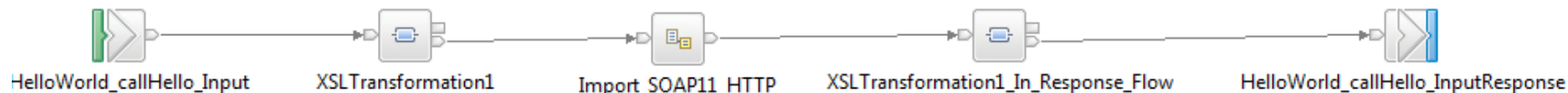


The Easy Move – Flow structure maps from WESB to IIB

WESB



IIB



Much more detail on this in the WESB Conversion Tool presentation later

The Easy Move - Easy to Learn

Simple basic concepts supporting powerful capability

- Wide range of **Patterns** and **Samples** for common scenarios
 - Learn by practical example
 - Explore possibilities by customizing a working flow rather than starting from scratch

- IBM Education Assistant
 - Videos freely available
 - Show hands-on how-to

WebSphere Message Broker Version 8.0.0.0 > Product overview > Samples > Technology samples > File Processing

File Output sample

This sample consists of one message flow that demonstrates one way that you can use a FileOutput node.

Click the following links to find out more about this sample:

- [Import and deploy: 5 minutes](#)
- [Read about the sample](#)
- [Setup instructions](#)

You can set up the sample in one of the following ways:

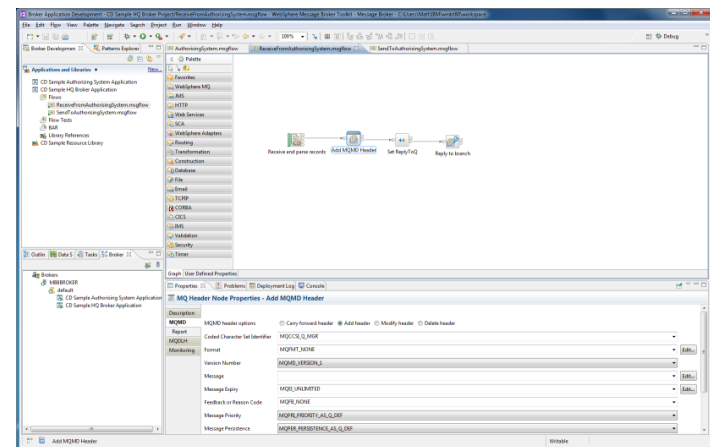
- [Import and deploy](#)
This option imports the sample files into the broker. This option also sets up the sample in the broker. The broker requires MQ.
- [Import the sample](#)
This option imports the sample files into your workspace. Additional manual steps might be required to configure the sample for testing.

You can import or import and deploy a sample only when you use the information center that is integrated with the WebSphere Message Broker Toolkit.

[Run the sample](#)

When you have finished with the sample, you can remove it in one of the following ways:

- [Remove the sample from the broker, but leave its resources in the workspace](#)
- [Remove the sample from the broker and the workspace](#)



The Easy Move – Different naming, same function

WESB	IIB	Definition
Mediation module	.bar file	The unit of deployment of mediation capability
Mediation primitive	Node	An individual function applied to a message
Export component	Message flow	Provides inbound receipt of requests and sending responses
Import component	Message flow	Provides outbound sending of requests and receipt of responses
Flow component	Message flow	Contains request, response, fault and error flows
Binding	Input/output node	Protocol/transport specific configuration associated with an import or export
Function Selector	Route node	Pluggable logic which identifies the operation from a wire format message
Fault Selector	Route node	Pluggable logic which identifies the fault name from a wire format message
Business Object	Payload	Memory representation of an input/output/fault message
Service Message Object	Message tree	Memory representation of a Business Object plus additional contextual information

[See IIBv10 documentation for a more complete list of name mappings](#)

Additional **Capability**

Beyond WebSphere ESB



Positions better with landscapes of the future

- Format data stream and apply predictive rules-based model
- Patterns for rapid mobile integration, including Worklight artifacts
- Cloud install and configure automation
- Community engagements points for developers and administrators



