Oracle® Communications
Network Charging and Control
Data Access Pack Compliance Protocol
Implementation Conformance Statement
Release 5.0.1

June 2013
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About This Document

Scope
This statement of compliance compares the Oracle DAP implementation to:

- Internet Engineering Task Force (IETF) document, RFC 2616 - Hypertext Transfer Protocol - HTTP/1.1
- Web Services Description Language (WSDL) 1.1
- JSR 181: Web Services Metadata for the JavaTM Platform
- JSR 224: JavaTM API for XML-Based Web Services (JAX-WS) 2.1

Audience
This document is intended to be read by Oracle Communications Network Charging and Control staff. It has been prepared on the assumption that the reader is familiar with DAP as well as the HTTP and SOAP protocol specifications.
# Document Conventions

## Typographical Conventions

The following terms and typographical conventions are used in the Oracle Communications Network Charging and Control (NCC) documentation.

<table>
<thead>
<tr>
<th>Formatting convention</th>
<th>Type of information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Special Bold</strong></td>
<td>Items you must select, such as names of tabs.</td>
</tr>
<tr>
<td></td>
<td>Names of database tables and fields.</td>
</tr>
<tr>
<td><strong>Italics</strong></td>
<td>Name of a document, chapter, topic or other publication.</td>
</tr>
<tr>
<td></td>
<td>Emphasis within text.</td>
</tr>
<tr>
<td><strong>Button</strong></td>
<td>The name of a button to click or a key to press.</td>
</tr>
<tr>
<td></td>
<td><strong>Example:</strong> To close the window, either click <strong>Close</strong>, or press <strong>Esc</strong>.</td>
</tr>
<tr>
<td><strong>Key+Key</strong></td>
<td>Key combinations for which the user must press and hold down one key and then press another.</td>
</tr>
<tr>
<td></td>
<td><strong>Example:</strong> <strong>Ctrl+P</strong>, or <strong>Alt+F4</strong>.</td>
</tr>
<tr>
<td><strong>Monospace</strong></td>
<td>Examples of code or standard output.</td>
</tr>
<tr>
<td><strong>Monospace Bold</strong></td>
<td>Text that you must enter.</td>
</tr>
<tr>
<td><strong>variable</strong></td>
<td>Used to indicate variables or text that should be replaced.</td>
</tr>
<tr>
<td><strong>menu option &gt; menu option &gt;</strong></td>
<td>Used to indicate the cascading menu option to be selected, or the location path of a file.</td>
</tr>
<tr>
<td></td>
<td><strong>Example:</strong> <strong>Operator Functions &gt; Report Functions</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Example:</strong> <strong>/IN/html/SMS/Helptext/</strong></td>
</tr>
<tr>
<td><strong>hypertext link</strong></td>
<td>Used to indicate a hypertext link on an HTML page.</td>
</tr>
</tbody>
</table>

Specialized terms and acronyms are defined in the **Glossary** at the end of this guide.
Overview

Introduction

This chapter describes the compliance/ non-compliance of protocols supported by DAP to various globally accepted compliance documents.

In this chapter

This chapter contains the following topics.

HTTP Compliance 7
SOAP Compliance 13
EJB JEE Compliance 16
WSDL Compliance 29

HTTP Compliance

Description

This section demonstrates the compliance/ non-compliance of the HTTP protocol support in DAP to the compliance statement for RFC 2616.

3.2.3 URI Comparison
Compliant: No

Note: DAP does not differentiate based on request URL, only on the correlation id.

3.1 HTTP Version
Compliant: No

Note: DAP only accepts HTTP/1.1 requests.

3.3 Date/Time Formats
Compliant: No

Note: DAP does not support sending timestamps in these formats.

3.4 Character Sets
Compliant: No

Note: DAP only support ASCII, although DAP advertises UTF-8.

3.5 Content Codings
Compliant: No

Note: DAP does not support any content codings.

3.6 Transfer Codings
Compliant: No
Note: DAP will only send non-chunked requests, but does handle chunked responses. DAP does not handle chunked requests.

3.7 Media Types
Compliant: Yes

Note: DAP produces content of type text/html and text/xml. It does not verify the content-type of responses, but assumes text/xml or text/html.

4.1 HTTP Message Types
Compliant: Yes

Note: DAP ignores leading CRLF’s on new connections.

4.2 HTTP Message Headers
Compliant: Yes

5.1.1 Request-Line Method
Compliant: Yes

Note: DAP ignores URI and Method in asynchronous responses.

5.2 Resource identified by a request
Compliant: No

Note: DAP ignores the Request-URI.

