

ISSUE:

Support of both wsdl 1.1 and 2.0 in CDL presents a possible incompatibility with respect to the Message Exchange Patterns (MEP) supported by each. In particular, an issue was raised concerning the deprecated Notification and Solicit-response MEPs from wsdl 1.1. What is the impact of the deprecation of these MEPs in wsdl 2.0 on CDL, given that support of wsdl 2.0 is part of the WS-Choreography?

ANALYSIS:

All wsdl 1.1 MEPs are actually subsumed by equivalents in the wsdl 2.0 specification. The wsdl 2.0 Out-Only MEP is functionally equivalent to the wsdl 1.1 Notification MEP, while the wsdl 2.0 Out-In MEP is functionally equivalent to the wsdl 1.1 Solicit-response MEP.

Below is a table providing a comparison between wsdl 1.1 and wsdl 2.0 MEPs:

| Message Exchange Patterns | WSDL 1.1 | WSDL 2.0 | Comparison |
|---------------------------|------------------|-----------------|-------------------------|
| | One-way | In-Only | Functionally equivalent |
| | Request-Response | In-Out | Functionally equivalent |
| | Notification | Out-Only | Functionally equivalent |
| | Solicit-Response | Out-In | Functionally equivalent |
| | | Robust In-Only | Introduced in 2.0 |
| | | Robust Out-Only | Introduced in 2.0 |
| | | In-Optional-Out | Introduced in 2.0 |
| | | Out-Optional-In | Introduced in 2.0 |

PROPOSAL:

Since all wsdl 1.1 MEPs are subsumed in wsdl 2.0, and wsdl 2.0 introduces MEPs in addition to those supported by wsdl 1.1, CDL should be able to support both wsdl 1.1 and wsdl 2.0 MEPs. Where wsdl 2.0 introduces MEPs in addition to those supported in wsdl 1.1, support of these in CDL should be limited to the use of wsdl 2.0.

A wsdl version element should be introduced to the CDL schema to signify whether a CDL supports wsdl 1.1 or wsdl 2.0. A CDL parser can use this element to determine for the choreography environment whether to load facilities to support wsdl 1.1 or 2.0.