

**Source:** CN5 (OSA)  
**Title:** 27 Rel-5/6 CR 29.198-xy Removal of OSA API SCFs description in W3C WSDL  
**Agenda item:** 8.2 (OSA Enhancements [OSA2])  
**Document for:** APPROVAL

Web Services (WS) has emerged as a broadly requested technology realization within the telecom community. CN5 applied WS as follows:

1. WSDL realisation of the OSA 29.198-x (developed three years ago),
2. 3GPP TS 29.199-x, also known as Parlay X Web Services, is realised in WSDL.

During CN5#28 (Aug 2004), it was established that the WSDL realisation of the OSA 29.198-x was outdated. No contributions to address this were received during CN5#29 (Nov 2004).

By consensus, CN5 has agreed to remove the OSA WSDL from 29.198-x and is submitting the following CRs:

Doc-1st-Level	Spec	CR	Rev	Phase	Subject	Cat	Vers	Doc	WI
NP-040485	29.198-01	039	--	Rel-5	Removal of OSA API SCFs description in W3C WSDL	F	5.7.0	N5-040831	OSA2
NP-040485	29.198-01	040	--	Rel-6	Removal of OSA API SCFs description in W3C WSDL	A	6.2.0	N5-040844	OSA2
NP-040485	29.198-02	049	--	Rel-5	Removal of OSA API SCFs description in W3C WSDL	F	5.8.0	N5-040832	OSA2
NP-040485	29.198-02	050	--	Rel-6	Removal of OSA API SCFs description in W3C WSDL	A	6.2.0	N5-040845	OSA2
NP-040485	29.198-03	127	--	Rel-5	Removal of OSA API SCFs description in W3C WSDL	F	5.8.0	N5-040833	OSA2
NP-040485	29.198-03	128	--	Rel-6	Removal of OSA API SCFs description in W3C WSDL	A	6.2.0	N5-040846	OSA2
NP-040485	29.198-04-1	015	--	Rel-5	Removal of OSA API SCFs description in W3C WSDL	F	5.7.0	N5-040834	OSA2
NP-040485	29.198-04-1	016	--	Rel-6	Removal of OSA API SCFs description in W3C WSDL	A	6.3.0	N5-040847	OSA2
NP-040485	29.198-04-2	028	--	Rel-5	Removal of OSA API SCFs description in W3C WSDL	F	5.8.0	N5-040835	OSA2
NP-040485	29.198-04-2	029	--	Rel-6	Removal of OSA API SCFs description in W3C WSDL	A	6.2.0	N5-040848	OSA2
NP-040485	29.198-04-3	034	--	Rel-5	Removal of OSA API SCFs description in W3C WSDL	F	5.8.0	N5-040836	OSA2
NP-040485	29.198-04-3	035	--	Rel-6	Removal of OSA API SCFs description in W3C WSDL	A	6.3.0	N5-040849	OSA2
NP-040485	29.198-04-4	022	--	Rel-5	Removal of OSA API SCFs description in W3C WSDL	F	5.8.0	N5-040837	OSA2
NP-040485	29.198-04-4	023	--	Rel-6	Removal of OSA API SCFs description in W3C WSDL	A	6.3.0	N5-040850	OSA2
NP-040485	29.198-05	062	--	Rel-5	Removal of OSA API SCFs description in W3C WSDL	F	5.8.0	N5-040838	OSA2
NP-040485	29.198-05	063	--	Rel-6	Removal of OSA API SCFs description in W3C WSDL	A	6.2.0	N5-040851	OSA2
NP-040485	29.198-06	052	--	Rel-5	Removal of OSA API SCFs description in W3C WSDL	F	5.6.0	N5-040839	OSA2
NP-040485	29.198-06	053	--	Rel-6	Removal of OSA API SCFs description in W3C WSDL	A	6.3.0	N5-040852	OSA2
NP-040485	29.198-07	032	--	Rel-5	Removal of OSA API SCFs description in W3C WSDL	F	5.7.0	N5-040840	OSA2
NP-040485	29.198-07	033	--	Rel-6	Removal of OSA API SCFs description in W3C WSDL	A	6.2.0	N5-040853	OSA2
NP-040485	29.198-08	038	--	Rel-5	Removal of OSA API SCFs description in W3C WSDL	F	5.7.0	N5-040841	OSA2
NP-040485	29.198-08	039	--	Rel-6	Removal of OSA API SCFs description in W3C WSDL	A	6.2.0	N5-040854	OSA2
NP-040485	29.198-11	033	--	Rel-5	Removal of OSA API SCFs description in W3C WSDL	F	5.6.0	N5-040842	OSA2
NP-040485	29.198-11	034	--	Rel-6	Removal of OSA API SCFs description in W3C WSDL	A	6.2.0	N5-040855	OSA2
NP-040485	29.198-12	034	--	Rel-5	Removal of OSA API SCFs description in W3C WSDL	F	5.7.0	N5-040843	OSA2
NP-040485	29.198-12	035	--	Rel-6	Removal of OSA API SCFs description in W3C WSDL	A	6.2.0	N5-040856	OSA2
NP-040485	29.198-15	001	--	Rel-6	Removal of OSA API SCFs description in W3C WSDL	F	6.0.0	N5-040857	OSA3

## CHANGE REQUEST

⌘ **29.198-01 CR 039** ⌘ rev **-** ⌘ Current version: **5.7.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Removal of OSA API SCFs description in W3C WSDL		
<b>Source:</b>	⌘ CN5 IBM (Joe McIntyre)		
<b>Work item code:</b>	⌘ OSA2	<b>Date:</b>	⌘ 18/11/2004
<b>Category:</b>	⌘ <b>F</b>	<b>Release:</b>	⌘ REL-5
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: <b>2</b> (GSM Phase 2) <b>R96</b> (Release 1996) <b>R97</b> (Release 1997) <b>R98</b> (Release 1998) <b>R99</b> (Release 1999) <b>Rel-4</b> (Release 4) <b>Rel-5</b> (Release 5) <b>Rel-6</b> (Release 6)

<b>Reason for change:</b>	⌘ OSA WSDL Realization is removed, as the realization is outdated and no suitable replacement is currently available.
<b>Summary of change:</b>	⌘ OSA WSDL Realization is removed, and references to WSDL in other document sections.
<b>Consequences if not approved:</b>	⌘ Outdated OSA WSDL Realization will remain in specifications.

<b>Clauses affected:</b>	⌘ 5, 7.9, Annex B										
<b>Other specs affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> </table> Other core specifications      ⌘ Test specifications O&M Specifications	Y	N		X		X		X		
Y	N										
	X										
	X										
	X										
<b>Other comments:</b>	⌘										

## Change in Clause 5

### 5 Structure of the OSA API (29.198) and Mapping (29.998) documents

The Open Service Access (OSA) Application Programming Interface (API) specifications consist of two sets of documents:

#### **API specification** (3GPP TS 29.198)

The Parts of 29.198 - apart from Part 1 (the present document) and Part 2 - define the interfaces, parameters and state models that belong to the API specification. UML (Unified Modelling Language) is used to specify the interface classes.

As such it provides a UML interface class description of the methods (API calls) supported by that interface and the relevant parameters and types. The interfaces are specified both in IDL (Interface Description Language) and in ~~WSDL (Web Services Definition Language). Reference is made to the~~ Java™ ~~API specification of the~~ interfaces.

## End of Change in Clause 5

## Change in Clause 7.9

### 7.9 Exception Hierarchy

Exceptions are organized in an exception hierarchy. For the general exceptions and for each service type an abstract exception class is defined. Advantage for an application programmer is that (s)he does not need to catch all the specific exceptions, but may catch only the abstract exceptions.

Note however that the exception hierarchy is only available when the applicable OSA realisation supports this. Java™ does, but CORBA ~~and WSDL/SOAP~~ [does](#) not.

## End of Change in 7.9

## Change in Clause Annex B

### Annex B (informative): W3C WSDL

[Significant changes have occurred in Web Services technologies and understanding of how to best apply Web Services as a realisation of OSA. These changes are not reflected and therefore this realisation is removed. A future activity may provide a replacement for the content of this annex, reflective of current technology and usage expected. ~~B.1 Tools and Languages~~](#)

~~The W3C (<http://www.w3c.org>) WSDL (Web Services Definition Language) is an XML format for describing network services as a set of endpoints operating on messages containing either document oriented or procedure oriented information. WSDL files are generated from the UML model using scripts. The generated WSDL files are verified using WSDL compilers.. The WSDL is based on W3C WSDL 1.1~~

### ~~B.2 Proposed Namespaces for the OSA WSDL~~

~~Namespaces are an important part of an XML Schema. They are used to qualify the source of a particular XML element.~~

There are several XML/SOAP/WSDL related Namespaces which are used within each of the WSDL documents. The Namespace Prefix and the Namespace are noted below:

```
xmlns:wSDL='http://schemas.xmlsoap.org/wSDL/'
xmlns:soap='http://schemas.xmlsoap.org/wSDL/soap/'
xmlns:SOAP-ENC='http://schemas.xmlsoap.org/soap/encoding/'
xmlns:xsd='http://www.w3c.org/2001/XMLSchema'
```

There are also OSA specific namespaces which are used within the OSA WSDL documents. The OSA related namespaces present within each WSDL document depends on the WSDL document and which WSDL documents it imports. The guidelines used to derive these namespaces are:

—The root namespace for the OSA WSDL and XML schemas is `http://www.esapi.org/`

—There is one document generated for each component (Module) within the Analysis UML model. The document will have the name of the UML component with the extension `'.wSDL'`. For each wSDL document generated the following additional namespaces will be included:

```
xmlns:<component name>='http://www.esapi.org/<component name>/wSDL'
xmlns:<component name>xsd='http://www.esapi.org/<component name>/schema'
```

oFor each OSA wSDL document which is referenced by an import statement within the current wSDL document then the following additional namespaces will be included:

```
xmlns:<imported component name>='http://www.esapi.org/<imported component name>/wSDL'
xmlns:<imported component name>xsd='http://www.esapi.org/<imported component name>/schema'
```

—Attributes which require a QName value shall use the appropriate Namespace Prefix (as defined in the definitions element of the wSDL file) to qualify the element being referenced.