6.1.1 Status code and reason phrase
Compliant: No

Note: DAP only accepts 200 OK as success.

8.1 Persistent Connections
Compliant: No

Note: DAP does not maintain a persistent connection if it is the server.

8.1.2.1 Overall Operation - Negotiation
Compliant: No

Note: DAP does not honour the “close” request, assuming that the client connections it initiates are persistent.

8.2.3 Use of the 100 (Continue) Status
Compliant: No

Note: DAP does not handle request headers.

9.2 OPTIONS
Compliant: No

Note: OPTIONS is not supported.

9.3 GET
Compliant: Yes

Note: DAP does not differentiate between request methods, so GET/POST/PUT, etc are supported.

9.4 HEAD
Compliant: No

Note: DAP does not properly process HEAD.
<table>
<thead>
<tr>
<th>Section</th>
<th>Method</th>
<th>Compliance</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.5</td>
<td>POST</td>
<td>Yes</td>
<td>DAP does not support TRACE</td>
</tr>
<tr>
<td>9.6</td>
<td>PUT</td>
<td>No</td>
<td>DAP does not support TRACE</td>
</tr>
<tr>
<td>9.9</td>
<td>CONNECT</td>
<td>No</td>
<td>DAP does not support CONNECT</td>
</tr>
<tr>
<td>10.1</td>
<td>Informational 1xx</td>
<td>No</td>
<td>DAP only accepts 200/OK</td>
</tr>
<tr>
<td>10.2</td>
<td>Successful 2xx</td>
<td>No</td>
<td>DAP only accepts 200/OK</td>
</tr>
<tr>
<td>10.3</td>
<td>Redirection 3xx</td>
<td>No</td>
<td>DAP does not accept re-direction</td>
</tr>
<tr>
<td>10.4</td>
<td>Client Error 4xx</td>
<td>Yes</td>
<td>DAP treats all non-200/OK status as errors</td>
</tr>
<tr>
<td>10.4.2</td>
<td>401 Unauthorized</td>
<td>No</td>
<td>DAP does not support HTTP Authentication</td>
</tr>
<tr>
<td>10.5</td>
<td>Server Error 5xx</td>
<td>Yes</td>
<td>DAP treats all non-200/OK status as errors</td>
</tr>
<tr>
<td>11</td>
<td>Access Authentication</td>
<td>No</td>
<td>DAP does not support HTTP Authentication</td>
</tr>
<tr>
<td>12</td>
<td>Content Negotiation</td>
<td>No</td>
<td>DAP does not support negotiation</td>
</tr>
<tr>
<td>13</td>
<td>Caching in HTTP</td>
<td>NA</td>
<td>DAP attempts to force all responses to be uncached</td>
</tr>
<tr>
<td>14.5</td>
<td>Accept-Ranges</td>
<td>No</td>
<td>DAP does not produce nor accept Accept headers</td>
</tr>
<tr>
<td>Section</td>
<td>Compliant</td>
<td>Note</td>
<td></td>
</tr>
<tr>
<td>---------</td>
<td>-----------</td>
<td>------</td>
<td></td>
</tr>
<tr>
<td>14.6 Age</td>
<td>NA</td>
<td>DAP assumes no caching.</td>
<td></td>
</tr>
<tr>
<td>14.7 Allow</td>
<td>Yes</td>
<td>DAP treats all non 200/OK status as errors.</td>
<td></td>
</tr>
<tr>
<td>14.8 Authorization</td>
<td>No</td>
<td>DAP does not support HTTP Authentication.</td>
<td></td>
</tr>
<tr>
<td>14.9 Cache-Control</td>
<td>Yes</td>
<td>DAP attempts to force non-caching of responses.</td>
<td></td>
</tr>
<tr>
<td>14.10 Connection</td>
<td>No</td>
<td>DAP does not support the Connection header.</td>
<td></td>
</tr>
<tr>
<td>14.11 Content-Encoding</td>
<td>No</td>
<td>DAP does not support Content-Encoding.</td>
<td></td>
</tr>
<tr>
<td>14.12 Content-Language</td>
<td>No</td>
<td>DAP does not support Content-Language.</td>
<td></td>
</tr>
<tr>
<td>14.13 Content-Length</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14.14 Content-Location</td>
<td>No</td>
<td>DAP does not differentiate on URI.</td>
<td></td>
</tr>
<tr>
<td>14.15 Content-MD5</td>
<td>No</td>
<td>DAP does not process Content-MD5.</td>
<td></td>
</tr>
<tr>
<td>14.16 Content-Range</td>
<td>No</td>
<td>DAP does not support Content-Range.</td>
<td></td>
</tr>
<tr>
<td>14.17 Content-Type</td>
<td>Yes</td>
<td>DAP only supports text/xml, text/html and UTF-8 encoding, when UTF-8 is limited to the ASCII subset.</td>
<td></td>
</tr>
<tr>
<td>14.18 Date</td>
<td>No</td>
<td>DAP does not produce a Date header.</td>
<td></td>
</tr>
</tbody>
</table>
14.19 ETag
Compliant: No

Note: DAP does not provide an ETag.