Additional functional nodes

Less customized Java code required, more maintainable

- Quicker time to value
- Lower barrier to entry, lower skills requirement

TCP/IP

Timeout

.Net

FTP, SFTP

Rules-based decisions

IMS

CORBA

PHP

Email

Managed File Transfer

Easy data modeling of any message using DFDL

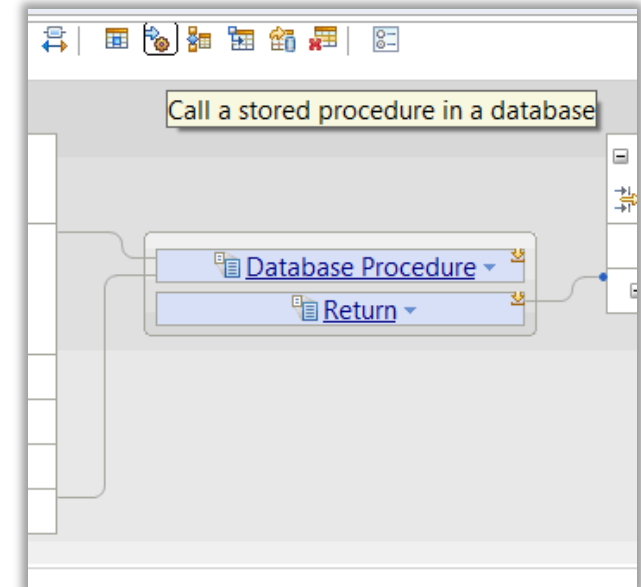
- Data Format Description Language – Standard based
- WESB is good for XML modeling
- IIB easily models any message format easily with DFDL
- High performance parsing and serialization

```

DFDL Test - Parse: Runs the DFDL parser with the provided physical input data and
Status: Parsing completed: Thu Jun 14 12:06:05 BST 2012
Input
Data: /ST_DFDL_CSV/TestData.txt
Parsed Input
Characters
1 Year,Make,Model,Description,Price
2 2009,SK-Inc,MBTk7,"4293cc,-V8",53880.00
3 2010,Hans-On,DFDL,"3000cc,-straight-6",313
4 2010,AOD-corp,MB8,"4163cc,-V8",51435.00
  
```

Next generation graphical data transformation mapper (GDM)

- Maps the (DFDL) modeled message data from source to destination



JAXB Java transformations

Write Java transformations using simple standard JAXB-style object model get and set operations

```

// -----
// Add user code below to build the new output data by updating
// your Java objects or building new Java objects
Customer inMsgJavaCust = (Customer) inMsgJavaObj;
String custID = inMsgJavaCust.get

// End of user Java object proces
// -----

// TODO set the required Broker d
Document outDocument = outMessage
    .createDOMDocument(MbXMLN
// -----
  
```

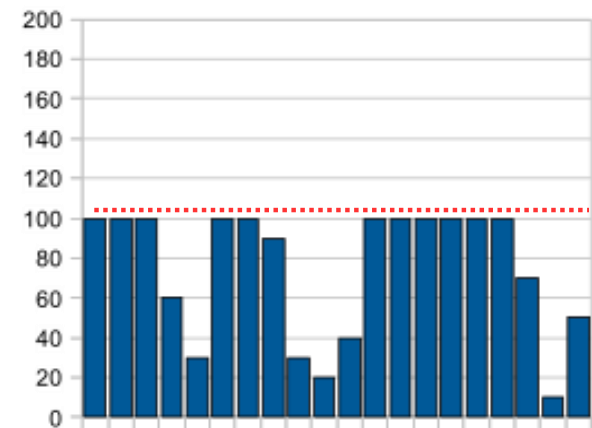
Browser based web administration

- Graphical visualization, statistics and analytics
- Zero footprint, no client maintenance or v2v updates required



