

Assertion Example

Table 2 lists an example use of the RM policy assertion.

Table 2: Example policy with RM policy assertion

```
(01) <wsdl:definitions
(02)     targetNamespace="example.com"
(03)     xmlns:tns="example.com"
(04)     xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
(05)     xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
(06)     xmlns:wsrmp="http://docs.oasis-open.org/wsrmp/200510/"
(07)     xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
wssecurity-utility-1.0.xsd" >
(08)
(09) <wsp:UsingPolicy wsdl:required="true" />
(10)
(11) <wsp:Policy wsu:Id="MyPolicy" >
(12)   <wsrmp:RMAssertion wsp:Usage='Informational'>
(13)     <wsrmp:InactivityTimeout Milliseconds="600000" />
(14)     <wsrmp:BaseRetransmissionInterval Milliseconds="3000" />
(15)     <wsrmp:ExponentialBackoff />
(16)     <wsrmp:AcknowledgementInterval Milliseconds="200" />
(17)   </wsrmp:RMAssertion>
(18)   <!-- omitted assertions -->
(19) </wsp:Policy>
(20)
(21) <!-- omitted elements -->
(22)
(23) <wsdl:binding name="MyBinding" type="tns:MyPortType" >
(24)   <wsp:PolicyReference URI="#MyPolicy" />
(25)   <!-- omitted elements -->
(26) </wsdl:binding>
(27)
(28) </wsdl:definitions>
(29)
```

Line (09) in Table 2 indicates that WS-Policy [[WS-Policy](#)] is in use as a required extension.

Lines (11-19) are a policy expression that includes a RM policy assertion (Lines 12-17) to indicate that WS-ReliableMessaging [[WS-RM](#)] must be used.

Line (12) `/@wsp:Usage` indicates that this assertion is informational, that is, it is not applied to the policy subject but requesters of the service are informed that the policy is in effect.

Line (13) indicates the endpoint will consider the Sequence terminated if there is no activity after ten minutes. Line (14) indicates the RM Source will retransmit unacknowledged messages after three seconds, and Line (15) indicates that exponential backoff algorithm will be used for timing of successive retransmissions should the message continue to go unacknowledged. Line (16) indicates the RM Destination may buffer acknowledgements for up to two-tenths of a second.

Lines (23-26) are a WSDL [[WSDL 1.1](#)] binding. Line (24) indicates that the policy in Lines (11-19) applies to this binding, specifically indicating that WS-ReliableMessaging must be used over all the messages in the binding.