14.20 Expect
Compliant: No

Note: DAP does not support Expect or 100 continue.

14.21 Expires
Compliant: No

Note: DAP assumes that caching is not present.

14.22 From
Compliant: Yes

Note: DAP does not send, nor process the From field.

14.23 Host
Compliant: Yes

Note: DAP populates the Host field.

14.24 If-Match
Compliant: No

Note: DAP does not set, nor honour the If-Match field.

14.25 If-Modified-Since
Compliant: No

Note: DAP does not set, nor honour the If-Modified-Since field.

14.26 If-None-Match
Compliant: No

Note: DAP does not set, nor honour the If-None-Match field.

14.27 If-Range
Compliant: No

Note: DAP does not set, nor honour the If-Range field.

14.28 If-Unmodified-Since
Compliant: No

Note: DAP does not set, nor honour the If-Unmodified-Since field.

14.29 Last-Modified
Compliant: No

Note: DAP does not set, nor honour the Last-Modified field.

14.30 Location
Compliant: No

Note: DAP does not set, nor honour the Location field. All HTTP status other than 200/OK are treated as errors.
14.31 Max-Forwards
Compliant: No

Note: DAP does not set, nor honour the Max-Forwards field.

14.32 Pragma
Compliant: No

Note: DAP does not set, nor honour the Pragma field.

14.33 Proxy-Authenticate
Compliant: No

Note: DAP does not set, nor honour the Proxy-Authenticate field.

14.34 Proxy-Authorization
Compliant: No

Note: DAP does not set, nor honour the Proxy-Authorization field.

14.35 Range
Compliant: No

Note: DAP does not support byte ranges.

14.36 Referer
Compliant: No

Note: DAP does not set, nor read the Referer field.

14.37 Retry-After
Compliant: No

Note: DAP does not set, nor honour the Retry-After field.

14.38 Server
Compliant: Yes

Note: DAP does set the Server field.

14.39 TE
Compliant: No

Note: DAP does not set, nor honour the TE field.

14.40 Trailer
Compliant: No

Note: DAP does not support non-empty Trailers, so it does not set the Trailer field.

14.41 Transfer-Encoding
Compliant: Yes

Note: DAP does support Transfer-Encoding of chunked.

14.42 Upgrade
Compliant: No

Note: DAP does not support set, nor honour the Upgrade field.

14.43 User-Agent
Compliant: Yes

Note: DAP sets the User-Agent field.
14.44 Vary  
Compliant: No  
**Note:** DAP does not set, nor honour the *Vary* field.

14.45 Via  
Compliant: No  
**Note:** DAP does not set, nor honour the *Via* field.

14.46 Warning  
Compliant: No  
**Note:** DAP does not set, nor honour the *Warning* field.

14.47 WWW-Authenticate  
Compliant: No  
**Note:** DAP does not perform HTTP Authentication.

## SOAP Compliance

**Description**

This section demonstrates the compliance/ non-compliance of the SOAP protocol support in DAP to the Web Services Description Language (WSDL) 1.1.

**Section 2.1**  
Compliant: Partial

**Section 2.2**  
Compliant: Yes

**Section 2.3**  
Compliant: Partial  
**Note:** OSD does not place any meaning on actor attributes in responses, nor does it provide a way to populate them.

**Section 2.4**  
Compliant: No  
**Note:** OSD does not process or place any meaning on SOAP headers.

**Section 2.5**  
Compliant: No  
**Note:** OSD does not process or place any meaning on SOAP headers, particularly *mustUnderstand*.