The namespaces are defined within the `'definitions'` element of a wSDL document. For example, the definitions element of the `am.wSDL` document would look like:

```
<definitions
  name='am'
  targetNamespace='http://www.esapi.org/am/wSDL'
  xmlns='http://schemas.xmlsoap.org/wSDL/'
  xmlns:wSDL='http://schemas.xmlsoap.org/wSDL/'
  xmlns:soap='http://schemas.xmlsoap.org/wSDL/soap/'
  xmlns:SOAP-ENC='http://schemas.xmlsoap.org/soap/encoding/'
  xmlns:xsd='http://www.w3c.org/2001/XMLSchema'
  xmlns:am='http://www.esapi.org/am/wSDL'
  xmlns:amxsd='http://www.esapi.org/am/schema'
  xmlns:osa='http://www.esapi.org/osa/wSDL'
  xmlns:osaxsd='http://www.esapi.org/osa/schema'>
  <import namespace='http://www.esapi.org/osa/wSDL'
    location='osa.wSDL' />
```

## B.3 Object References

Object references are used to identify an particular remote object instance. Object references are used in two ways:

1. Passed as a parameter within a method to a remote object or passed as an attribute of a structured type parameter within a method to the remote object.
2. Included within a message to identify the object for which the message is intended.

Within the context of SOAP, an object reference can be represented as a URL appended with a String. The String suffix identifies the particular remote object instance in the context of the URL.

An object reference will be represented by the new type ObjectRef. The ObjectRef type is defined within osa.wSDL as:

```
<xsd:simpleType name='Objectref'>
  <xsd:restriction base='xsd:string' />
</xsd:simpleType>
```

When an object reference is passed as a parameter, the parameter type is defined as a reference to an interface. When an object reference is an attribute of a structured type, that attribute is defined as a reference to an interface. Each interface will have a corresponding reference type associated with it. The interface reference will be defined as:

```
<xsd:simpleType name='InterfaceNameRef'>
  <xsd:restriction base='osaxsd:ObjectRef' />
</xsd:simpleType>
where InterfaceName is the name of the particular interface.
```

When an object reference is used to identify the intended recipient of a message, then the object reference is included in the SOAP Header element as an ObjectRefHeader. The ObjectRefHeader is defined in the osa.wSDL document as follows:

```
<message name='ObjectRefHeader'>
  <part name='header' element='osaxsd:ObjectRef' />
</message>
```

Within each method, the ObjectRefHeader is bound to the message within the wsdl:soap:header element of the input message of the binding element. For example:

```
<binding name='IpAccountManagerBinding' type='am:IpAccountManager'>
  <soap:binding style='rpc' transport='http://schemas.xmlsoap.org/soap/http' />
  <operation name='createNotification'>
    <soap:operation
      soapAction='http://www.esapi.org/am/IpAccountManager#createNotification' />
    <input>
      <soap:body
        encodingStyle='http://schemas.xmlsoap.org/soap/encoding/'
        namespace='http://www.esapi.org/am.wSDL'
        use='encoded' />
      <soap:header
        message='osaxsd:ObjectRefHeader' part='header' />
    </input>
```

## B.4 Mapping UML Data Types to XML Schema

### B.4.1 Data Types

#### B.4.1.1 <<Constant>>

The UML Constant data type contains the following attributes:

- Name
- Constant Value

This type would then map to the following XML Schema construct:

This mapping assumes that all constants are of type TpInt32

```
<xsd:simpleType name="Name">
  <xsd:restriction base="osaxsd:TpInt32">
    <xsd:minInclusive value="Constant Value" />
    <xsd:maxInclusive value="Constant Value" />
```

```

-----</xsd:restriction>
</xs:simpleType>

```

### ~~B.4.1.2 <<NameValuePair>>~~

The UML NameValuePair data type contains the following attributes:

- ~~—Name~~
- ~~—Attributes~~
  - ~~—Name~~

This type would then map to the following XML Schema construct:

```

<del><xsd:simpleType base="xsd:string" name="Name">
  <xsd:restriction base="xsd:String">
    <xsd:enumeration value="Attribute-Name" />
    <xsd:enumeration value="Attribute-Name" />
    ...
    <xsd:enumeration value="Attribute-Name" />
  </xsd:restriction>
</del></xsd:simpleType>
```

### ~~B.4.1.3 <<SequenceOfDataElements>>~~

The UML SequenceOfDataElements data type contains the following attributes:

- ~~—Name~~
- ~~—Roles~~
  - ~~—Name~~
  - ~~—Type~~

This type would then map to the following XML Schema construct:

```

<del><xsd:complexType name="Name">
  <xsd:sequence>
    <xsd:element
      Name="Role-Name"
      type="Role-Type" />
    <xsd:element
      Name="Role-Name"
      type="Role-Type" />
    ...
    <xsd:element
      Name="Role-Name"
      type="Role-Type" />
  </xsd:sequence>
</del></xsd:complexType>
```

### ~~B.4.1.4 <<TypeDef>>~~

The UML TypeDef data type contains the following attributes:

- ~~—Name~~

~~—ImplementationType~~

~~If the Implementation type is a technology-specific type, then the following mappings have been made:~~

~~TpBoolean—xsd:boolean~~

~~TpInt32—xsd:float~~

~~TpFloat—xsd:float~~

~~TpLongString—xsd:string~~

~~TpString—xsd:string~~

~~TpOctet—xsd:hexBinary~~

~~This type would then map to the following XML Schema construct:~~

~~<complexType name="**Name**" base="**ImplementationType**" />~~

~~B.4.1.5—<<NumberedSetOfDataElements>>~~

~~The UML NumberedSetOfDataElements data type for sequences types contains the following attributes:~~

~~—Name~~

~~—ImplementationType~~

~~This type would then map to the following XML Schema construct:~~

~~<xsd:complexType name="**Name**">  
 —<xsd:sequence>  
 —<xsd:element  
 — name="**Name**"  
 — type="**ImplementationType**"  
 — minOccurs="0"  
 — maxOccurs="unbounded" />  
 —</xsd:sequence>  
 </xsd:complexType>~~

~~B.4.1.6—<<TaggedChoiceOfDataElements>>~~

~~The UML TaggedChoiceOfDataElements data type contains the following attributes:~~

~~—Name~~

~~—SwitchType~~

~~—Roles~~

~~—Name~~

~~—Type~~

~~This type would then map to the following XML Schema construct:~~

~~<xsd:complexType name="**Name**">  
 —<xsd:sequence>  
 —<xsd:element name="SwitchName" type="**SwitchType**" />~~

```


<xsd:choice>
  <xsd:element name="Role-Name" type="Role-Type" />
  <xsd:element name="Role-Name" type="Role-Type" />
  ...
  <xsd:element name="Role-Name" type="Role-Type" />
</xsd:choice>
</xsd:sequence>
</complexType>


```

## ~~B.5 Mapping of UML SCF to WSDL~~

### ~~B.5.1 Mapping of Operations to WSDL message element~~

A UML Operation contains the following attributes:

- ~~—Interface~~
- ~~—Name~~
- ~~—Module Name~~
- ~~—Return Type~~
- ~~—Parameter~~
  - ~~—Name~~
  - ~~—Type~~

This type would then map to the following XML Schema construct:

```


<message name="Interface-Name">
  <part
    name="Parameter-Name"
    type="Parameter-Type" />
  ...
  <part
    name="Parameter-Name"
    type="Parameter-Type" />
</message>

<message name="Interface-NameResponse">
  <part name="return" type="ReturnType" />
</message>


```

~~Note: If the ReturnType is void, then no 'part' element would be included in the Response message. (i.e. <message name="**Interface-Name**Response" />).~~

### ~~B.5.2 Mapping of Exception to WSDL message element~~

A UML Exception has the following attributes:

- ~~—Name~~

All exceptions (except for CommonException), contain a parameter called ExtraInformation which is of type TpString.

This type would then map to the following XML Schema Construct:

```


<message name="Name">


```



```


<part
  name="ExtraInformation"
  type="osaxsd:TpString"/>
</message>


```

### B.5.3 Mapping of CommonExceptions to WSDL message element

The UML CommonExceptions type has the following attributes:

- ~~—Name (“CommonExceptions”)~~

The UML CommonException contains two parameters; ExceptionType which is of type osaxsd:TpInt32 and ExtraInformation which is of type osaxsd:TpString.

This type would then map to the following XML Schema Construct:

```


<message name="CommonExceptions">
  <part
    name="ExceptionType"
    type="osaxsd:TpInt32" />
  <part
    name="ExtraInformation"
    type="osaxsd:TpString" />
</message>


```

### B.5.4 Mapping of Interface Class to WSDL portType and binding elements

A UML Interface Class contains the following attributes:

- ~~—Name~~

- ~~—Associated module (i.e. component)~~

- ~~—Operations~~

- ~~—Name~~

- ~~—Parameters~~

- ~~—Name~~

- ~~—Exceptions~~

- ~~—Name~~

This type would then map to the following WSDL portType element:

```


<portType name="Name">
  <operation
    name="Operation-Name"
    <input message="Operation-Name"/>
    <output message="Operation-NameResponse"/>
    <fault message="Operation-Exception-Name" />
    ...
    <fault message="Operation-Exception-Name" />
  </operation>
  ...
  <operation
    name="Operation-Name"
    <input message="Operation-Name"/>
    <output message="Operation-NameResponse"/>
    <fault name="Operation-Exception-Name" message="Operation-Exception-Name"
  />


```

```

...
<fault message="Operation-Exception-Name" />
</operation>
</portType>

```

This type would also then map into the following WSDL binding element:

```

<binding
  name="Interface-NameBinding"
  type="Interface-Name">
  <soap:binding style="rpc" transport="http://schemas.xmlsoap.org/soap/http"/>
  <operation name="Operation-Name">
    <soap:operation soapAction="http://www.esapi.org/am/Name#Operation-Name"/>
    <input>
      <soap:body
        encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
        namespace="http://www.esapi.org/Module-Name/wsdl"
        use="encoded"/>
      <soap:header message="osaxsd:ObjRefHeader" part="header" />
    </input>
    <output>
      <soap:body
        encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
        namespace="http://www.esapi.org/Module-Name/wsdl"
        use="encoded"/>
    </output>
    <fault>
      <soap:fault name="Operation-Exception-Name"
        encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
        namespace="http://www.esapi.org/Module-Name/wsdl"
        use="encoded"/>
    </fault>
    ... additional fault elements
  </operation>
  ... additional operation elements
</binding>

