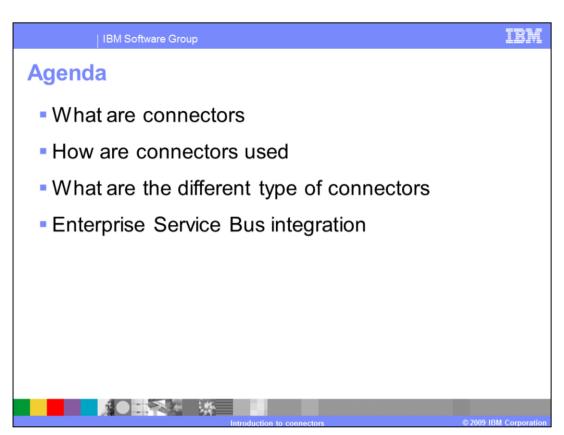
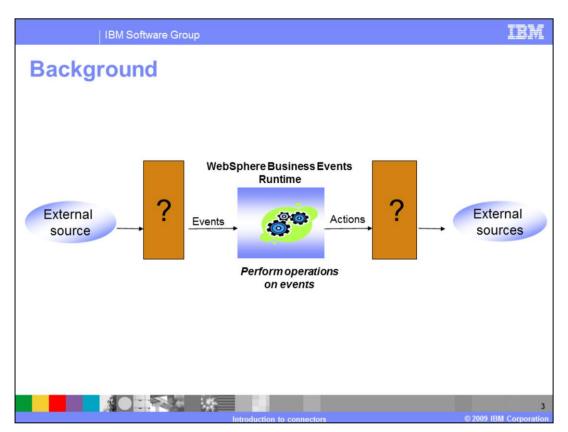


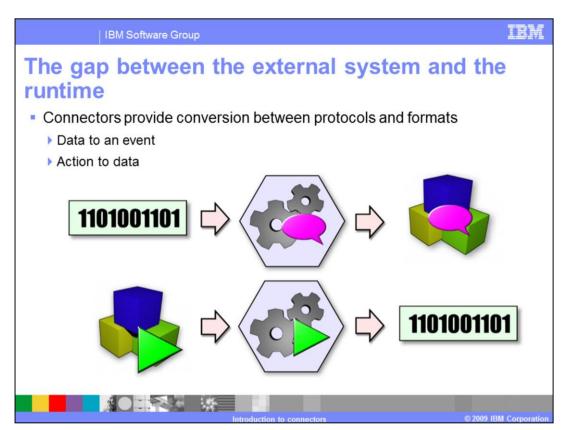
This presentation will provide you with an introduction to the WebSphere Business Events connectors.



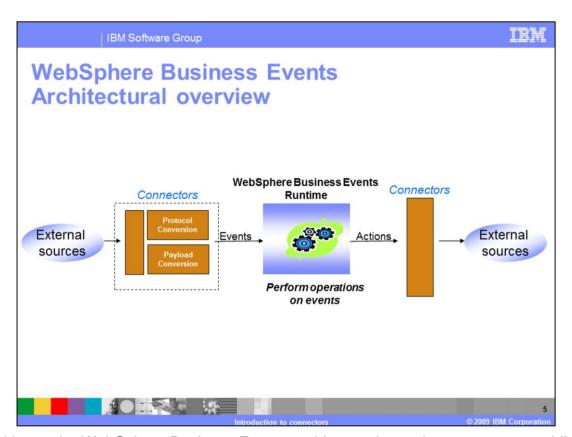
The purpose of this module is to describe the concept of connectors within WebSphere Business Events. This section will give a definition of connectors and describe how connectors are used in WebSphere Business Events. Furthermore the presentation will discuss how connectors are defined, and the different types of connectors available in the product.



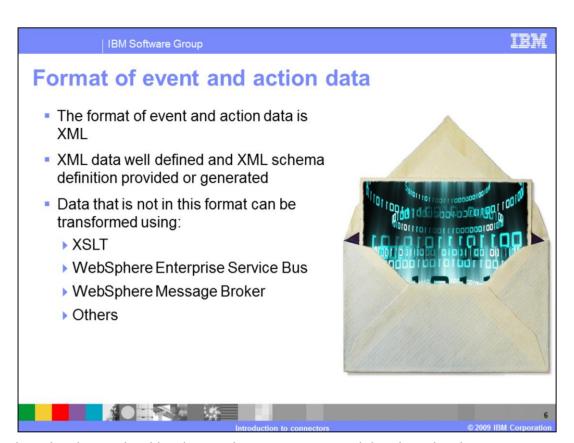
Previous presentations have already discussed the concepts of WebSphere Business Events' events, actions, intermediate objects, interaction sets and filters. Up until now very little detail has been provided on how physical data arrives at WebSphere Business Events in the form of an event or how action data externalized from WebSphere Business Events manifests itself outside the WebSphere Business Events world. This section will discuss how the actual events and actions are sent to and from their touchpoints within the WebSphere Business Events runtime environment.