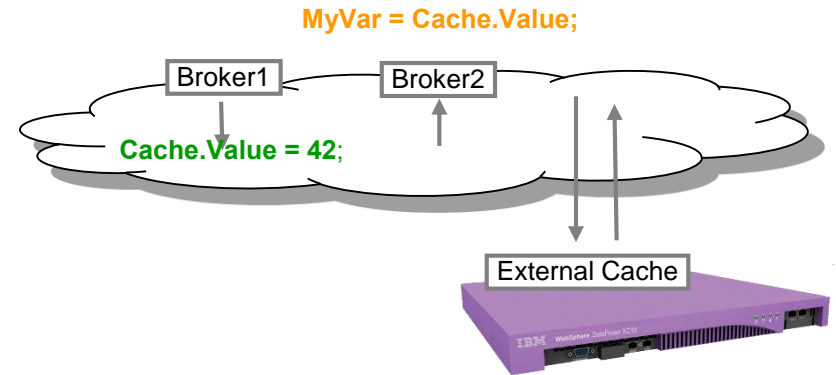
Built in workload management via policy

- Notify threshold
- Max flow rate
- Unresponsive flows



High performing global cache

- Uses WebSphere eXtreme Scale coherent cache technology
- Share data between multiple integration nodes to improve response times and correlation times
- Support for external eXtreme Scale and DataPower XC10 appliances



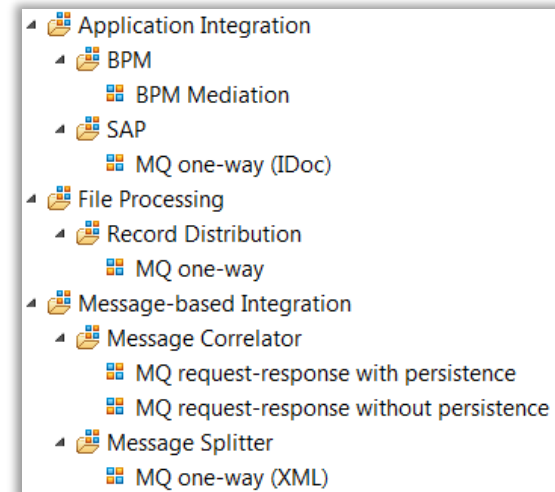
Reuse, expandable

Patterns

- No need to start from a blank screen
- Rapid development
- Lower barrier to entry, lower skills required

Pattern Authoring – reusable, customizable artifact

User Defined Nodes



IIB is Lean and Fast

Focused on user experience



IIB is Lean and Fast

Download, install and create a service

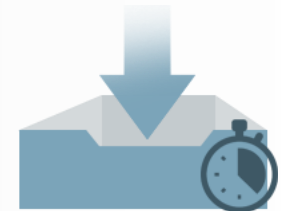
IBM Integration Bus v10 (open beta)

- First time user experience



Download & Install in 10 minutes

- Developer Edition
- Reduced footprint



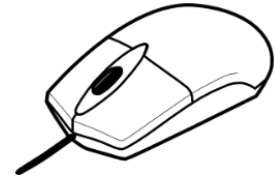
Expose my first service in 40 minutes



Open Beta:
Download: ibm.biz/iibopenbeta
Discuss: ibm.biz/iibopenbetaforum

IIB is Lean and Fast – Count the Clicks

Focused efficiency of user experience



Reuse an existing asset

..... 4 clicks

Deploy & test a simple integration

..... 4 clicks

Diagnose and resolve a problem

..... 4 clicks

Customize a java integration

..... 10 clicks

Redeploy on a new platform

..... drag & drop

Enable a service to be monitored

..... 2 minutes

Information & Education



Education – Finding conversion news & additional information

WESB to IIB Conversion Community

https://www.ibm.com/developerworks/community/wikis/home?lang=en#!/wiki/W37b629a0f7aa_4709_9506_bba2a096693d/page/WebSphere%20ESB%20conversion

WebSphere ESB Conversion Tool

IBM Integration Bus supplies a WebSphere ESB conversion tool as part of the Integration Toolkit. The conversion tool accelerates the creation of IBM Integration Bus flows created for WebSphere Enterprise Service Bus in WebSphere Integration Developer or IBM Integration Designer to IBM Integration Bus.

The conversion tool follows a five-step process:

1. Import WebSphere ESB assets in a Project Interchange File
2. Select the objects within the file to be converted
3. Identify the converters (built-in, placeholder or custom) to be used for each object
4. Convert the assets, generating corresponding IBM Integration Bus flows
5. Review and action tasks created by the conversion process to complete the conversion

IBM Integration Bus v9 supplies a selection of built-in converters, a place-holder converter which creates an empty subflow, and *two* `san`

For more information on the conversion tool, see [The WebSphere ESB conversion tool](#) and [Converting WebSphere Enterprise Service Bus resources by using the WebSphere ESB conversion tool](#).