```

### B.5.5 Mapping of UML SCF to WSDL service element

A UML Module contains the following attributes:

- Name
- Interfaces
  - Name

This type would then map to the following WSDL service element:

```

<service name="Name">
  <port binding="Interface-NameBinding" name="Interface-Name">

```

```
<soap:address location="http://{Service Address}"/>  
</port>  
  
... additional port elements  
</service>  
  
</definitions>
```

<p><b>End of Change in Annex B</b> <b>End of Document</b></p>
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## CHANGE REQUEST

⌘ **29.198-02 CR 049** ⌘ rev **-** ⌘ Current version: **5.8.0** ⌘

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**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Removal of OSA API SCFs description in W3C WSDL		
<b>Source:</b>	⌘ CN5 IBM (Joe McIntyre)		
<b>Work item code:</b>	⌘ OSA2	<b>Date:</b>	⌘ 18/11/2004
<b>Category:</b>	⌘ <b>F</b>	<b>Release:</b>	⌘ REL-5
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: <b>2</b> (GSM Phase 2) <b>R96</b> (Release 1996) <b>R97</b> (Release 1997) <b>R98</b> (Release 1998) <b>R99</b> (Release 1999) <b>Rel-4</b> (Release 4) <b>Rel-5</b> (Release 5) <b>Rel-6</b> (Release 6)

<b>Reason for change:</b>	⌘ OSA WSDL Realization is removed, as the realization is outdated and no suitable replacement is currently available.
<b>Summary of change:</b>	⌘ OSA WSDL Realization is removed.
<b>Consequences if not approved:</b>	⌘ Outdated WSDL Realization will remain in specifications.

<b>Clauses affected:</b>	⌘ Annex B										
<b>Other specs affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td style="width: 20px;"> </td> <td style="width: 20px;">X</td> </tr> <tr> <td style="width: 20px;"> </td> <td style="width: 20px;">X</td> </tr> <tr> <td style="width: 20px;"> </td> <td style="width: 20px;">X</td> </tr> </table> Other core specifications    ⌘ Test specifications O&M Specifications	Y	N		X		X		X		
Y	N										
	X										
	X										
	X										
<b>Other comments:</b>	⌘										

**Change in Clause Annex B**

**Annex B (informative):  
W3C WSDL Description of the Common Data definitions**

~~The W3C WSDL representation of this specification is contained in a text file (osa.wsdl contained in archive 2919802V580WSDL.ZIP) which accompanies the present document.~~

Significant changes have occurred in Web Services technologies and understanding of how to best apply Web Services as a realisation of OSA. These changes are not reflected and therefore this realisation is removed. A future activity may provide a replacement for the content of this annex, reflective of current technology and usage expected.

**End of Change in Annex B  
End of Document**

## CHANGE REQUEST

⌘ **29.198-03 CR 127** ⌘ rev **-** ⌘ Current version: **5.8.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Removal of OSA API SCFs description in W3C WSDL		
<b>Source:</b>	⌘ CN5 IBM (Joe McIntyre)		
<b>Work item code:</b>	⌘ OSA2	<b>Date:</b>	⌘ 18/11/2004
<b>Category:</b>	⌘ <b>F</b>	<b>Release:</b>	⌘ REL-5
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

<b>Reason for change:</b>	⌘ OSA WSDL Realization is removed, as the realization is outdated and no suitable replacement is currently available.
<b>Summary of change:</b>	⌘ OSA WSDL Realization is removed.
<b>Consequences if not approved:</b>	⌘ Outdated WSDL Realization will remain in specifications.

<b>Clauses affected:</b>	⌘ Annex B						
<b>Other specs affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Other core specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Test specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
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	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> O&M Specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
<b>Other comments:</b>	⌘						

**Change in Clause Annex B**

**Annex B (informative):  
W3C WSDL Description of Framework**

~~The W3C WSDL representation of this specification is contained in text files (fw\_data.wsdl, fw\_if\_access.wsdl, fw\_if\_app.wsdl, and fw\_if\_service.wsdl contained in archive 2919803V580WSDL.ZIP) which accompanies the present document.~~

Significant changes have occurred in Web Services technologies and understanding of how to best apply Web Services as a realisation of OSA. These changes are not reflected and therefore this realisation is removed. A future activity may provide a replacement for the content of this annex, reflective of current technology and usage expected.

**End of Change in Annex B  
End of Document**

## CHANGE REQUEST

⌘ **29.198-04-1 CR 015** ⌘ rev **-** ⌘ Current version: **5.7.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Removal of OSA API SCFs description in W3C WSDL		
<b>Source:</b>	⌘ CN5 IBM (Joe McIntyre)		
<b>Work item code:</b>	⌘ OSA2	<b>Date:</b>	⌘ 18/11/2004
<b>Category:</b>	⌘ <b>F</b>	<b>Release:</b>	⌘ REL-5
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: <b>2</b> (GSM Phase 2) <b>R96</b> (Release 1996) <b>R97</b> (Release 1997) <b>R98</b> (Release 1998) <b>R99</b> (Release 1999) <b>Rel-4</b> (Release 4) <b>Rel-5</b> (Release 5) <b>Rel-6</b> (Release 6)

<b>Reason for change:</b>	⌘ OSA WSDL Realization is removed, as the realization is outdated and no suitable replacement is currently available.
<b>Summary of change:</b>	⌘ OSA WSDL Realization is removed.
<b>Consequences if not approved:</b>	⌘ Outdated WSDL Realization will remain in specifications.

<b>Clauses affected:</b>	⌘ Annex B										
<b>Other specs affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> </table>	Y	N		X		X		X	Other core specifications Test specifications O&M Specifications	⌘
Y	N										
	X										
	X										
	X										
<b>Other comments:</b>	⌘										



**Change in Clause Annex B**

**Annex B (informative):  
W3C WSDL Description of Common Call Control Data  
Types**

~~The W3C WSDL representation of this specification is contained in text files (common\_cc\_data.wsdl contained in archive 2919804-1V570WSDL.ZIP) which accompanies the present document.~~

Significant changes have occurred in Web Services technologies and understanding of how to best apply Web Services as a realisation of OSA. These changes are not reflected and therefore this realisation is removed. A future activity may provide a replacement for the content of this annex, reflective of current technology and usage expected.

**End of Change in Annex B  
End of Document**

## CHANGE REQUEST

⌘ **29.198-04-2 CR 028** ⌘ rev **-** ⌘ Current version: **5.8.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Removal of OSA API SCFs description in W3C WSDL		
<b>Source:</b>	⌘ CN5 IBM (Joe McIntyre)		
<b>Work item code:</b>	⌘ OSA2	<b>Date:</b>	⌘ 18/11/2004
<b>Category:</b>	⌘ <b>F</b>	<b>Release:</b>	⌘ REL-5
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: <b>2</b> (GSM Phase 2) <b>R96</b> (Release 1996) <b>R97</b> (Release 1997) <b>R98</b> (Release 1998) <b>R99</b> (Release 1999) <b>Rel-4</b> (Release 4) <b>Rel-5</b> (Release 5) <b>Rel-6</b> (Release 6)

<b>Reason for change:</b>	⌘ OSA WSDL Realization is removed, as the realization is outdated and no suitable replacement is currently available.
<b>Summary of change:</b>	⌘ OSA WSDL Realization is removed.
<b>Consequences if not approved:</b>	⌘ Outdated WSDL Realization will remain in specifications.

<b>Clauses affected:</b>	⌘ Annex B										
<b>Other specs affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td style="width: 20px;"> </td> <td style="width: 20px;">X</td> </tr> <tr> <td style="width: 20px;"> </td> <td style="width: 20px;">X</td> </tr> <tr> <td style="width: 20px;"> </td> <td style="width: 20px;">X</td> </tr> </table> Other core specifications	Y	N		X		X		X	⌘	
Y	N										
	X										
	X										
	X										
<b>Other comments:</b>	⌘										

**Change in Clause Annex B**

**Annex B (informative):  
W3C WSDL Description of Generic Call Control SCF**

~~The W3C WSDL representation of this specification is contained in text files (gce\_data.wsdl, gce\_interfaces.wsdl contained in archive 2919804-2V580WSDL.ZIP) which accompanies the present document.~~

~~[Significant changes have occurred in Web Services technologies and understanding of how to best apply Web Services as a realisation of OSA. These changes are not reflected and therefore this realisation is removed. A future activity may provide a replacement for the content of this annex, reflective of current technology and usage expected.](#)~~

**End of Change in Annex B  
End of Document**

## CHANGE REQUEST

⌘ **29.198-04-3 CR 034** ⌘ rev **-** ⌘ Current version: **5.8.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Removal of OSA API SCFs description in W3C WSDL		
<b>Source:</b>	⌘ CN5 IBM (Joe McIntyre)		
<b>Work item code:</b>	⌘ OSA2	<b>Date:</b>	⌘ 18/11/2004
<b>Category:</b>	⌘ <b>F</b>	<b>Release:</b>	⌘ REL-5
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: <b>2</b> (GSM Phase 2) <b>R96</b> (Release 1996) <b>R97</b> (Release 1997) <b>R98</b> (Release 1998) <b>R99</b> (Release 1999) <b>Rel-4</b> (Release 4) <b>Rel-5</b> (Release 5) <b>Rel-6</b> (Release 6)

<b>Reason for change:</b>	⌘ OSA WSDL Realization is removed, as the realization is outdated and no suitable replacement is currently available.
<b>Summary of change:</b>	⌘ OSA WSDL Realization is removed.
<b>Consequences if not approved:</b>	⌘ Outdated WSDL Realization will remain in specifications.