A connector is a bridge between the external world of bits and bytes and the internal world of WebSphere Business Events. Connectors are defined as part of an event or action and are designed to translate WebSphere Business Events XML packets to and from the appropriate protocols. A connector gets data from an external system which results in an incoming event. In addition, when WebSphere Business Events generates an action, a connector can be called which externalizes data to an external system. The connectors can interact with a wide variety of transport protocols and technologies.

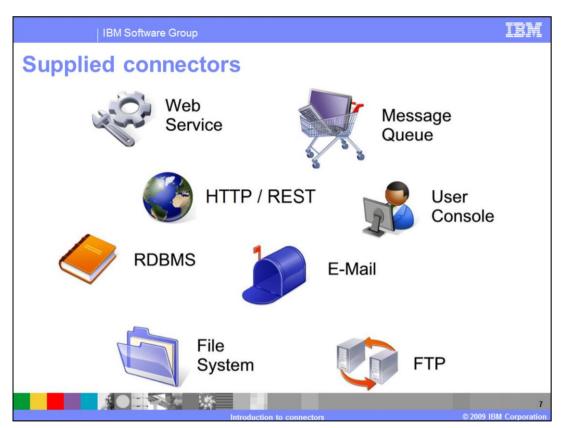


Looking at the WebSphere Business Events architectural overview, events are published by the event sources over a variety of communication protocols. The connectors have two main functions. Firstly, they convert the incoming event's protocol and secondly they convert the payload of the event. The end result is to put the event into a format which WebSphere Business Events can consume. After the events have been processed and the appropriate actions are created, the exiting connectors will also convert the proprietary action format into a consumable form for the external sources.



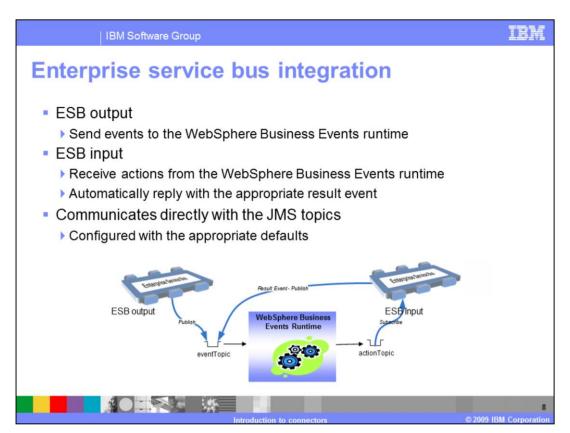
The data that is received by the runtime as events and the data that is sent out as actions is physically formatted and transmitted as an XML document. The structure of this XML is described by an XML schema that is supplied by the product, or generated for you in the case of custom data. If the incoming data you want to work with is either not XML or not appropriately formatted XML for WebSphere Business Events usage, then it needs to be modified into a conforming format. The data can be modified inside the WebSphere Business Events connectors through XSLT transforms or before arriving at WebSphere Business Events through technologies such as WebSphere ESB, WebSphere Message Broker, WebSphere Transformation Extender or others. The same story is also true for action data that is sent out for consumption by external applications. The data is sent out as an instance of an XML document. You will see later that the source and destination of the XML can be configured to transmit over a variety of protocols.

In summary, incoming event data is expected in a specific XML format. Outgoing action data is sent in a specific XML format. The format of the XML is documented by an XSD schema. If the data sent in is not the right format or the XML generated is not what is required, it must be transformed before use.

