

XML static code analysis: "DefaultMessageListenerContainer" instances should not drop messages during restarts

2 minutes

`DefaultMessageListenerContainer` is implemented as a JMS poller. While the Spring container is shutting itself down, as each in-progress `JMS Consumer.receive()` call completes, any non-`null` return value will be a JMS message that the DMLC will *discard* due to the shutdown in progress. That will result in the received message never being processed.

To prevent message loss during restart operations, set `acceptMessagesWhileStopping` to `true` so that such messages will be processed before shut down.

Noncompliant Code Example

```
<bean id="listenerContainer"
class="org.springframework.jms.listener.DefaultMessageListenerContainer">
<!-- Noncompliant -->
  <property name="connectionFactory" ref="connFactory" />
  <property name="destination" ref="dest" />
  <property name="messageListener" ref="serviceAdapter" />
  <property name="autoStartup" value="true" />
  <property name="concurrentConsumers" value="10" />
  <property name="maxConcurrentConsumers" value="10" />
  <property name="clientId" value="myClientID" />
```

</bean>

Compliant Solution

```
<bean id="listenerContainer"
class="org.springframework.jms.listener.DefaultMessageListenerContainer">
  <property name="connectionFactory" ref="connFactory" />
  <property name="destination" ref="dest" />
  <property name="messageListener" ref="serviceAdapter" />
  <property name="autoStartup" value="true" />
  <property name="concurrentConsumers" value="10" />
  <property name="maxConcurrentConsumers" value="10" />
  <property name="clientId" value="myClientID" />
  <property name="acceptMessagesWhileStopping" value="true" />
</bean>
```