<b>Clauses affected:</b>	⌘ Annex B						
<b>Other specs affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Other core specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Test specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> O&M Specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
<b>Other comments:</b>	⌘						

**Change in Clause Annex B**

**Annex B (informative):  
W3C WSDL Description of Multi-Party Call Control SCF**

~~The W3C WSDL representation of this specification is contained in text files (mpec\_data.wsdl, mpec\_interfaces.wsdl contained in archive 2919804-3V580WSDL.ZIP) which accompanies the present document.~~

~~[Significant changes have occurred in Web Services technologies and understanding of how to best apply Web Services as a realisation of OSA. These changes are not reflected and therefore this realisation is removed. A future activity may provide a replacement for the content of this annex, reflective of current technology and usage expected.](#)~~

**End of Change in Annex B  
End of Document**

# CHANGE REQUEST

⌘ **29.198-04-4 CR 022** ⌘ rev **-** ⌘ Current version: **5.8.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Removal of OSA API SCFs description in W3C WSDL		
<b>Source:</b>	⌘ CN5 IBM (Joe McIntyre)		
<b>Work item code:</b>	⌘ OSA2	<b>Date:</b>	⌘ 18/11/2004
<b>Category:</b>	⌘ <b>F</b>	<b>Release:</b>	⌘ REL-5
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: <b>2</b> (GSM Phase 2) <b>R96</b> (Release 1996) <b>R97</b> (Release 1997) <b>R98</b> (Release 1998) <b>R99</b> (Release 1999) <b>Rel-4</b> (Release 4) <b>Rel-5</b> (Release 5) <b>Rel-6</b> (Release 6)

<b>Reason for change:</b>	⌘ OSA WSDL Realization is removed, as the realization is outdated and no suitable replacement is currently available.
<b>Summary of change:</b>	⌘ OSA WSDL Realization is removed.
<b>Consequences if not approved:</b>	⌘ Outdated WSDL Realization will remain in specifications.

<b>Clauses affected:</b>	⌘ Annex B										
<b>Other specs affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> </table>	Y	N		X		X		X	Other core specifications Test specifications O&M Specifications	⌘
Y	N										
	X										
	X										
	X										
<b>Other comments:</b>	⌘										

**Change in Clause Annex B**

**Annex B (informative):  
W3C WSDL Description of Multi-Media Call Control SCF**

~~The W3C WSDL representation of this specification is contained in text files (mmces.wsdl contained in archive 2919804-4V580WSDL.ZIP) which accompanies the present document.~~

~~Significant changes have occurred in Web Services technologies and understanding of how to best apply Web Services as a realisation of OSA. These changes are not reflected and therefore this realisation is removed. A future activity may provide a replacement for the content of this annex, reflective of current technology and usage expected.~~

**End of Change in Annex B  
End of Document**

# CHANGE REQUEST

⌘ **29.198-05 CR 062** ⌘ rev **-** ⌘ Current version: **5.8.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Removal of OSA API SCFs description in W3C WSDL		
<b>Source:</b>	⌘ CN5 IBM (Joe McIntyre)		
<b>Work item code:</b>	⌘ OSA2	<b>Date:</b>	⌘ 18/11/2004
<b>Category:</b>	⌘ <b>F</b>	<b>Release:</b>	⌘ REL-5
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: <b>2</b> (GSM Phase 2) <b>R96</b> (Release 1996) <b>R97</b> (Release 1997) <b>R98</b> (Release 1998) <b>R99</b> (Release 1999) <b>Rel-4</b> (Release 4) <b>Rel-5</b> (Release 5) <b>Rel-6</b> (Release 6)

<b>Reason for change:</b>	⌘ OSA WSDL Realization is removed, as the realization is outdated and no suitable replacement is currently available.
<b>Summary of change:</b>	⌘ OSA WSDL Realization is removed.
<b>Consequences if not approved:</b>	⌘ Outdated WSDL Realization will remain in specifications.

<b>Clauses affected:</b>	⌘ Annex B										
<b>Other specs affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td style="width: 20px;"> </td> <td style="width: 20px;">X</td> </tr> <tr> <td style="width: 20px;"> </td> <td style="width: 20px;">X</td> </tr> <tr> <td style="width: 20px;"> </td> <td style="width: 20px;">X</td> </tr> </table>	Y	N		X		X		X	Other core specifications Test specifications O&M Specifications	⌘
Y	N										
	X										
	X										
	X										
<b>Other comments:</b>	⌘										



**Change in Clause Annex B**

**Annex B (informative):  
W3C WSDL Description of User Interaction SCF**

~~The W3C WSDL representation of this specification is contained in text files (ui\_interfaces, wsdl and ui\_data.wsdl contained in archive 2919805V580WSDL.ZIP) which accompanies the present document.~~

Significant changes have occurred in Web Services technologies and understanding of how to best apply Web Services as a realisation of OSA. These changes are not reflected and therefore this realisation is removed. A future activity may provide a replacement for the content of this annex, reflective of current technology and usage expected.

**End of Change in Annex B  
End of Document**

## CHANGE REQUEST

⌘ **29.198-06 CR 052** ⌘ rev **-** ⌘ Current version: **5.6.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Removal of OSA API SCFs description in W3C WSDL		
<b>Source:</b>	⌘ CN5 IBM (Joe McIntyre)		
<b>Work item code:</b>	⌘ OSA2	<b>Date:</b>	⌘ 18/11/2004
<b>Category:</b>	⌘ <b>F</b>	<b>Release:</b>	⌘ REL-5
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: <b>2</b> (GSM Phase 2) <b>R96</b> (Release 1996) <b>R97</b> (Release 1997) <b>R98</b> (Release 1998) <b>R99</b> (Release 1999) <b>Rel-4</b> (Release 4) <b>Rel-5</b> (Release 5) <b>Rel-6</b> (Release 6)

<b>Reason for change:</b>	⌘ OSA WSDL Realization is removed, as the realization is outdated and no suitable replacement is currently available.
<b>Summary of change:</b>	⌘ OSA WSDL Realization is removed.
<b>Consequences if not approved:</b>	⌘ Outdated WSDL Realization will remain in specifications.

<b>Clauses affected:</b>	⌘ Annex B										
<b>Other specs affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td style="width: 20px;"> </td> <td style="width: 20px;">X</td> </tr> <tr> <td style="width: 20px;"> </td> <td style="width: 20px;">X</td> </tr> <tr> <td style="width: 20px;"> </td> <td style="width: 20px;">X</td> </tr> </table>	Y	N		X		X		X	Other core specifications Test specifications O&M Specifications	⌘
Y	N										
	X										
	X										
	X										
<b>Other comments:</b>	⌘										

**Change in Clause Annex B**

**Annex B (informative):  
W3C WSDL Description of Mobility SCF**

~~The W3C WSDL representation of this specification is contained in a text file (mm.wsdl contained in archive 2919806V560WSDL.ZIP) which accompanies the present document.~~

~~Significant changes have occurred in Web Services technologies and understanding of how to best apply Web Services as a realisation of OSA. These changes are not reflected and therefore this realisation is removed. A future activity may provide a replacement for the content of this annex, reflective of current technology and usage expected.~~

**End of Change in Annex B  
End of Document**

## CHANGE REQUEST

⌘ **29.198-07 CR 032** ⌘ rev **-** ⌘ Current version: **5.7.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Removal of OSA API SCFs description in W3C WSDL		
<b>Source:</b>	⌘ CN5 IBM (Joe McIntyre)		
<b>Work item code:</b>	⌘ OSA2	<b>Date:</b>	⌘ 18/11/2004
<b>Category:</b>	⌘ <b>F</b>	<b>Release:</b>	⌘ REL-5
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: <b>2</b> (GSM Phase 2) <b>R96</b> (Release 1996) <b>R97</b> (Release 1997) <b>R98</b> (Release 1998) <b>R99</b> (Release 1999) <b>Rel-4</b> (Release 4) <b>Rel-5</b> (Release 5) <b>Rel-6</b> (Release 6)

<b>Reason for change:</b>	⌘ OSA WSDL Realization is removed, as the realization is outdated and no suitable replacement is currently available.
<b>Summary of change:</b>	⌘ OSA WSDL Realization is removed.
<b>Consequences if not approved:</b>	⌘ Outdated WSDL Realization will remain in specifications.

<b>Clauses affected:</b>	⌘ Annex B						
<b>Other specs affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Other core specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Test specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> O&M Specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
<b>Other comments:</b>	⌘						

**Change in Clause Annex B**

**Annex B (informative):  
W3C WSDL Description of Terminal Capabilities SCF**

~~The W3C WSDL representation of this specification is contained in a text file (termcap.wsdl contained in archive 2919807V570WSDL.ZIP) which accompanies the present document.~~

~~Significant changes have occurred in Web Services technologies and understanding of how to best apply Web Services as a realisation of OSA. These changes are not reflected and therefore this realisation is removed. A future activity may provide a replacement for the content of this annex, reflective of current technology and usage expected.~~

**End of Change in Annex B  
End of Document**

## CHANGE REQUEST

⌘ **29.198-08 CR 038** ⌘ rev **-** ⌘ Current version: **5.7.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Removal of OSA API SCFs description in W3C WSDL		
<b>Source:</b>	⌘ CN5 IBM (Joe McIntyre)		
<b>Work item code:</b>	⌘ OSA2	<b>Date:</b>	⌘ 18/11/2004
<b>Category:</b>	⌘ <b>F</b>	<b>Release:</b>	⌘ REL-5
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: <b>2</b> (GSM Phase 2) <b>R96</b> (Release 1996) <b>R97</b> (Release 1997) <b>R98</b> (Release 1998) <b>R99</b> (Release 1999) <b>Rel-4</b> (Release 4) <b>Rel-5</b> (Release 5) <b>Rel-6</b> (Release 6)

<b>Reason for change:</b>	⌘ OSA WSDL Realization is removed, as the realization is outdated and no suitable replacement is currently available.
<b>Summary of change:</b>	⌘ OSA WSDL Realization is removed.
<b>Consequences if not approved:</b>	⌘ Outdated WSDL Realization will remain in specifications.