**Section 3**  
Compliant: No  
**Note:** OSD does not process or validate namespace identifiers.

**Section 4**  
Compliant: Yes

**Section 4.1.1**  
Compliant: Partial
### Chapter 1

**Note:** SOAP encoding style support is incomplete. Support for HREF references is not supported.

<table>
<thead>
<tr>
<th>Section 4.1.2</th>
<th>Compliant: No</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Note:</strong> OSD does not validate SOAP headers.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Section 4.2</th>
<th>Compliant: Partial</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Note:</strong> OSD does not place any meaning on actor attributes in responses, nor does it provide a way to populate them. OSD does not process or place any meaning on SOAP headers, particularly <code>mustUnderstand</code>.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Section 4.2.1</th>
<th>Compliant: No</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Note:</strong> OSD does not ignore invalid SOAP Header attributes.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Section 4.2.2</th>
<th>Compliant: NA</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Note:</strong> OSD does not proxy requests, so this section does not apply.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Section 4.2.3</th>
<th>Compliant: No</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Note:</strong> OSD does not honour the <code>mustUnderstand</code> attribute.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Section 4.3</th>
<th>Compliant: No</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Note:</strong> OSD does not provide a namespace for the body block.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Section 4.3.1</th>
<th>Compliant: Yes</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Section 4.4</th>
<th>Compliant: No</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Note:</strong> OSD is unable to generate Fault blocks, although it is able to process them.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Section 4.4.1</th>
<th>Compliant: Partial</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Note:</strong> OSD is unable to generate Fault blocks.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Section 4.4.2</th>
<th>Compliant: No</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Note:</strong> OSD is unable to process or generate header faults.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Section 5</th>
<th>Compliant: Partial</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Note:</strong> OSD is unable to process type information in responses.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Section 5.1</th>
<th>Compliant: Partial</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Note:</strong> OSD is unable to process references (href) in responses.</td>
<td></td>
</tr>
</tbody>
</table>

14  NCC Data Access Pack Compliance Protocol Implementation Conformance Statement
Section 5.2
Compliant: Partial

Note: OSD is unable to process type information in responses.

Section 5.2.1
Compliant: Partial

Note: OSD does not support the id or href attributes in requests or responses.

Section 5.2.2
Compliant: Yes

Section 5.2.3
Compliant: Yes

Note: Binary encodings are supported subject to parameter size restrictions and type conversion requirements.

Section 5.3
Compliant: No

Note: OSD is unable to process type information in responses.

Section 5.4
Compliant: Yes

Section 5.4.1
Compliant: Partial

Note: OSD is unable to process references to values.

Section 5.4.2
Compliant: Partial

Notes:
- OSD does not process encodings.
- All repeated elements are treated as arrays.
- Multi-dimensional arrays are not supported.

Section 5.4.2.1
Compliant: No

Note: Partially transmitted arrays are not supported. OSD will treat them as all other repeated elements.

Section 5.4.2.2
Compliant: No

Note: Sparse arrays are not supported. OSD will treat them as all other repeated elements.

Section 5.4.3
Compliant: Yes

Section 5.5
Compliant: Yes

Section 5.6
Compliant: No
Chapter 1

Note: OSD does not support roots other than the true root of the graph.

Section 6
Compliant: Yes

Section 6.1.1
Compliant: Yes

Section 6.2
Compliant: No

Note: OSD does not generate SOAP fault elements, nor does it generate 500 Internal Server Errors.

Section 6.3
Compliant: No

Note: We don't support HTTP extensions.

Section 7.1
Compliant: Partial

Note: OSD is able to process SOAP faults, but it is not able to generate them.

Section 7.2
Compliant: No

Note: The example has the transaction ID being passed as part of the SOAP header element. DAP does not support placing fields into the SOAP header.

EJB JEE Compliance

JSR 181

This section demonstrates the compliance/ non-compliance of the subset of EJB standards that are supported by DAP to the compliance statement for JSR 181: Web Services Metadata for the JavaTM Platform.

Section 4.1.1
Compliant: Partial

Note: javax.jws.WebService.targetNamespace is not supported if it results in namespace prefixes on elements.

Section 4.2
Compliant: Yes

Section 4.3
Compliant: Yes

Section 4.4
Compliant: Partial

Notes:

- javax.jws.WebParam.targetNamespace is not supported if it results in namespace prefixes on elements.
- javax.jws.WebParam.header=true is not supported.
### Section 4.5
**Compliant:** Partial

**Notes:**
- `javax.jws.WebParam.targetNamespace` is not supported if it results in namespace prefixes on elements.
- `javax.jws.WebParam.header=true` is not supported.

### Section 4.6
**Compliant:** Yes

**Note:** Does not affect the generated WSDL file.

### Section 4.7
**Compliant:** Yes

**Note:** `javax.jws.soap.SOAPBinding` is a required annotation.

### Section 4.8
**Compliant:** Yes

**Note:** Ignored in the standard.

### Section 5
**Compliant:** Partial

**Note:** JAXB or SDO is not supported, only SOAP bindings are supported.

### Section 6.1
**Compliant:** Yes

### Section 6.2
**Compliant:** No

**Note:** `@WebParam.header` is not supported.

#### JSR 224

This section demonstrates the compliance/non-compliance of the subset of EJB standards that are supported by DAP to the compliance statement for JSR 224: JavaTM API for XML-Based Web Services (JAX-WS) 2.1.