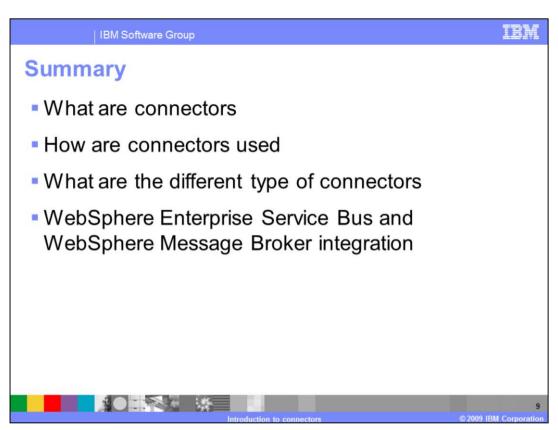


WebSphere Business Events provides a set of pre-supplied connectors for a variety of different technologies and data. The supplied connectors are shown in the slide.

These codeless connectors are defined and configured in the WebSphere Business Events design data tool and associated with an event or action.



Additional connectivity options are offered by the enterprise service bus products. WebSphere Business Events provides tight integration with WebSphere Message Broker and WebSphere Enterprise Service Bus. These enterprise service buses are able to do their own conversion into the WebSphere Business Events format and place the event messages directly for consumption by the WebSphere Business Events runtime, bypassing the connectors. Similarly, the enterprise service bus products can also receive actions emitted by WebSphere Business Events. The enterprise service buses can receive the actions and then convert them into consumable format for their external resources.



This presentation discussed the definition of connectors and how they are used in WebSphere Business Events to transform arriving events into a consumable format for WebSphere Business Events to process. Connectors are also used to transform actions as they are sent to their external sources. Additionally, the presentation described where connectors fit into the overall WebSphere Business Events architecture. Finally, the presentation introduced the different connectivity options available.

10

IBM Software Group

Trademarks, copyrights, and disclaimers

IBM, the IBM logo, ibm.com, and the following terms are trademarks or registered trademarks of International Business Machines Corporation in the United States, other countries, or both:

WebSphere

If these and other IBM trademarked terms are marked on their first occurrence in this information with a trademark symbol (® or ™), these symbols indicate U.S. registered or common law trademarks owned by IBM at the time this information was published. Such trademarks may also be registered or common law trademarks in other countries. A current list of other IBM trademarks is a variable on the Web at "Copyright and trademarks information" at https://www.lbm.com/legal/copytrade.shtml

Other company, product, or service names may be trademarks or service marks of others

Product data has been reviewed for accuracy as of the date of initial publication. Product data is subject to change without notice. This document could include technical inaccuracies or typographical errors. IBM may make improvements or changes in the products or programs described herein at any time without notice. Any statements regarding IBM's future direction and intent are subject to change or withdrawal without notice, and represent goals and objectives only. References in this document to IBM products, programs, or services does not imply that IBM intends to make such products, programs or services available in all countries in which IBM operates or does business. Any reference to an IBM Program Product this document is not intended to state or imply that only that program product may be used. Any functionally equivalent program, that does not infringe IBM's intellectual property rights, may be used instead.

THE INFORMATION PROVIDED IN THIS DOCUMENT IS DISTRIBUTED "AS IS" WITHOUT ANY WARRANTY, EITHER EXPRESS OR IMPLIED, IBM EXPRESSLY DISCLAMS ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NONINFRINGEMENT. IBM shall have no responsibility to update this information, IBM products are warranted, if at all, according to the terms and conditions of the agreements (for example, IBM Customer Agreement, Statement of Limited Warranty, International Program License Agreement, etc.) under which they are provided, Information concerning non-IBM products was obtained from the suppliers of those products, their published announcements or other publicity available somes. IBM has not tested those products in connection with this publication and cannot confirm the accuracy of performance, compatibility or any other claims related to non-IBM products.

IBM makes no representations or warranties, express or implied, regarding non-IBM products and services.

The provision of the information contained herein is not intended to, and does not, grant any right or license under any IBM patents or copyrights. Inquiries regarding patent or copyright licenses should be made, in writing, to:

IBM Director of Licensing IBM Corporation North Castle Drive Armonk, NY 10504-1785 U.S.A.

Performance is based on measurements and projections using standard IBM benchmarks in a controlled environment. All customer examples described are presented as illustrations of how those customers have used IBM products and the results they may have achieved. The actual throughput or performance that any user will experience will vary depending upon considerations such as the amount of multiprogramming the users 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 throughput or performance improvements equivalent to the ratios stateful here.

© Copyright International Business Machines Corporation 2009. All rights reserved.

Note to U.S. Government Users - Documentation related to restricted rights-Use, duplication or disclosure is subject to restrictions set forth in GSA ADP Schedule Contract and IBM Corp.

1 2 3 Connectors.ppt