<b>Clauses affected:</b>	⌘ Annex B						
<b>Other specs affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td style="width: 20px;"><input type="checkbox"/></td> <td style="width: 20px;"><input checked="" type="checkbox"/></td> </tr> </table> Other core specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;"><input type="checkbox"/></td> <td style="width: 20px;"><input checked="" type="checkbox"/></td> </tr> </table> Test specifications	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘			
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;"><input type="checkbox"/></td> <td style="width: 20px;"><input checked="" type="checkbox"/></td> </tr> </table> O&M Specifications	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘			
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
<b>Other comments:</b>	⌘						

**Change in Clause Annex B**

**Annex B (informative):  
W3C WSDL Description of Data Session Control SCF**

~~The W3C WSDL representation of this specification is contained in a text file (dsc.wsdl contained in archive 2919808V570WSDL.ZIP) which accompanies the present document.~~

~~[Significant changes have occurred in Web Services technologies and understanding of how to best apply Web Services as a realisation of OSA. These changes are not reflected and therefore this realisation is removed. A future activity may provide a replacement for the content of this annex, reflective of current technology and usage expected.](#)~~

**End of Change in Annex B  
End of Document**

## CHANGE REQUEST

⌘ **29.198-11 CR 033** ⌘ rev **-** ⌘ Current version: **5.6.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Removal of OSA API SCFs description in W3C WSDL		
<b>Source:</b>	⌘ CN5 IBM (Joe McIntyre)		
<b>Work item code:</b>	⌘ OSA2	<b>Date:</b>	⌘ 18/11/2004
<b>Category:</b>	⌘ <b>F</b>	<b>Release:</b>	⌘ REL-5
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: <b>2</b> (GSM Phase 2) <b>R96</b> (Release 1996) <b>R97</b> (Release 1997) <b>R98</b> (Release 1998) <b>R99</b> (Release 1999) <b>Rel-4</b> (Release 4) <b>Rel-5</b> (Release 5) <b>Rel-6</b> (Release 6)

<b>Reason for change:</b>	⌘ OSA WSDL Realization is removed, as the realization is outdated and no suitable replacement is currently available.
<b>Summary of change:</b>	⌘ OSA WSDL Realization is removed.
<b>Consequences if not approved:</b>	⌘ Outdated WSDL Realization will remain in specifications.

<b>Clauses affected:</b>	⌘ Annex B										
<b>Other specs affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td style="width: 20px;"> </td> <td style="width: 20px;">X</td> </tr> <tr> <td style="width: 20px;"> </td> <td style="width: 20px;">X</td> </tr> <tr> <td style="width: 20px;"> </td> <td style="width: 20px;">X</td> </tr> </table>	Y	N		X		X		X	Other core specifications Test specifications O&M Specifications	⌘
Y	N										
	X										
	X										
	X										
<b>Other comments:</b>	⌘										



**Change in Clause Annex B**

**Annex B (informative):  
W3C WSDL Description of Account Management SCF**

~~The W3C WSDL representation of this specification is contained in a text file (am.wsdl contained in archive 2919811V560WSDL.ZIP) which accompanies the present document.~~

~~[Significant changes have occurred in Web Services technologies and understanding of how to best apply Web Services as a realisation of OSA. These changes are not reflected and therefore this realisation is removed. A future activity may provide a replacement for the content of this annex, reflective of current technology and usage expected.](#)~~

**End of Change in Annex B  
End of Document**

## CHANGE REQUEST

⌘ **29.198-12 CR 034** ⌘ rev **-** ⌘ Current version: **5.7.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Removal of OSA API SCFs description in W3C WSDL		
<b>Source:</b>	⌘ CN5 IBM (Joe McIntyre)		
<b>Work item code:</b>	⌘ OSA2	<b>Date:</b>	⌘ 18/11/2004
<b>Category:</b>	⌘ <b>F</b>	<b>Release:</b>	⌘ REL-5
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: <b>2</b> (GSM Phase 2) <b>R96</b> (Release 1996) <b>R97</b> (Release 1997) <b>R98</b> (Release 1998) <b>R99</b> (Release 1999) <b>Rel-4</b> (Release 4) <b>Rel-5</b> (Release 5) <b>Rel-6</b> (Release 6)

<b>Reason for change:</b>	⌘ OSA WSDL Realization is removed, as the realization is outdated and no suitable replacement is currently available.
<b>Summary of change:</b>	⌘ OSA WSDL Realization is removed.
<b>Consequences if not approved:</b>	⌘ Outdated WSDL Realization will remain in specifications.

<b>Clauses affected:</b>	⌘ Annex B										
<b>Other specs affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td style="width: 20px;"> </td> <td style="width: 20px;">X</td> </tr> <tr> <td style="width: 20px;"> </td> <td style="width: 20px;">X</td> </tr> <tr> <td style="width: 20px;"> </td> <td style="width: 20px;">X</td> </tr> </table> Other core specifications      ⌘ Test specifications O&M Specifications	Y	N		X		X		X		
Y	N										
	X										
	X										
	X										
<b>Other comments:</b>	⌘										

## Change in Clause Annex B

### Annex B (informative): W3C WSDL Description of Charging SCF

~~The W3C WSDL representation of this specification is contained in a text file (es.wsdl contained in archive 2919812V570WSDL.ZIP) which accompanies the present document.~~

~~[Significant changes have occurred in Web Services technologies and understanding of how to best apply Web Services as a realisation of OSA. These changes are not reflected and therefore this realisation is removed. A future activity may provide a replacement for the content of this annex, reflective of current technology and usage expected.](#)~~

**End of Change in Annex B  
End of Document**

# CHANGE REQUEST

⌘ **29.198-01 CR 040** ⌘ rev **-** ⌘ Current version: **6.2.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Removal of OSA API SCFs description in W3C WSDL		
<b>Source:</b>	⌘ CN5 IBM (Joe McIntyre)		
<b>Work item code:</b>	⌘ OSA2	<b>Date:</b>	⌘ 18/11/2004
<b>Category:</b>	⌘ <b>A</b>	<b>Release:</b>	⌘ REL-6
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

<b>Reason for change:</b>	⌘ OSA WSDL Realization is removed, as the realization is outdated and no suitable replacement is currently available.
<b>Summary of change:</b>	⌘ OSA WSDL Realization is removed, and references to WSDL in other document sections.
<b>Consequences if not approved:</b>	⌘ Outdated OSA WSDL Realization will remain in specifications.

<b>Clauses affected:</b>	⌘ 5, 7.9, Annex B										
<b>Other specs affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> </table>	Y	N		X		X		X	Other core specifications Test specifications O&M Specifications	⌘
Y	N										
	X										
	X										
	X										
<b>Other comments:</b>	⌘										

## Change in Clause 5

# 5 Structure of the OSA API (29.198) and Mapping (29.998) documents

The Open Service Access (OSA) Application Programming Interface (API) specifications consist of two sets of documents:

### API specification (3GPP TS 29.198)

The Parts of 29.198 - apart from Part 1 (the present document) and Part 2 - define the interfaces, parameters and state models that belong to the API specification. UML (Unified Modelling Language) is used to specify the interface classes.

As such it provides a UML interface class description of the methods (API calls) supported by that interface and the relevant parameters and types. The interfaces are specified both in IDL (Interface Description Language) and in ~~WSDL (Web Services Definition Language). Reference is made to the~~ Java™ ~~API specification of the~~ interfaces.

## End of Change in Clause 5

## Change in Clause 7.9

# 7.9 Exception Hierarchy

Exceptions are organized in an exception hierarchy. For the general exceptions and for each service type an abstract exception class is defined. Advantage for an application programmer is that (s)he does not need to catch all the specific exceptions, but may catch only the abstract exceptions.

Note however that the exception hierarchy is only available when the applicable OSA realisation supports this. Java™ does, but CORBA ~~and WSDL/SOAP~~ [does](#) not.

## End of Change in 7.9

## Change in Clause Annex B

# Annex B (informative): W3C WSDL

[Significant changes have occurred in Web Services technologies and understanding of how to best apply Web Services as a realisation of OSA. These changes are not reflected and therefore this realisation is removed. A future activity may provide a replacement for the content of this annex, reflective of current technology and usage expected. ~~B.1 Tools and Languages~~](#)

~~The W3C (<http://www.w3c.org>) WSDL (Web Services Definition Language) is an XML format for describing network services as a set of endpoints operating on messages containing either document oriented or procedure oriented information. WSDL files are generated from the UML model using scripts. The generated WSDL files are verified using WSDL compilers.. The WSDL is based on W3C WSDL 1.1~~

### ~~B.2 Proposed Namespaces for the OSA WSDL~~

~~Namespaces are an important part of an XML Schema. They are used to qualify the source of a particular XML element.~~

~~There are several XML/SOAP/WSDL related Namespaces which are used within each of the WSDL documents. The Namespace Prefix and the Namespace are noted below.~~

```

xmlns:wSDL='http://schemas.xmlsoap.org/wSDL/'
xmlns:soap='http://schemas.xmlsoap.org/wSDL/soap/'
xmlns:SOAP-ENC='http://schemas.xmlsoap.org/soap/encoding/'
xmlns:xsd='http://www.w3c.org/2001/XMLSchema'

```

There are also OSA specific namespaces which are used within the OSA WSDL documents. The OSA related namespaces present within each WSDL document depends on the WSDL document and which WSDL documents it imports. The guidelines used to derive these namespaces are:

- The root namespace for the OSA WSDL and XML schemas is <http://www.esapi.org/>

- There is one document generated for each component (Module) within the Analysis UML model. The document will have the name of the UML component with the extension '.wSDL'. For each wSDL document generated the following additional namespaces will be included:

```

xmlns:<component name>='http://www.esapi.org/<component name>/wSDL'
xmlns:<component name>xsd='http://www.esapi.org/<component name>/schema'

```

- oFor each OSA wSDL document which is referenced by an import statement within the current wSDL document then the following additional namespaces will be included:

```

xmlns:<imported component name>='http://www.esapi.org/<imported component name>/wSDL'
xmlns:<imported component name>xsd='http://www.esapi.org/<imported component name>/schema'

```

- Attributes which require a QName value shall use the appropriate Namespace Prefix (as defined in the definitions element of the wSDL file) to qualify the element being referenced.

