



Configuring JMS Clients



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Configuring JMS Clients

The following topic provides instructions on how to configure JMS Clients in Repository-based projects within the Sun Java™ Composite Application Platform Suite (Java CAPS). Java CAPS. Additional information is given in the *Java CAPS JMS Reference*. If you have any questions or problems, see the Java CAPS web site at <http://goldstar.stc.com/support>.

- “Configuring JMS Clients” on page 5

Additional details on the configuration process are provided in the following sections:

- “Root Properties” on page 6
- “Basic Properties” on page 7
- “Redelivery Handling Properties” on page 9
- “Advanced Properties” on page 11

Configuring JMS Clients

JMS clients are of two basic types: *producers* and *consumers* (or a combination of both). If associated with a queue, these become queue *senders* and *receivers*, respectively. If associated with a topic, they become topic *publishers* and *subscribers*, respectively. The configuration parameters vary according to the type of JMS Client.

Note – To reconfigure an existing JMS client, redeploy the Deployment Profile.

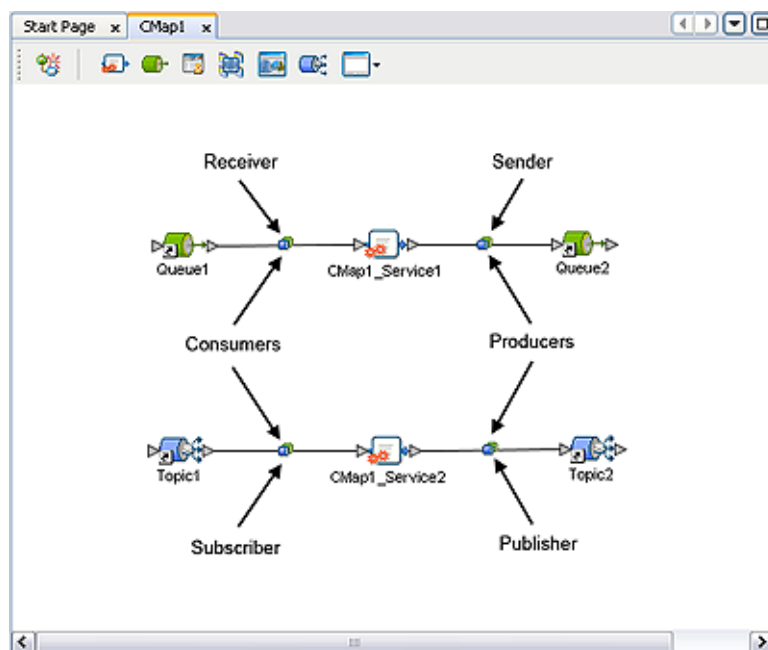


FIGURE 1 JMS Client Types

▼ To Configure a JMS Client

- 1 Double-click on the client icon to display the appropriate configuration dialog.
- 2 Click in the value field for each property to open the field for editing. If no menu appears, then you can enter free text.
- 3 Click OK to save your selections.

Root Properties

Properties appear in the root dialog only if the client is a *topic subscriber*.

Double-clicking the JMS client icon displays the following dialog.

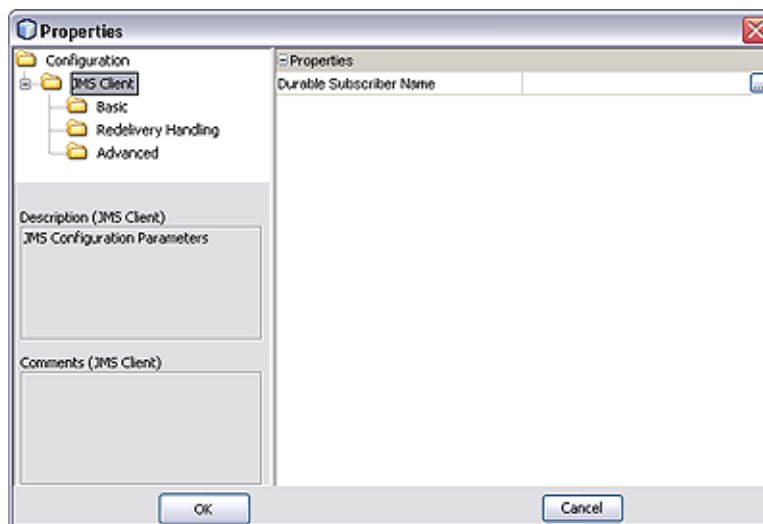


FIGURE 2 JMS Client Configuration Properties Dialog (Subscriber)

TABLE 1 JMS Client Configuration Properties

Property	Applies to	Description
Durable Subscriber Name	Topic subscribers only	Specifies the durable subscriber name.

