



IBM Software Group

IBM® WebSphere® Application Server V7

WebSphere Application Server general enhancements to the service integration bus



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This presentation will discuss general enhancements to the service integration bus in WebSphere Application Server version 7.

Agenda

- General enhancements to the service integration bus in WebSphere Application Server version 7



This presentation will discuss the general enhancements to the service integration bus in WebSphere Application Server version 7.

General service integration bus enhancements

- Improved memory management
 - ▶ Less memory overhead when working with large messages
 - ▶ Useful if benchmarking applications
- Support for the final WS-Notification 1.3 specification
- Support for WS-N XPath 1.0 selectors
 - ▶ Enables content-based filtering of messages for consumption



Memory management has been improved in WebSphere Application Server version 7 when working with very large JMS messages.

Benchmarking applications with very large JMS messages should show improved performance in version 7.

Some Web services enhancements have also been included in the WebSphere Application Server version 7 messaging, including support for the final Web service notification 1.3 specification, and support for the Web service notification XPath 1.0 selectors.

Filtering of messages can be performed to narrow down which messages should be processed using XPath 1.0.

General service integration bus enhancements

- Wider support for RDBMS products for use as the message store and SDO repository
 - ▶ SQL Server® 2005
 - ▶ Sybase ASE 15
 - ▶ DB2® V9.5
 - ▶ Informix® 11
 - ▶ Oracle 11g
- Single server bus member can now be promoted to cluster
 - ▶ New command to move bus membership from server to cluster if server is converted into a cluster



A wider support for relational databases for use as the message store and SDO repository are introduced in WebSphere Application Server version 7.

Users of SQL server 2005, Sybase ASE 15, DB2 version 9.5, Informix 11, and Oracle 11g will now be able to use their databases as the message store and SDO repository where previously they could not.

Also, another features has been included that allows moving bus membership from a server to a cluster if the server that was a bus member is converted into a cluster.

General service integration bus enhancements

- Improved performance
 - ▶ Performance parameter defaults have been tweaked
 - ▶ Heap size is optionally adjusted on creation of a bus member
 - Seen as an extra step in the wizard during bus member addition
- V7 messaging engine now issues three new JMX messages for messaging engine events
 - ▶ Starting
 - ▶ Stopping
 - ▶ Failed
 - ▶ Complements the Start and Stop messages



Performance parameter defaults have been tweaked in WebSphere Application Server version 7, and the bus heap size is now available to be optionally adjusted when creating a bus member.

Three new JMX messages have also been added for messaging engine events, including starting, stopping, and failed, which complement the start and stop messages that existed in the previous version of WebSphere messaging.

Summary

- This presentation has covered general enhancements to the service integration bus provided by WebSphere Application Server V7.0



This presentation has covered general enhancements to the service integration bus in WebSphere Application Server version 7.

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