The namespaces are defined within the 'definitions' element of a wSDL document. For example, the definitions element of the am.wSDL document would look like:

```

<definitions
  name='am'
  targetNamespace='http://www.esapi.org/am/wSDL'
  xmlns='http://schemas.xmlsoap.org/wSDL/'
  xmlns:wSDL='http://schemas.xmlsoap.org/wSDL/'
  xmlns:soap='http://schemas.xmlsoap.org/wSDL/soap/'
  xmlns:SOAP-ENC='http://schemas.xmlsoap.org/soap/encoding/'
  xmlns:xsd='http://www.w3.org/2001/XMLSchema'
  xmlns:am='http://www.esapi.org/am/wSDL'
  xmlns:amxsd='http://www.esapi.org/am/schema'
  xmlns:osa='http://www.esapi.org/osa/wSDL'
  xmlns:osaxsd='http://www.esapi.org/osa/schema'

  <import namespace='http://www.esapi.org/osa/wSDL'
    location='osa.wSDL' />

```

### B.3 Object References

Object references are used to identify a particular remote object instance. Object references are used in two ways:

1. Passed as a parameter within a method to a remote object or passed as an attribute of a structured type parameter within a method to the remote object.

2. Included within a message to identify the object for which the message is intended.

Within the context of SOAP, an object reference can be represented as a URL appended with a String. The String suffix identifies the particular remote object instance in the context of the URL.

An object reference will be represented by the new type ObjectRef. The ObjectRef type is defined within osa.wSDL as:

```
<xsd:simpleType name='Objectref'>
  <xsd:restriction base='xsd:string' />
</xsd:simpleType>
```

When an object reference is passed as a parameter, the parameter type is defined as a reference to an interface. When an object reference is an attribute of a structured type, that attribute is defined as a reference to an interface. Each interface will have a corresponding reference type associated with it. The interface reference will be defined as:

```
<xsd:simpleType name='InterfaceNameRef'>
  <xsd:restriction base='osaxsd:ObjectRef' />
</xsd:simpleType>
```

where *InterfaceName* is the name of the particular interface.

When an object reference is used to identify the intended recipient of a message, then the object reference is included in the SOAP Header element as an ObjectRefHeader. The ObjectRefHeader is defined in the osa.wSDL document as follows:

```
<message name='ObjectRefHeader'>
  <part name='header' element='osaxsd:ObjectRef' />
</message>
```

Within each method, the ObjectRefHeader is bound to the message within the WSDL soap:header element of the input message of the binding element. For example:

```
<binding name='IpAccountManagerBinding' type='am:IpAccountManager'>
  <soap:binding style='rpc' transport='http://schemas.xmlsoap.org/soap/http' />
  <operation name='createNotification'>
    <soap:operation soapAction='http://www.esapi.org/am/IpAccountManager#createNotification' />
    <input>
      <soap:body
        encodingStyle='http://schemas.xmlsoap.org/soap/encoding/'
        namespace='http://www.esapi.org/am.wSDL'
        use='encoded' />
      <soap:header
        message='osaxsd:ObjectRefHeader' part='header' />
    </input>
```

## B.4 Mapping UML Data Types to XML Schema

### B.4.1 Data Types

#### B.4.1.1 ~~«Constant»~~

The UML Constant data type contains the following attributes:

- ~~—Name~~
- ~~—Constant Value~~

This type would then map to the following XML Schema construct:

This mapping assumes that all constants are of type `tpInt32`

```
<xsd:simpleType name="Name">
  <xsd:restriction base="osaxsd:TpInt32">
    <xsd:minInclusive value="Constant Value" />
    <xsd:maxInclusive value="Constant Value" />
  </xsd:restriction>
</xsd:simpleType>
```

#### B.4.1.2 ~~«NameValuePair»~~

The UML NameValuePair data type contains the following attributes:

- ~~—Name~~
- ~~—Attributes~~
- ~~—Name~~

This type would then map to the following XML Schema construct:

```
<xsd:simpleType base="xsd:string" name="Name">
  <xsd:restriction base="xsd:String">
    <xsd:enumeration value="Attribute-Name" />
    <xsd:enumeration value="Attribute-Name" />
    ...
    <xsd:enumeration value="Attribute-Name" />
  </xsd:restriction>
</xsd:simpleType>
```

#### B.4.1.3 ~~«SequenceOfDataElements»~~

The UML SequenceOfDataElements data type contains the following attributes:



~~—Name~~~~—Roles~~~~—Name~~~~—Type~~

This type would then map to the following XML Schema construct:

```
<xsd:complexType name="Name"
```

```
<xsd:sequence>
```

```
<xsd:element
```

```
  Name="Role-Name"
```

```
  type="Role-Type" />
```

```
<xsd:element
```

```
  Name="Role-Name"
```

```
  type="Role-Type" />
```

```
  ...
```

```
<xsd:element
```

```
  Name="Role-Name"
```

```
  type="Role-Type" />
```

```
</xsd:sequence>
```

```
</xsd:complexType>
```

#### B.4.1.4 ~~<<TypeDef>>~~

The UML TypeDef data type contains the following attributes:

~~—Name~~~~—ImplementationType~~

If the Implementation type is a technology specific type, then the following mappings have been made:

~~TpBoolean — xsd:boolean~~

~~TpInt32 — xsd:float~~

~~TpFloat — xsd:float~~

~~TpLongString — xsd:string~~

~~TpString — xsd:string~~

~~TpOctet — xsd:hexBinary~~

This type would then map to the following XML Schema construct:

```
<complexType name="Name" base="ImplementationType" />
```

**B.4.1.5** ~~UML NumberedSetOfDataElements~~

The UML ~~NumberedSetOfDataElements~~ data type for sequences types contains the following attributes:

- ~~Name~~
- ~~ImplementationType~~

This type would then map to the following XML Schema construct:

```

<xsd:complexType name="Name">
  <xsd:sequence>
    <xsd:element
      name="Name"
      type="ImplementationType"
      minOccurs="0"
      maxOccurs="unbounded" />
  </xsd:sequence>
</xsd:complexType>

```

**B.4.1.6** ~~UML TaggedChoiceOfDataElements~~

The UML ~~TaggedChoiceOfDataElements~~ data type contains the following attributes:

- ~~Name~~
- ~~SwitchType~~
- ~~Roles~~
- ~~Name~~
- ~~Type~~

This type would then map to the following XML Schema construct:

```

<xsd:complexType name="Name">
  <xsd:sequence>
    <xsd:element name="SwitchName" type="SwitchType" />
    <xsd:choice>
      <xsd:element name="Role-Name" type="Role-Type" />
      <xsd:element name="Role-Name" type="Role-Type" />
      ...
      <xsd:element name="Role-Name" type="Role-Type" />
    </xsd:choice>
  </xsd:sequence>
</xsd:complexType>

```

~~—</xsd:sequence>~~

~~</complexType>~~

## ~~B.5 Mapping of UML SCF to WSDL~~

### ~~B.5.1 Mapping of Operations to WSDL *message* element~~

~~A UML Operation contains the following attributes:~~

~~—Interface~~

~~—Name~~

~~—Module Name~~

~~—Return Type~~

~~—Parameter~~

~~—Name~~

~~—Type~~

~~This type would then map to the following XML Schema construct:~~

~~<message name="*Interface\_Name*">~~

~~—<part~~

~~— name="*Parameter\_Name*"~~

~~— type="*Parameter\_Type*" />~~

~~—...~~

~~—<part~~

~~— name="*Parameter\_Name*"~~

~~— type="*Parameter\_Type*" />~~

~~</message>~~

~~<message name="*Interface\_NameResponse*">~~

~~—<part name="return" type="*ReturnType*" />~~

~~</message>~~

~~Note: If the *ReturnType* is void, then no 'part' element would be included in the Response message. (i.e. <message name="*Interface\_NameResponse*" />).~~

### ~~B.5.2 Mapping of Exception to WSDL *message* element~~

~~A UML Exception has the following attributes:~~

~~—Name~~

~~All exceptions (except for *CommonException*), contain a parameter called *ExtraInformation* which is of type *TpString*.~~

This type would then map to the following XML Schema Construct:

```
<message name="Name">
  <part
    name="ExtraInformation"
    type="osaxsd:TpString"/>
</message>
```

### B.5.3 Mapping of CommonExceptions to WSDL message element

The UML CommonExceptions type has the following attributes:

- Name (“CommonExceptions”)

The UML CommonException contains two parameters; ExceptionType which is of type osaxsd:TpInt32 and ExtraInformation which is of type osaxsd:TpString.

This type would then map to the following XML Schema Construct:

```
<message name="CommonExceptions">
  <part
    name="ExceptionType"
    type="osaxsd:TpInt32"/>
  <part
    name="ExtraInformation"
    type="osaxsd:TpString"/>
</message>
```

### B.5.4 Mapping of Interface Class to WSDL portType and binding elements

A UML Interface Class contains the following attributes:

- Name

- Associated module (i.e. component)

- Operations

- Name

- Parameters

- Name

- Exceptions

- Name

This type would then map to the following WSDL portType element:

```
<portType name="Name">
```

```

<operation
  name="Operation-Name"
  <input message="Operation-Name" />
  <output message="Operation-NameResponse" />
  <fault message="Operation-Exception-Name" />
  ...
  <fault message="Operation-Exception-Name" />
</operation>
...
<operation
  name="Operation-Name"
  <input message="Operation-Name" />
  <output message="Operation-NameResponse" />
  <fault name="Operation-Exception-Name" message="Operation-Exception-Name" />
  ...
  <fault message="Operation-Exception-Name" />
</operation>
</portType>

```

This type would also then map into the following WSDL binding element:

```

<binding
  name="Interface-NameBinding"
  type="Interface-Name"
  <soap:binding style="rpc" transport="http://schemas.xmlsoap.org/soap/http" />
  ...
  <operation name="Operation-Name">
    <soap:operation soapAction="http://www.esapi.org/am/Name#Operation-Name" />
    <input>
      <soap:body
        encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
        namespace="http://www.esapi.org/Module-Name/wsdl"
        use="encoded" />
      <soap:header message="osaxsd:ObjRefHeader" part="header" />
    </input>
  </operation>

```

```

</output>
<soap:body
  encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
  namespace="http://www.esapi.org/Module-Name/wsdl"
  use="encoded"/>
</output>
<fault
  soap:fault name="Operation-Exception-Name"
  encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
  namespace="http://www.esapi.org/Module-Name/wsdl"
  use="encoded"/>
</fault>
... additional fault elements

</operation>
... additional operation elements

</binding>

```

**B.5.5 Mapping of UML SCF to WSDL *service* element**

A UML Module contains the following attributes:

- Name
- Interfaces
- Name

This type would then map to the following WSDL service element:

```

<service name="Name">
  <port binding="Interface-NameBinding" name="Interface-Name">
    <soap:address location="http://[Service-Address]" />
  </port>

```

—... *additional port elements*

</service>

</definitions>

**End of Change in Annex B  
End of Document**

## CHANGE REQUEST

⌘ **29.198-02 CR 050** ⌘ rev **-** ⌘ Current version: **6.2.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Removal of OSA API SCFs description in W3C WSDL		
<b>Source:</b>	⌘ CN5 IBM (Joe McIntyre)		
<b>Work item code:</b>	⌘ OSA2	<b>Date:</b>	⌘ 18/11/2004
<b>Category:</b>	⌘ <b>A</b>	<b>Release:</b>	⌘ REL-6
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

<b>Reason for change:</b>	⌘ OSA WSDL Realization is removed, as the realization is outdated and no suitable replacement is currently available.
<b>Summary of change:</b>	⌘ OSA WSDL Realization is removed.
<b>Consequences if not approved:</b>	⌘ Outdated WSDL Realization will remain in specifications.