**2.1 WSDL 1.1 support**
**Compliant:** Yes

**2.2 Customization required**
**Compliant:** NA

**2.3 Annotations on generated classes**
**Compliant:** NA

**2.4 Definitions mapping**
**Compliant:** NA

**2.5 WSDL and XML Schema import directives**
**Compliant:** Partial
Note: References WS-I Basic Profile 1.1, which is not reviewed. OSD supports schema import directives.

2.6 Optional WSDL extensions
Compliant: NA

2.7 SEI naming
Compliant: NA

2.8 javax.jws.WebService required
Compliant: NA

2.9 javax.xml.bind.XmlSeeAlso required
Compliant: NA

2.10 Method naming
Compliant: NA

2.11 javax.jws.WebMethod required
Compliant: NA

2.12 Transmission primitive support
Compliant: NA

2.13 Using javax.jws.OneWay
Compliant: NA

2.14 Using javax.jws.SOAPBinding
Compliant: NA

2.15 Using javax.jws.WebParam
Compliant: NA

2.16 Using javax.jws.WebResult
Compliant: NA

2.17 use of JAXB annotations
Compliant: NA

2.18 Non-wrapped parameter naming
Compliant: NA

2.19 Default mapping mode
Compliant: NA

2.20 Disabling wrapper style
Compliant: NA

2.21 Wrapped parameter naming
Compliant: NA

2.22 Parameter name clash
Compliant: NA

2.23 Using javax.xml.ws.RequestWrapper
Compliant: NA
2.24 Using javax.xml.ws.ResponseWrapper
Compliant: NA

2.25 Use of Holder
Compliant: NA

2.26 Asynchronous mapping required
Compliant: No
Note: Asynchronous EJB responses are not supported using this version of OSD.

2.27 Asynchronous mapping option
Compliant: No
Note: Asynchronous EJB responses are not supported using this version of OSD.

2.28 Asynchronous method naming
Compliant: No
Note: Asynchronous EJB responses are not supported using this version of OSD.

2.29 Asynchronous parameter naming
Compliant: No
Note: Asynchronous EJB responses are not supported using this version of OSD.

2.30 Failed method invocation
Compliant: No
Note: Asynchronous EJB responses are not supported using this version of OSD.

2.31 Response bean naming
Compliant: No
Note: Asynchronous EJB responses are not supported using this version of OSD.

2.32 Asynchronous fault reporting
Compliant: No
Note: Asynchronous EJB responses are not supported using this version of OSD.

2.33 Asynchronous fault cause
Compliant: No
Note: Asynchronous EJB responses are not supported using this version of OSD.

2.34 JAXB class mapping
Compliant: NA

2.35 JAXB customization use
Compliant: NA

2.36 JAXB customization clash
Compliant: NA

2.37 javax.xml.ws.wsaddressing.W3CEndpointReference
Compliant: NA

2.38 javax.xml.ws.WebFault required
Compliant: NA
2.39 Exception naming
Compliant: NA

2.40 Fault equivalence
Compliant: NA

2.41 Fault equivalence
Compliant: NA

2.42 Required WSDL extensions
Compliant: NA

2.43 Unbound message parts
Compliant: NA

2.44 Duplicate headers in binding
Compliant: NA

2.45 Duplicate headers in message
Compliant: NA

2.46 Use of MIME type information
Compliant: NA

2.47 MIME type mismatch
Compliant: NA

2.48 MIME part identification
Compliant: NA

2.49 Service superclass required
Compliant: NA

2.50 Service class naming
Compliant: NA

2.51 javax.xml.ws.WebServiceClient required
Compliant: NA

2.52
Compliant: NA

2.53
Compliant: NA

2.54 Failed getPort Method
Compliant: NA

2.55 javax.xml.ws.WebEndpoint required
Compliant: NA

3.1 WSDL 1.1 support
Compliant: Yes

3.2 Standard annotations
Compliant: Partial

Note: Not all annotations are supported. See section 7 for details.
3.3 Java identifier mapping
Compliant: Yes

3.4 Method name disambiguation
Compliant: Yes

3.5 Package name mapping
Compliant: Partial

Note: Namespaces which modify the prefixes on response messages are not supported.