Note – Once set, the Durable Subscriber Name does not get autogenerated, and can only be changed manually. Copies of the Connectivity Map will also retain this name.

Basic Properties

Which properties appear in the dialog depends upon whether the client is a producer or consumer.

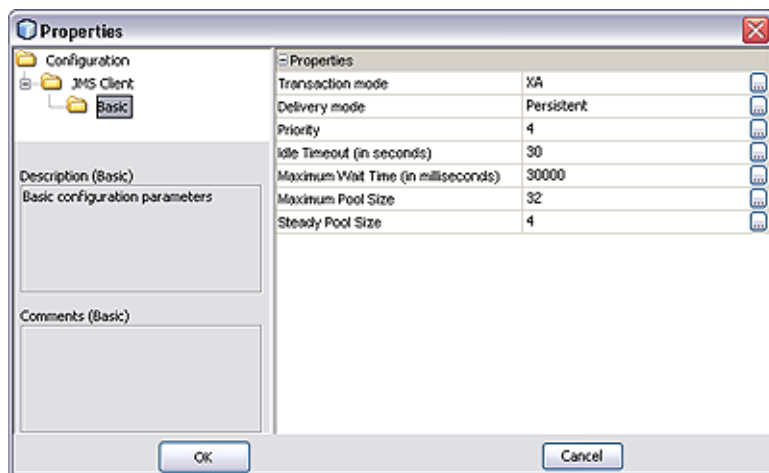


FIGURE 3 JMS Client Basic Configuration Properties Dialog (Producer)

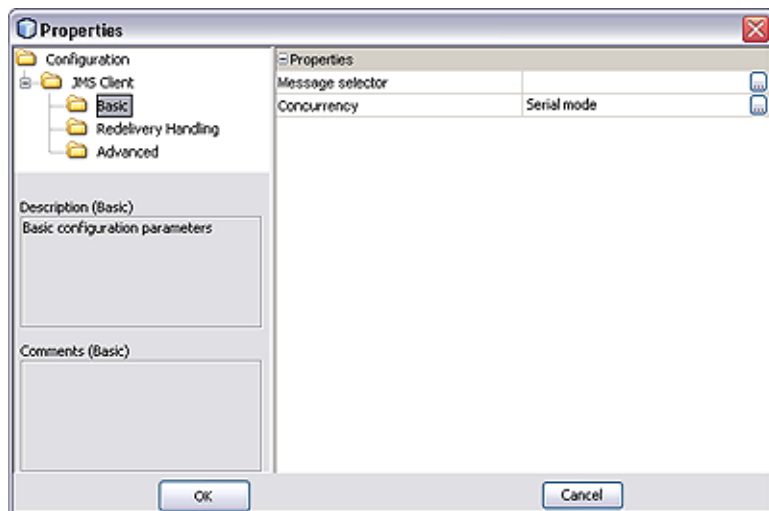


FIGURE 4 JMS Client Basic Configuration Properties Dialog (Consumer)

TABLE 2 JMS Client Basic Configuration Properties

Property	Applies to	Description
Transaction mode	All producers	Specifies whether messages for this session use Transacted or XA mode. For consumers, the default is always XA; otherwise, the default is Transacted.

TABLE 2 JMS Client Basic Configuration Properties (Continued)

Property	Applies to	Description
Delivery mode	All producers	Specifies whether the messages for this JMS connection are persistent or non-persistent. The default is <code>Persistent</code> .
Priority	All producers	Specifies the message priority. Allowed values are 0 - 9; the default is 4.
Idle timeout	All producers	Specifies the number of seconds to wait before returning a connection to the pool. The default is 30 seconds.
Maximum Pool Size	All producers	Specifies the maximum number of connections to be made to the message server. The default is 32.
Maximum Wait Time	All producers	Specifies the maximum amount of milliseconds to wait for acquiring a connection before throwing an exception. The default is 30000 milliseconds.
Steady Pool Size	All producers	Specifies the minimum and initial number of connections maintained in the pool. The default is 4.
Message selector	All consumers	Specifies a message selector.
Concurrency	All consumers	Specifies whether the message consumers uses connection consumer or serialized processing. The default is <code>Serial</code> mode.

Redelivery Handling Properties

Redelivery has to do with the way messages are re-delivered after previous attempts at delivery have failed. You can override the default behavior of the message redelivery process by configuring your own custom characteristics for the JMS client. Additional details are given in the [Java CAPS JMS Reference](#), including an alternate method of configuring redelivery.