<b>Clauses affected:</b>	⌘ Annex B						
<b>Other specs affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Other core specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Test specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
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Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
<b>Other comments:</b>	⌘						



## Change in Clause Annex B

### Annex B (informative): W3C WSDL Description of the Common Data definitions

~~The W3C WSDL representation of this specification is contained in a text file (osa.wsdl contained in archive 2919802V580WSDL.ZIP) which accompanies the present document.~~

~~[Significant changes have occurred in Web Services technologies and understanding of how to best apply Web Services as a realisation of OSA. These changes are not reflected and therefore this realisation is removed. A future activity may provide a replacement for the content of this annex, reflective of current technology and usage expected.](#)~~

**End of Change in Annex B  
End of Document**

## CHANGE REQUEST

⌘ **29.198-03 CR 128** ⌘ rev **-** ⌘ Current version: **6.2.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Removal of OSA API SCFs description in W3C WSDL		
<b>Source:</b>	⌘ CN5 IBM (Joe McIntyre)		
<b>Work item code:</b>	⌘ OSA2	<b>Date:</b>	⌘ 18/11/2004
<b>Category:</b>	⌘ <b>A</b>	<b>Release:</b>	⌘ REL-6
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: <b>2</b> (GSM Phase 2) <b>R96</b> (Release 1996) <b>R97</b> (Release 1997) <b>R98</b> (Release 1998) <b>R99</b> (Release 1999) <b>Rel-4</b> (Release 4) <b>Rel-5</b> (Release 5) <b>Rel-6</b> (Release 6)

<b>Reason for change:</b>	⌘ OSA WSDL Realization is removed, as the realization is outdated and no suitable replacement is currently available.
<b>Summary of change:</b>	⌘ OSA WSDL Realization is removed.
<b>Consequences if not approved:</b>	⌘ Outdated WSDL Realization will remain in specifications.

<b>Clauses affected:</b>	⌘ Annex B						
<b>Other specs affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Other core specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Test specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
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Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
<b>Other comments:</b>	⌘						

## Change in Clause Annex B

### Annex B (informative): W3C WSDL Description of Framework

~~The W3C WSDL representation of this specification is contained in text files (fw\_data.wsdl, fw\_if\_access.wsdl, fw\_if\_app.wsdl, and fw\_if\_service.wsdl contained in archive 2919803V620WSDL.ZIP) which accompanies the present document.~~

~~[Significant changes have occurred in Web Services technologies and understanding of how to best apply Web Services as a realisation of OSA. These changes are not reflected and therefore this realisation is removed. A future activity may provide a replacement for the content of this annex, reflective of current technology and usage expected.](#)~~

**End of Change in Annex B  
End of Document**

## CHANGE REQUEST

⌘ **29.198-04-1 CR 016** ⌘ rev - ⌘ Current version: **6.3.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Removal of OSA API SCFs description in W3C WSDL		
<b>Source:</b>	⌘ CN5 IBM (Joe McIntyre)		
<b>Work item code:</b>	⌘ OSA2	<b>Date:</b>	⌘ 18/11/2004
<b>Category:</b>	⌘ <b>A</b>	<b>Release:</b>	⌘ REL-6
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

<b>Reason for change:</b>	⌘ OSA WSDL Realization is removed, as the realization is outdated and no suitable replacement is currently available.
<b>Summary of change:</b>	⌘ OSA WSDL Realization is removed.
<b>Consequences if not approved:</b>	⌘ Outdated WSDL Realization will remain in specifications.

<b>Clauses affected:</b>	⌘ Annex B										
<b>Other specs affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> </table>	Y	N		X		X		X	Other core specifications Test specifications O&M Specifications	⌘
Y	N										
	X										
	X										
	X										
<b>Other comments:</b>	⌘										

**Change in Clause Annex B**

**Annex B (informative):  
W3C WSDL Description of Common Call Control Data  
Types**

~~The W3C WSDL representation of this specification is contained in text files (common\_cc\_data.wsdl contained in archive 2919804-1V630WSDL.ZIP) which accompanies the present document.~~

Significant changes have occurred in Web Services technologies and understanding of how to best apply Web Services as a realisation of OSA. These changes are not reflected and therefore this realisation is removed. A future activity may provide a replacement for the content of this annex, reflective of current technology and usage expected.

**End of Change in Annex B  
End of Document**

## CHANGE REQUEST

⌘ **29.198-04-2 CR 029** ⌘ rev - ⌘ Current version: **6.2.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Removal of OSA API SCFs description in W3C WSDL		
<b>Source:</b>	⌘ CN5 IBM (Joe McIntyre)		
<b>Work item code:</b>	⌘ OSA2	<b>Date:</b>	⌘ 18/11/2004
<b>Category:</b>	⌘ <b>A</b>	<b>Release:</b>	⌘ REL-6
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

<b>Reason for change:</b>	⌘ OSA WSDL Realization is removed, as the realization is outdated and no suitable replacement is currently available.
<b>Summary of change:</b>	⌘ OSA WSDL Realization is removed.
<b>Consequences if not approved:</b>	⌘ Outdated WSDL Realization will remain in specifications.

<b>Clauses affected:</b>	⌘ Annex B										
<b>Other specs affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> </table>	Y	N		X		X		X	Other core specifications Test specifications O&M Specifications	⌘
Y	N										
	X										
	X										
	X										
<b>Other comments:</b>	⌘										

## Change in Clause Annex B

### Annex B (informative): W3C WSDL Description of Generic Call Control SCF

~~The W3C WSDL representation of this specification is contained in text files (gce\_data.wsdl, gce\_interfaces.wsdl contained in archive 2919804-2V620WSDL.ZIP) which accompanies the present document.~~

~~[Significant changes have occurred in Web Services technologies and understanding of how to best apply Web Services as a realisation of OSA. These changes are not reflected and therefore this realisation is removed. A future activity may provide a replacement for the content of this annex, reflective of current technology and usage expected.](#)~~

**End of Change in Annex B  
End of Document**

## CHANGE REQUEST

⌘ **29.198-04-3 CR 035** ⌘ rev **-** ⌘ Current version: **6.3.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Removal of OSA API SCFs description in W3C WSDL		
<b>Source:</b>	⌘ CN5 IBM (Joe McIntyre)		
<b>Work item code:</b>	⌘ OSA2	<b>Date:</b>	⌘ 18/11/2004
<b>Category:</b>	⌘ <b>A</b>	<b>Release:</b>	⌘ REL-6
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

<b>Reason for change:</b>	⌘ OSA WSDL Realization is removed, as the realization is outdated and no suitable replacement is currently available.
<b>Summary of change:</b>	⌘ OSA WSDL Realization is removed.
<b>Consequences if not approved:</b>	⌘ Outdated WSDL Realization will remain in specifications.

<b>Clauses affected:</b>	⌘ Annex B										
<b>Other specs affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> </table>	Y	N		X		X		X	Other core specifications Test specifications O&M Specifications	⌘
Y	N										
	X										
	X										
	X										
<b>Other comments:</b>	⌘										



**Change in Clause Annex B**

**Annex B (informative):  
W3C WSDL Description of Multi-Party Call Control SCF**

~~The W3C WSDL representation of this specification is contained in text files (mpec\_data.wsdl, mpec\_interfaces.wsdl contained in archive 2919804-3V630WSDL.ZIP) which accompanies the present document.~~

Significant changes have occurred in Web Services technologies and understanding of how to best apply Web Services as a realisation of OSA. These changes are not reflected and therefore this realisation is removed. A future activity may provide a replacement for the content of this annex, reflective of current technology and usage expected.

**End of Change in Annex B  
End of Document**

## CHANGE REQUEST

⌘ **29.198-04-4 CR 023** ⌘ rev **-** ⌘ Current version: **6.3.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Removal of OSA API SCFs description in W3C WSDL		
<b>Source:</b>	⌘ CN5 IBM (Joe McIntyre)		
<b>Work item code:</b>	⌘ OSA2	<b>Date:</b>	⌘ 18/11/2004
<b>Category:</b>	⌘ <b>A</b>	<b>Release:</b>	⌘ REL-6
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: <b>2</b> (GSM Phase 2) <b>R96</b> (Release 1996) <b>R97</b> (Release 1997) <b>R98</b> (Release 1998) <b>R99</b> (Release 1999) <b>Rel-4</b> (Release 4) <b>Rel-5</b> (Release 5) <b>Rel-6</b> (Release 6)

<b>Reason for change:</b>	⌘ OSA WSDL Realization is removed, as the realization is outdated and no suitable replacement is currently available.
<b>Summary of change:</b>	⌘ OSA WSDL Realization is removed.
<b>Consequences if not approved:</b>	⌘ Outdated WSDL Realization will remain in specifications.