3.6 WSDL and XML Schema import directives
Compliant: Yes

3.7 Class mapping
Compliant: Yes

3.8 portType naming
Compliant: Yes

3.9 Inheritance flattening
Compliant: Yes

3.10 Inherited interface mapping
Compliant: Yes

3.11 Operation naming
Compliant: Yes

3.12 One-way mapping
Compliant: Yes

3.13 One-way mapping errors
Compliant: Yes

3.14 use of JAXB annotations
Compliant: Partial

3.15 Parameter classification
Compliant: Yes

3.16 Parameter naming
Compliant: Yes

3.17 Result naming
Compliant: Yes

3.18 Header mapping of parameters and results
Compliant: No

Note: javax.jws.WebParam.header=true and javax.jws.WebResult.header=true are not supported.

3.19 Default wrapper bean names
Compliant: Yes

3.20 Default wrapper bean package
Compliant: Yes
3.21 Wrapper element names
Compliant: Yes

3.22 Wrapper bean name clash
Compliant: Yes

3.23 Null Values in rpc/literal
Compliant: Partial

Note: OSD does not generate exceptions for NULL values when it receives them in asynchronous responses.

3.24 Exception naming
Compliant: Yes

3.25 java.lang.RuntimeExceptions and java.rmi.RemoteExceptions
Compliant: Yes

3.26 Fault bean name clash
Compliant: Yes

3.27 Binding selection
Compliant: Partial

Note: Only SOAP1.1/HTTP binding is supported.

3.28 SOAP binding support
Compliant: Yes

3.29 SOAP binding style required
Compliant: Yes

3.30 Service creation
Compliant: Yes

3.31 Port selection
Compliant: Yes

3.32 Port binding
Compliant: Yes

4.1 Service completeness
Compliant: NA

4.2 Service Creation Failure
Compliant: NA

4.3 Use of Executor
Compliant: NA

4.4 Default Executor
Compliant: NA

4.5 javax.xml.ws.BindingProvider.getEndpointReference
Compliant: NA

4.6 Message context decoupling
Compliant: NA
4.7 Required BindingProvider properties
Compliant: NA

4.8 Optional BindingProvider properties
Compliant: NA

4.9 Additional context properties
Compliant: NA

4.10 Asynchronous response context
Compliant: No

Note: Asynchronous EJB responses are not supported using this version of OSD.

4.11 Proxy support
Compliant: NA

4.12 Implementing BindingProvider
Compliant: NA

4.13 Service.getPort failure
Compliant: NA

4.14 Remote Exceptions
Compliant: NA

4.15 Exceptions During Handler Processing
Compliant: NA

4.16 Other Exceptions
Compliant: NA

4.17 Dispatch support
Compliant: NA

4.18 Failed Dispatch.invoke
Compliant: NA

4.19 Failed Dispatch.invokeAsync
Compliant: NA

4.20 Failed Dispatch.invokeOneWay
Compliant: NA

4.21 Reporting asynchronous errors
Compliant: No

Note: Asynchronous EJB responses are not supported using this version of OSD.

4.22 Marshalling failure
Compliant: NA

4.23 Use of the Catalog
Compliant: No

Note: The delivery of WSDL files as jar files is not supported.
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5.1 Provider support required
Compliant: NA

5.2 Provider default constructor
Compliant: NA

5.3 Provider implementation
Compliant: NA

5.4 WebServiceProvider annotation
Compliant: NA

5.5 Endpoint publish(String address, Object implementor) Method
Compliant: NA

5.6 Default Endpoint Binding
Compliant: NA

5.7 Other Bindings
Compliant: NA

5.8 Publishing over HTTP
Compliant: NA

5.9 WSDL Publishing
Compliant: NA

5.10 Checking publishEndpoint Permission
Compliant: NA

5.11 Required Metadata Types
Compliant: NA

5.12 Unknown Metadata
Compliant: NA

5.13 Use of Executor
Compliant: NA

5.14 Default Executor
Compliant: NA

6.1 Read-only handler chains
Compliant: NA

6.2 Concrete javax.xml.ws.spi.Provider required
Compliant: NA

6.3 Provider createAndPublishEndpoint Method
Compliant: NA

6.4 Concrete javax.xml.ws.spi.ServiceDelegate required
Compliant: NA

6.5 Protocol specific fault generation
Compliant: NA
6.6 Protocol specific fault consumption
Compliant: NA

6.7 One-way operations
Compliant: NA

6.8 javax.xml.ws.WebServiceFeatures
Compliant: NA

6.9 enabled property
Compliant: NA

6.10 javax.xml.ws.soap.MTOMFeature
Compliant: NA

6.11 javax.xml.ws.RespectBindingFeature
Compliant: NA

7.1 Correctness of annotations
Compliant: NA

7.2 Handling incorrect annotations
Compliant: NA

7.3 Unsupported WebServiceFeatureAnnotation
Compliant: NA

javax.xml.ws.ServiceMode
Compliant: Yes

javax.xml.ws.WebFault
Compliant: Yes

javax.xml.ws.RequestWrapper
Compliant: Yes

javax.xml.ws.ResponseWrapper
Compliant: Yes

javax.xml.ws.WebServiceProvider
Compliant: Yes

7.4 WebServiceProvider and WebService
Compliant: Yes

javax.xml.ws.BindingType
Compliant: Partial

Note: Only the default binding method (SOAP1.1/HTTP) is supported by OSD.

