



IBM Software Group

IBM WebSphere® Application Server V7.0 Feature Pack for Service Component Architecture V1.0.1

JMS binding administration



@business on demand.

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This presentation will look at the administration; specifically how to configure JMS binding on the administrative console.

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Create a new bus

Integrated Solutions Console Welcome wsdemo Help | Logout

View: All tasks

Cell=wsbeta151Node01Cell, Profile=AppSrv01

Buses

Buses
A service integration bus supports applications using message-based and service-oriented architectures. A bus is a group of interconnected servers and clusters that have been added as members of the bus. Applications connect to a bus at one of the messaging engines associated with its bus members.

Preferences

New Delete

Select	Name	Description	Security
			None
Total 0			

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JMS binding resources can be configured from the administrative console.

The first step is to create a new bus. From the administrative console, expand **Service integration>Buses** menu, click **New** to create a new service integration bus.

Create a new bus (continued)

View: All tasks

- Welcome
- Guided Activities
- Servers
- Applications
- Services
- Resources
- Security
- Environment
- System administration
- Users and Groups
- Monitoring and Tuning
- Troubleshooting
- Service integration
 - Buses
 - Web services
 - WS-Notification
- UDDI

Create a new Service Integration Bus

Create a new Service Integration Bus

Create a new Service Integration Bus.

→ **Step 1: Create a new bus**
(The next step of the wizard depends on decisions made in the current step)

Step 2: Confirm create of new bus

Create a new bus

Configure the attributes of your new bus.

* Enter the name for your new bus.
jmsTestbus

Bus security

Next Cancel

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Use the wizard to finish creating the service integration bus.

New bus created

The screenshot displays the IBM Integrated Solutions Console interface. The main heading is "New bus created". The console shows a navigation tree on the left with categories like "Guided Activities", "Servers", "Applications", "Services", "Resources", "Security", "Environment", "System administration", "Users and Groups", "Monitoring and Tuning", "Troubleshooting", "Service integration", and "UDDI". The "Service integration" category is expanded to show "Buses", "Web services", and "WS-Notification". The "Buses" section is selected, and a table lists the resources. A red dashed box highlights the entry "jmsTestbus" in the table, with a red arrow pointing to it and the text "New bus created" below. The table also shows "Total 1".

Integrated Solutions Console Welcome wsdemo

View: All tasks

Cell=wsbeta151Node01Cell, Profile=AppSrv01

Buses

A service integration bus supports applications using interconnected servers and clusters that have been engines associated with its bus members.

Preferences

New Delete

Select Name

You can administer the following resources:

Select	Name
<input type="checkbox"/>	jmsTestbus

Total 1

New bus created

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Note the new service integration bus created. Once the bus is created click the bus name to create a destination queue for it.

Adding bus members and destinations

The screenshot shows the IBM JMS binding administration console. At the top, the breadcrumb navigation is 'Buses > jmsTestbus'. Below this, there is a description of a service integration bus. The main area is divided into two tabs: 'Configuration' and 'Local Topology'. The 'Local Topology' tab is selected and shows a tree view of the bus structure. The tree view has three main sections: 'General Properties', 'Topology', and 'Destination resources'. Under 'General Properties', there are fields for 'Name' (jmsTestbus), 'UUID' (BFBBD953DFB58A9B), and 'Description'. Under 'Topology', there are three sub-items: 'Bus members', 'Messaging engines', and 'Foreign bus connections'. Under 'Destination resources', there are two sub-items: 'Destinations' and 'Mediations'. Red dashed boxes highlight the 'Bus members' and 'Destinations' links, with red arrows pointing to them. At the bottom of the console, there is a footer with 'JMS binding administration' and '© 2009 IBM Corporation'.

From the bus created, you can add bus members by clicking the **Bus members** link and destinations by clicking the **Destinations** link.

Accessing destination queue or topic space

The screenshot shows the configuration page for a bus named 'jmsTestbus'. The page is divided into several sections:

- General Properties:** Includes fields for Name (jmsTestbus), UUID (BFBD953DFB58A9B), and Description.
- Topology:** A list of links including Bus members, Messaging engines, Foreign bus connections, and Bootstrap members.
- Destination resources:** A section containing a link for Destinations, which is highlighted with a red dashed box and a red arrow.
- Services:** A list of links including Inbound services, Outbound services, WS-Notification services, and Reliable messaging state.
- Additional Properties:** A list of links including Custom properties and Security.

At the bottom of the page, there is a footer with the text 'JMS binding administration' and '© 2009 IBM Corporation'.

To access the destination queue or topic space, click “Destinations” under the bus name.

Destination topic space

Integrated Solutions Console Welcome wsdemo

View: All tasks

- Welcome
- Guided Activities
- Servers
- Applications
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 - WS-Notification
- UDDI

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Buses

Buses > jmsTestbus > Destinations

A bus destination is defined on a service integration bus, and is hosted by one or more location the destination as producers, consumers, or both to exchange messages.

Preferences

New Delete Mediate Unmediate

Select Identifier Bus Type

You can administer the following resources:

Select	Identifier	Bus	Type
<input type="checkbox"/>	Default.Topic.Space	jmsTestbus	Topic space
Total 1			

Destination topic space name

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To configure the bus destination to handle failed messages, click the menu, **Service integration > Buses > bus_name > Destinations > destination_queue_name** or **destination_topic_space_name**.

Note that you can also click the **"New"** button to create a new queue.

Configure failed messages

Buses > jmsTestbus > Destinations > Default.Topic.Space
A topic space is a location for publish/subscribe messaging.

Configuration

General Properties	Message points
Identifier Default.Topic.Space	<input type="checkbox"/> Publication points
UUID 6A93A4569E29DAB1E8F5E6DB	<input type="checkbox"/> Mediation points
Type Topic space	Additional Properties
Description	<input type="checkbox"/> Context properties
Mediation	Related Items
Quality of Service	<input type="checkbox"/> Application resources topology
<input checked="" type="checkbox"/> Enable producers to override default reliability	<input type="checkbox"/> Audit Service
Default reliability Assured persistent	
Maximum reliability Assured persistent	
Default priority 0	
Exception destination	
<input checked="" type="radio"/> None <input type="checkbox"/> Override messaging engine blocked retry timeout default	
Blocked retry timeout in milliseconds -1	
<input type="radio"/> System	
<input type="radio"/> Specify \$DEFAULT_EXCEPTION_DESTINATION	
Maximum failed deliveries per message 5	
<input checked="" type="checkbox"/> Send allowed	
<input checked="" type="checkbox"/> Receive allowed	

When you click the destination queue or topic, this configuration window comes up. It's from this window that you configure how failed messages for the transactions are handled.



JMS resources can be created from the administrative console **Resources-> JMS->** menu. From this list, you can create queues and topics, create connection factories, create activation specifications and so on.

References

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- IBM Education Assistant

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- SCA white papers

http://www.ibm.com/developerworks/websphere/library/techarticles/0812_beck/0812_beck.html



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