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Audience

This document is intended for use by the WAS administration team in establishing JMS Resources for use by the ShamenWeb project on the DOCCMNPRIV cell. The information provided is what is known from an application developer's standpoint and does not include best practices. Development, test, and production environments may differ significantly in resources and configurations, please direct any questions not covered in this document to the point of contact listed below.

ShamenWeb Application Server Contact Information

The following information is provided by the Department of Corrections Application Development Team. To discuss modifications to the environment or setup process please contact:
Name: Addison Woody
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Websphere Server General Information

The setup requested is for new environment servers that will be utilized for application by the DOC App Dev group. The following specifications for the server should already be in place: WebSphere Platform 9.0 [ND]. The applications will utilize Java version 1.8.

JMS Configuration

The JMS configuration specs provide the WAS with the information needed to connect to the WebSphere MQ (WMQ) server that will manage the messaging process. The WMQ has been previously configured and tested, therefore the following JMS Configuration values must be entered exactly as they appear and cannot be changed without consultation with the point of contact or the DOC Tech group. Please pay special attention to the use of both camel-case and ALL_CAPS in the fields below as they must be adhered to when entering JMS resources. All configuration will occur in Resources → JMS menu on DOCCMNPRIV. All new JMS resources will utilize WebSphere MQ messaging provider, NOT Default or V5. Unless explicitly stated, please use the WAS default selections for all other settings.

Connection Factories

Shamen uses a single connection factory to link the WAS to the WMQ so that messages may be sent and received between web and batch applications alike.

Type: WebSphere MQ messaging provider

Name: CO_SconT

JNDI name: CO_SconT

Queue Manager: CO_SHMNT

Transport: Client

Select: Enter host and port information in the form of a connection name list

Connection Name List: Unknown

Server Connection Channel: CO_SHMNT

Queues

JMS Queues are established under the Resources → JMS → Queues. After selecting "new" and "WebSphere MQ messaging provider", enter the information contained in the following table in the fields for "Name", "JNDI name", "Description", "Queue name", and "Queue manager or Queue sharing group name".

Name	JNDI Name	Description	Queue Name	Queue Manager
CO.Shamen.REQST	CO.Shamen.REQST	This destination is used for point to point messaging to Shamen.	CO.Shamen.REQST	CO_SHMNT
CO.WebApp.REQST	CO.WebApp.REQST	This destination is used to communicate with Shamen Web clients.	CO.WebApp.REQST	CO_SHMNT
CO.WebOut.REQST	CO.WebOut.REQST		CO.WebOut.REQST	CO_SHMNT
CO.Control.REQST	CO.Control.REQST	This destination is used to communicate with Shamen Batch Application Controllers.	CO.Control.REQST	CO_SHMNT
CO.ShamWeb.REQST	CO.ShamWeb.REQST	This destination is used to by web clients to communicate with Shamen.	CO.ShamWeb.REQST	CO_SHMNT

Topics

JMS Topics are established under Resources → JMS → Topics. After selecting "new" and "WebSphere MQ messaging provider", enter the information contained in the following table in the fields for "Name", "JNDI name", "Description", "Topic name", and "Broker publication queue manager".

Name	JNDI Name	Description	Topic Name	Queue Manager
CO.Control.TOPIC	CO.Control.TOPIC	This topic space is used by Shamen to communicate with controller clients.	CO.Control.TOPIC	CO_SHMNT
CO.WebApp.TOPIC	CO.WebApp.TOPIC		CO.WebApp.TOPIC	CO_SHMNT

Activation specifications

A JMS activation specification is associated with one or more message-driven beans and provides configuration necessary for them to receive messages. They are established under Resources → JMS → Activation specifications. After selecting "new" and "WebSphere MQ messaging provider", use the wizard to enter the provided values. If a value is not explicitly listed, use the default selection.

Name: ShamenJMSConsumer

JNDI name: jms/ShamenJMSConsumer

Destination JNDI name: CO.Shamen.REQST

Destination type: Queue

Queue manager: CO_SHMNT

Transport: Client

Select: Enter host and port information in the form of a connection name list

Connection name list: Unknown

Server connection channel: CO_SHMNT

Name: ShamenJmsApplicationConsumer

JNDI name: jms/ShamenJmsApplicationConsumer

Destination JNDI name: CO.ShamWeb.REQST

Destination type: Queue

Queue manager: CO_SHMNT

Transport: Client

Select: Enter host and port information in the form of a connection name list

Connection name list: Unknown

Server connection channel: CO_SHMNT