javax.xml.ws.WebServiceRef
Compliant: Yes

javax.xml.ws.WebServiceRefs
Compliant: Yes
7.5 JSR-181 conformance
Compliant: Partial

Note: See JSR-181 compliance statement above.

javax.xml.ws.Action
Compliant: Partial

Note: Since the translation is not standardised, it is not possible to determine compliance.

javax.xml.ws.FaultAction
Compliant: Partial

Note: Since the translation is not standardised, it is not possible to determine compliance.

javax.xml.spi.WebServiceFeatureAnnotation
Compliant: Partial

Note: See the next 3 annotations for details.

javax.xml.ws.soap.Addressing
Compliant: Partial

Note: Since the translation is not standardised, it is not possible to determine compliance.

javax.xml.ws.soap.MTOM
Compliant: No

Note: MTOM encoding is not supported.

javax.xml.ws.RespectBinding
Compliant: Partial

Note: Only SOAP1.1/HTTP binding is supported, with no binary encodings.

8.1 Standard binding declarations
Compliant: NA

8.2 Binding language extensibility
Compliant: NA

8.3 Multiple binding files
Compliant: NA

9.1 Handler framework support
Compliant: NA

9.2 Logical handler support
Compliant: NA

9.3 Other handler support
Compliant: NA

9.4 Incompatible handlers
Compliant: NA

9.5 Incompatible handlers
Compliant: NA

9.6 Handler chain snapshot
Compliant: NA
9.7 HandlerChain annotation
Compliant: NA

9.8 Handler resolver for a HandlerChain annotation
Compliant: NA

9.9 Binding handler manipulation
Compliant: NA

9.10 Handler initialization
Compliant: NA

9.11 Handler destruction
Compliant: NA

9.12 Invoking close
Compliant: NA

9.13 Order of close invocations
Compliant: NA

9.14 Message context property scope
Compliant: NA

10.1 SOAP required roles
Compliant: Yes

10.2 SOAP required roles
Compliant: Yes

10.3 Default role visibility
Compliant: NA

10.4 Default role persistence
Compliant: NA

10.5 None role error
Compliant: NA

10.6 Incompatible handlers
Compliant: NA

10.7 Incompatible handlers
Compliant: NA

10.8 Logical handler access
Compliant: NA

10.9 SOAP 1.1 HTTP Binding Support
Compliant: Partial

Note: OSD does not support the use of mime attachments with the SOAP binding.

10.10 SOAP 1.2 HTTP Binding Support
Compliant: Partial

Note: OSD does not support the use of mime attachments with the SOAP binding.
10.11 SOAP MTOM Support
Compliant: No
Note: OSD does not support MTOM.

10.12 Semantics of MTOM enabled
Compliant: Yes
Note: OSD does not support MTOM, however this indicates that MTOM support from the client is optional.