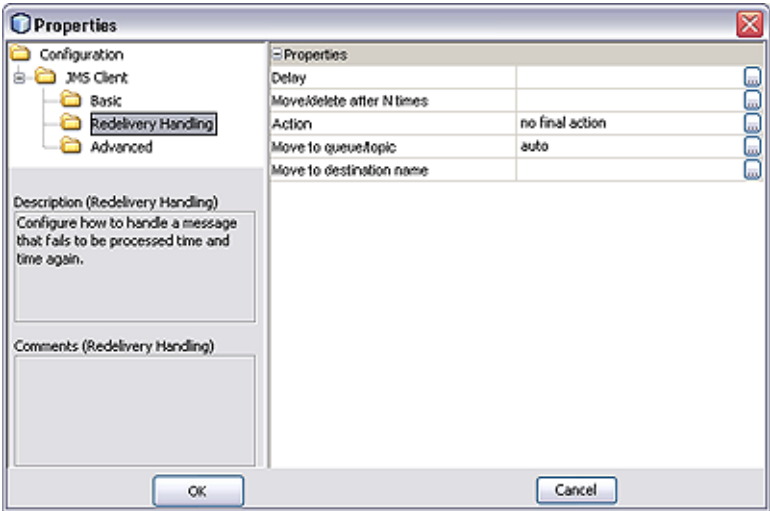


FIGURE 5 JMS Client Redelivery Handling Properties Dialog (Consumer)

TABLE 3 JMS Client Redelivery Handling Configuration Properties

Property	Applies to	Description
Delay	All consumers	Specifies the delay(s) to apply following a number of retries. The format is <retries:delay>, where the number of retries is counted from the original rollback and the delay time is in milliseconds. The maximum allowed delay is five seconds (5000 ms). Progressive delays can be specified by concatenating retry:delay pairs separated by a comma and a space.
Move/Delete after N times	All consumers	Specifies the number of retries to allow before moving (redirecting) or deleting the message. The number of retries is counted from the original rollback.
Action	All consumers	Specifies whether to move (redirect) or delete the message after the number of retries specified by the previous property. The default is no final action , which specifies continued retries until received.
Move to queue/topic	All consumers	Specifies whether to redirect to a queue or a topic , when move is selected as an action. The default is auto , which specifies redirection to a destination of the same type as the producer.

TABLE 3 JMS Client Redelivery Handling Configuration Properties (Continued)

Property	Applies to	Description
Move to destination name	All consumers	Specifies a name for the destination to which the message is to be redirected. The special character <\$> specifies the original destination name.

Advanced Properties

Which properties appear in the dialog depends upon whether the destination is a topic or queue.

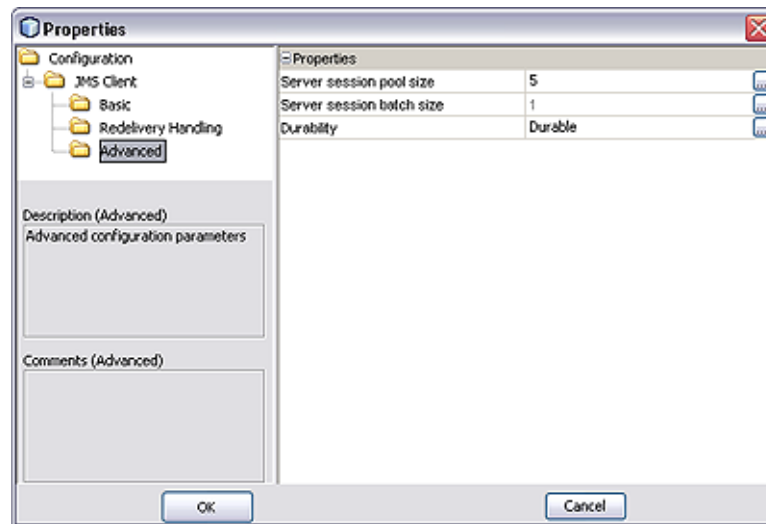


FIGURE 6 JMS Client Advanced Configuration Properties Dialog (Subscriber)

TABLE 4 JMS Client Advanced Configuration Properties

Property	Applies to	Description
Server session pool size	All consumers	Specifies the maximum number of threads per ServerSessionPool to be used for concurrent processing. The allowed values are 1 - 100. The default is 5.

TABLE 4 JMS Client Advanced Configuration Properties *(Continued)*

Property	Applies to	Description
Server session batch size	All consumers	Specifies the maximum number of messages that a connection consumer can load into a server session at one time. The default value is 1, and cannot be changed.
Durability	Topic subscribers only	Specifies whether or not the subscriber to this JMS client connection is durable. The default is <code>Durable</code> .