You can download a free to use version of the Integration Toolkit as described [Getting started with IBM Integration Bus for Developers](#). The conversion tool.

In order to enable and encourage 3rd-party extension of the conversion tool, the source code has been published on the [Open Technologies for Integration \(OT4I\) github repository](#).

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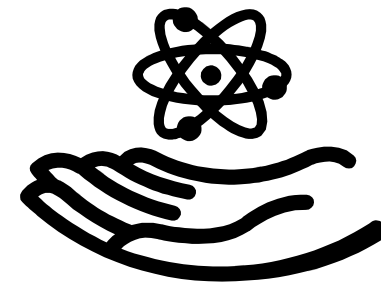
Education – One day IIB Proof of Technology (PoT) education



IIB detailed technical background of functional and administrative capability

Hands-on lab exercises

(contact your IBM account team)



Education – IBM Education Assistant (IEA) videos

IBM Education Assistant (free educational videos etc)

<http://publib.boulder.ibm.com/infocenter/ieduasst/v1r1m0/index.jsp>

The screenshot displays the IBM Education Assistant web application. At the top, the IBM logo and the text "Education Assistant" are visible. Below this is a navigation bar with links for Home, Business solutions, IT services, Products, Support & downloads, and My IBM. A search bar is present with a "GO" button and a "Search scope: All topics" dropdown. The left sidebar, titled "Contents", lists various product categories, with "IBM Integration Bus" selected and expanded to show version "V9.0". The main content area, titled "IBM Integration Bus", features a large heading "IBM Education Assistant" and a sub-heading "IBM Integration Bus". Below this is a colorful graphic and a "Description" section. The description states: "IBM Integration Bus is IBM's strategic integration product for Java, Microsoft .NET, and heterogeneous integration scenarios. IBM Integration Bus is designed to solve all integration requirements between back-end systems, from simple point-to-point connectivity to sophisticated topological patterns such as ESBs. It represents a significant evolution of the WebSphere Message Broker technology base and has a wide range of built-in connectors that enable integration between web services, files, databases, packaged applications such as SAP and Microsoft Dynamics CRM, plus a variety of configuration and transformation options such as graphical mapping, Java, and Microsoft .NET." At the bottom of the description, there is a YouTube icon and a link: "Solutions with a little help from IBM Education Assistant".

Education – Finding developer answers

IIB Developer site: **Get Started, Do More, Get Help**

<https://developer.ibm.com/iib/>

IBM Integration Bus Get started Do more Docs Blog Get answers Support Search

IBM Integration Bus

Download

Connect and enrich applications, regardless of their message formats or protocols.

See how to create your first integration solution, in Get started.

Get started

Download and use IBM Integration Bus for Developers V9.0 for free to create your first integration solution

Do more

Develop your integration solutions with self-study labs, videos, articles, and more from the IBM developers

Get help

Learn from the IBM developer team & the community. Join the discussion and get answers to your questions

Education – The Knowledge Collection

Pulling all the information sources together

Knowledge Collection migrating to IBM Integration Bus

<http://www-01.ibm.com/support/docview.wss?uid=swg27038014#7>

Knowledge Collection: Migration for IBM Integration Bus and WebSphere Message Broker

Education

Abstract

This Knowledge Collection is a compilation of links to the most frequently accessed technotes, webcast replays, developerWorks articles, blogs, videos and publications dealing with Migration of IBM Integration Bus (IIB) and WebSphere Message Broker (WMB).

Content

Directory of items within this Knowledge Collection

- ↓ Migration Assistance
- ↓ Collecting documentation for Migration problems
- ↓ Technotes
- ↓ Webcast Replays
- ↓ developerWorks Articles
- ↓ Blogs
- ↓ Videos
- ↓ Publications
- ↓ Knowledge Collections for IBM Integration Bus and WebSphere Message Broker

Thank
YOU

A large graphic of the words "Thank YOU" in a bold, sans-serif font. Each letter is filled with a different photograph of a person. The "T" shows a man in a white shirt and orange tie. The "h" shows a woman in a green top. The "a" shows a man in a blue shirt. The "n" shows a woman in a blue top. The "k" shows a man with glasses in a blue shirt. The "Y" shows a man in a blue shirt. The "O" shows a man in an orange shirt. The "U" shows a woman in a blue top. The letters have a slight drop shadow.