



# **BEA WebLogic Server<sup>R</sup> Web Services Reliable Messaging**

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## WS-ReliableMessaging Enhancements

WebLogic Server 10.0 included an implementation of the WS-ReliableMessaging 1.0 protocol. This release updates that support to the new [WS-ReliableMessaging \(WS-RM\) 1.1](#) version protocol approved by the OASIS WS-RX Working Group in June of 2007.

WS-RM 1.1 includes several protocol-level enhancements and changes, but does not significantly impact how clients interact with reliable services using WebLogic Service facilities (for example, stubs, WsrmlUtils). [Existing documentation for web services reliable messaging](#) (based on the WS-RM 1.0 specification) is still useful and valid. The remainder of this section assumes you are familiar with that existing documentation.

### ***Notable changes to the WS-RM 1.1 protocol***

The following changes have been made to the WS-RM 1.1 protocol:

1. The addition of a `close` sequence protocol message. Reliable clients may now choose to 'close' a reliable sequence, and get a full and complete accounting of the acknowledged messages in that sequence, prior to terminating the sequence.
2. The concept of a 'last message' has been removed for WS-RM 1.1. If you are using the WS-RM 1.1 protocol, you may not perform any operation which would attempt to set 'LastMessage' on a sequence message sent to the reliable messaging destination. Examples include the use of the `WsrmlUtils.setLastMessage` and `WsrmlUtils.sendEmptyLastMessage` methods.

### ***Using WS-Reliable Messaging***

In order to use the WS-RM 1.1 protocol in your web services, simply attach a WS-RM 1.1 policy to your reliable service (just like you would have attached a WS-RM 1.0 policy to your WS-RM 1.0 reliable service). This involves using the `@Policy` annotation on your reliable JWS. This release packages a `DefaultReliability1.1.xml` policy file to make it easy for you to enable your services for WS-RM 1.1. For example, the following JWS defines a reliable service using the WS-RM 1.1 protocol:

```
@WebService
@WLHttpTransport(contextPath="Wsrml1Simple",
serviceUri="ReliableEchoService")
@Policy(uri="policy:DefaultReliability1.1")
public class ReliableEchoService {

    private static String onewaySavedMsg = null;

    @WebMethod
    @Oneway
    public void echoOneway(String msg) {
        System.out.println("Echoing " + msg);
        onewaySavedMsg = msg;
    }
}
```

```
@WebMethod
public String echo(String msg) {
    return msg + onewaySavedMsg;
}
}
```

To close a reliable sequence, you can use the `wsrmUtils.closeSequence` method.