10.13 MTOM support
Compliant: NA

10.14 SOAP bindings with MTOM disabled
Compliant: Yes

10.15 SOAP bindings with MTOM enabled
Compliant: Yes

10.16 MTOM on Other SOAP Bindings
Compliant: NA

10.17 One-way operations
Compliant: Yes

10.18 HTTP basic authentication support
Compliant: No
Note: OSD does not support HTTP basic authentication.

10.19 Authentication properties
Compliant: NA

10.20 URL rewriting support
Compliant: No
Note: OSD does not support URL rewriting for session management.

10.21 Cookie support
Compliant: No
Note: OSD does not support cookies for session management.

10.22 SSL session support
Compliant: No
Note: OSD does not support SSL for session management.

10.23 SOAP Addressing Support
Compliant: No
Note: OSD does not support WS-Addressing.

11.1 XML/HTTP Binding Support
Compliant: No
Note: OSD only supports SOAP 1.1/HTTP binding.

11.2 Incompatible handlers
Compliant: No
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<tr>
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<th>Compliance</th>
</tr>
</thead>
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<td>No</td>
</tr>
<tr>
<td>Note: OSD only supports SOAP 1.1/HTTP binding.</td>
<td></td>
</tr>
<tr>
<td>11.4 Logical handler access</td>
<td>No</td>
</tr>
<tr>
<td>Note: OSD only supports SOAP 1.1/HTTP binding.</td>
<td></td>
</tr>
<tr>
<td>11.5 One-way operations</td>
<td>No</td>
</tr>
<tr>
<td>Note: OSD only supports SOAP 1.1/HTTP binding.</td>
<td></td>
</tr>
<tr>
<td>11.6 HTTP basic authentication support</td>
<td>No</td>
</tr>
<tr>
<td>Note: OSD only supports SOAP 1.1/HTTP binding.</td>
<td></td>
</tr>
<tr>
<td>11.7 Authentication properties</td>
<td>No</td>
</tr>
<tr>
<td>Note: OSD only supports SOAP 1.1/HTTP binding.</td>
<td></td>
</tr>
<tr>
<td>11.8 URL rewriting support</td>
<td>No</td>
</tr>
<tr>
<td>Note: OSD only supports SOAP 1.1/HTTP binding.</td>
<td></td>
</tr>
<tr>
<td>11.9 Cookie support</td>
<td>No</td>
</tr>
<tr>
<td>Note: OSD only supports SOAP 1.1/HTTP binding.</td>
<td></td>
</tr>
<tr>
<td>11.10 SSL session support</td>
<td>No</td>
</tr>
<tr>
<td>Note: OSD only supports SOAP 1.1/HTTP binding.</td>
<td></td>
</tr>
</tbody>
</table>

### WSDL Compliance

**Description**

This section demonstrates the compliance/ non-compliance of the WSDL 1.1 support in DAP to the Web Services Description Language (WSDL) 1.1.

2.1.2 Authoring Style
Compliant: Yes

2.1.3 Language Extensibility and Binding
Compliant: No
Note: OSD will not support extensions.

2.1.4 Documentation
Compliant: Yes
Chapter 1

2.2 Types
Compliant: Partial

Note: OSD will not support extensions to the type system. Only XSD will be supported.

2.3 Messages
Compliant: Yes

2.3.1 Message Parts
Compliant: Yes

Note: The schema driven format is preferred.

2.4 Port Types
Compliant: Partial

Note: One-Way and Request-response are the only supported transmission primitives.

2.4.1 One-way Operation
Compliant: Yes

2.4.2 Request-response Operation
Compliant: Yes

2.4.3 Solicit-response Operation
Compliant: No

2.4.4 Notification Operation
Compliant: No

2.4.5 Names of Elements within an Operation
Compliant: Yes

2.4.6 Parameter Order within an Operation
Compliant: No

Note: RPC parameterOrder parameter is not used by OSD.

2.5 Bindings
Compliant: Yes

2.6 Ports
Compliant: Yes

2.7 Services
Compliant: Yes

3 SOAP Binding
Compliant: Yes

3.2 How the SOAP Binding Extends WSDL
Compliant: Partial

Note: soap:header and soap:headerfault are not supported.

3.3 soap:binding
Compliant: Yes

3.4 soap:operation
Compliant: Yes
3.5 soap:body
Compliant: Yes

3.6 soap:fault
Compliant: Yes

3.7 soap:header and soap:headerfault
Compliant: No

Note: soap:header and soap:headerfault are not supported.

3.8 soap:address
Compliant: Yes

4 HTTP GET & POST Binding
Compliant: No

Note: Only SOAP binding is supported.

5 MIME Binding
Compliant: No

Note: Only SOAP binding is supported.
NCC Glossary of Terms

ACS
Advanced Control Services configuration platform.

API
Application Programming Interface

Connection
Transport level link between two peers, providing for multiple sessions.

DAP
Data Access Pack. An extension module for ACS which allows control plans to make asynchronous requests to external systems over various protocols including XML and LDAP.

HTML
HyperText Markup Language, a small application of SGML used on the World Wide Web.
It defines a very simple class of report-style documents, with section headings, paragraphs, lists, tables, and illustrations, with a few informational and presentational items, and some hypertext and multimedia.

HTTP
Hypertext Transport Protocol is the standard protocol for the carriage of data around the Internet.

Oracle
Oracle Corporation

SGML

SOAP

URI
Uniform Resource Identifier.

URL
Uniform Resource Locator. A standard way of specifying the location of an object, typically a web page, on the Internet.

WSDL
Web Services Description Language.
XML

eXtensible Markup Language. It is designed to improve the functionality of the Web by providing more flexible and adaptable information identification.

It is called extensible because it is not a fixed format like HTML. XML is a ‘metalanguage’ — a language for describing other languages—which lets you design your own customized markup languages for limitless different types of documents. XML can do this because it's written in SGML.
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