<b>Clauses affected:</b>	⌘ Annex B						
<b>Other specs affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Other core specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Test specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> O&M Specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
<b>Other comments:</b>	⌘						

## Change in Clause Annex B

### Annex B (informative): W3C WSDL Description of Multi-Media Call Control SCF

~~The W3C WSDL representation of this specification is contained in text files (mmces.wsdl contained in archive 2919804-4V630WSDL.ZIP) which accompanies the present document.~~

~~[Significant changes have occurred in Web Services technologies and understanding of how to best apply Web Services as a realisation of OSA. These changes are not reflected and therefore this realisation is removed. A future activity may provide a replacement for the content of this annex, reflective of current technology and usage expected.](#)~~

**End of Change in Annex B  
End of Document**

# CHANGE REQUEST

⌘ **29.198-05 CR 063** ⌘ rev **-** ⌘ Current version: **6.2.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Removal of OSA API SCFs description in W3C WSDL		
<b>Source:</b>	⌘ CN5 IBM (Joe McIntyre)		
<b>Work item code:</b>	⌘ OSA2	<b>Date:</b>	⌘ 18/11/2004
<b>Category:</b>	⌘ <b>A</b>	<b>Release:</b>	⌘ <b>REL-6</b>
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: <b>2</b> (GSM Phase 2) <b>R96</b> (Release 1996) <b>R97</b> (Release 1997) <b>R98</b> (Release 1998) <b>R99</b> (Release 1999) <b>Rel-4</b> (Release 4) <b>Rel-5</b> (Release 5) <b>Rel-6</b> (Release 6)

<b>Reason for change:</b>	⌘ OSA WSDL Realization is removed, as the realization is outdated and no suitable replacement is currently available.
<b>Summary of change:</b>	⌘ OSA WSDL Realization is removed.
<b>Consequences if not approved:</b>	⌘ Outdated WSDL Realization will remain in specifications.

<b>Clauses affected:</b>	⌘ Annex B						
<b>Other specs affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Other core specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Test specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> O&M Specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
<b>Other comments:</b>	⌘						

## Change in Clause Annex B

### Annex B (informative): W3C WSDL Description of User Interaction SCF

~~The W3C WSDL representation of this specification is contained in text files (ui\_interfaces, wsdl and ui\_data.wsdl contained in archive 2919805V620WSDL.ZIP) which accompanies the present document.~~

Significant changes have occurred in Web Services technologies and understanding of how to best apply Web Services as a realisation of OSA. These changes are not reflected and therefore this realisation is removed. A future activity may provide a replacement for the content of this annex, reflective of current technology and usage expected.

**End of Change in Annex B  
End of Document**

## CHANGE REQUEST

⌘ **29.198-06 CR 053** ⌘ rev **-** ⌘ Current version: **6.3.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Removal of OSA API SCFs description in W3C WSDL		
<b>Source:</b>	⌘ CN5 IBM (Joe McIntyre)		
<b>Work item code:</b>	⌘ OSA2	<b>Date:</b>	⌘ 18/11/2004
<b>Category:</b>	⌘ <b>A</b>	<b>Release:</b>	⌘ REL-6
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: <b>2</b> (GSM Phase 2) <b>R96</b> (Release 1996) <b>R97</b> (Release 1997) <b>R98</b> (Release 1998) <b>R99</b> (Release 1999) <b>Rel-4</b> (Release 4) <b>Rel-5</b> (Release 5) <b>Rel-6</b> (Release 6)

<b>Reason for change:</b>	⌘ OSA WSDL Realization is removed, as the realization is outdated and no suitable replacement is currently available.
<b>Summary of change:</b>	⌘ OSA WSDL Realization is removed.
<b>Consequences if not approved:</b>	⌘ Outdated WSDL Realization will remain in specifications.

<b>Clauses affected:</b>	⌘ Annex B						
<b>Other specs affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Other core specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Test specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
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Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
<b>Other comments:</b>	⌘						

## Change in Clause Annex B

### Annex B (informative): W3C WSDL Description of Mobility SCF

~~The W3C WSDL representation of this specification is contained in a text file (mm.wsdl contained in archive 2919806V630WSDL.ZIP) which accompanies the present document.~~

~~[Significant changes have occurred in Web Services technologies and understanding of how to best apply Web Services as a realisation of OSA. These changes are not reflected and therefore this realisation is removed. A future activity may provide a replacement for the content of this annex, reflective of current technology and usage expected.](#)~~

**End of Change in Annex B  
End of Document**

## CHANGE REQUEST

⌘ **29.198-07 CR 033** ⌘ rev **-** ⌘ Current version: **6.2.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Removal of OSA API SCFs description in W3C WSDL		
<b>Source:</b>	⌘ CN5 IBM (Joe McIntyre)		
<b>Work item code:</b>	⌘ OSA2	<b>Date:</b>	⌘ 18/11/2004
<b>Category:</b>	⌘ <b>A</b>	<b>Release:</b>	⌘ REL-6
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

<b>Reason for change:</b>	⌘ OSA WSDL Realization is removed, as the realization is outdated and no suitable replacement is currently available.
<b>Summary of change:</b>	⌘ OSA WSDL Realization is removed.
<b>Consequences if not approved:</b>	⌘ Outdated WSDL Realization will remain in specifications.

<b>Clauses affected:</b>	⌘ Annex B										
<b>Other specs affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> </table>	Y	N		X		X		X	Other core specifications Test specifications O&M Specifications	⌘
Y	N										
	X										
	X										
	X										
<b>Other comments:</b>	⌘										



**Change in Clause Annex B**

**Annex B (informative):  
W3C WSDL Description of Terminal Capabilities SCF**

~~The W3C WSDL representation of this specification is contained in a text file (termcap.wsdl contained in archive 2919807V620WSDL.ZIP) which accompanies the present document.~~

~~[Significant changes have occurred in Web Services technologies and understanding of how to best apply Web Services as a realisation of OSA. These changes are not reflected and therefore this realisation is removed. A future activity may provide a replacement for the content of this annex, reflective of current technology and usage expected.](#)~~

**End of Change in Annex B  
End of Document**

## CHANGE REQUEST

⌘ **29.198-08 CR 039** ⌘ rev **-** ⌘ Current version: **6.2.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Removal of OSA API SCFs description in W3C WSDL		
<b>Source:</b>	⌘ CN5 IBM (Joe McIntyre)		
<b>Work item code:</b>	⌘ OSA2	<b>Date:</b>	⌘ 18/11/2004
<b>Category:</b>	⌘ <b>A</b>	<b>Release:</b>	⌘ REL-6
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

<b>Reason for change:</b>	⌘ OSA WSDL Realization is removed, as the realization is outdated and no suitable replacement is currently available.
<b>Summary of change:</b>	⌘ OSA WSDL Realization is removed.
<b>Consequences if not approved:</b>	⌘ Outdated WSDL Realization will remain in specifications.

<b>Clauses affected:</b>	⌘ Annex B						
<b>Other specs affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Other core specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Test specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> O&M Specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
<b>Other comments:</b>	⌘						

**Change in Clause Annex B**

**Annex B (informative):  
W3C WSDL Description of Data Session Control SCF**

~~The W3C WSDL representation of this specification is contained in a text file (dsc.wsdl contained in archive 2919808V620WSDL.ZIP) which accompanies the present document.~~

~~[Significant changes have occurred in Web Services technologies and understanding of how to best apply Web Services as a realisation of OSA. These changes are not reflected and therefore this realisation is removed. A future activity may provide a replacement for the content of this annex, reflective of current technology and usage expected.](#)~~

**End of Change in Annex B  
End of Document**

# CHANGE REQUEST

⌘ **29.198-11 CR 034** ⌘ rev **-** ⌘ Current version: **6.2.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Removal of OSA API SCFs description in W3C WSDL		
<b>Source:</b>	⌘ CN5 IBM (Joe McIntyre)		
<b>Work item code:</b>	⌘ OSA2	<b>Date:</b>	⌘ 18/11/2004
<b>Category:</b>	⌘ <b>A</b>	<b>Release:</b>	⌘ REL-6
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

<b>Reason for change:</b>	⌘ OSA WSDL Realization is removed, as the realization is outdated and no suitable replacement is currently available.
<b>Summary of change:</b>	⌘ OSA WSDL Realization is removed.
<b>Consequences if not approved:</b>	⌘ Outdated WSDL Realization will remain in specifications.

<b>Clauses affected:</b>	⌘ Annex B										
<b>Other specs affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> </table>	Y	N		X		X		X	Other core specifications Test specifications O&M Specifications	⌘
Y	N										
	X										
	X										
	X										
<b>Other comments:</b>	⌘										

**Change in Clause Annex B**

**Annex B (informative):  
W3C WSDL Description of Account Management SCF**

~~The W3C WSDL representation of this specification is contained in a text file (am.wsdl contained in archive 2919811V620WSDL.ZIP) which accompanies the present document.~~

Significant changes have occurred in Web Services technologies and understanding of how to best apply Web Services as a realisation of OSA. These changes are not reflected and therefore this realisation is removed. A future activity may provide a replacement for the content of this annex, reflective of current technology and usage expected.

**End of Change in Annex B  
End of Document**

## CHANGE REQUEST

⌘ **29.198-12 CR 035** ⌘ rev **-** ⌘ Current version: **6.2.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Removal of OSA API SCFs description in W3C WSDL		
<b>Source:</b>	⌘ CN5 IBM (Joe McIntyre)		
<b>Work item code:</b>	⌘ OSA2	<b>Date:</b>	⌘ 18/11/2004
<b>Category:</b>	⌘ <b>A</b>	<b>Release:</b>	⌘ REL-6
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

<b>Reason for change:</b>	⌘ OSA WSDL Realization is removed, as the realization is outdated and no suitable replacement is currently available.
<b>Summary of change:</b>	⌘ OSA WSDL Realization is removed.
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Y	N										
	X										
	X										
	X										
<b>Other comments:</b>	⌘										

**Change in Clause Annex B**

**Annex B (informative):  
W3C WSDL Description of Charging SCF**

~~The W3C WSDL representation of this specification is contained in a text file (es.wsdl contained in archive 2919812V620WSDL.ZIP) which accompanies the present document.~~

Significant changes have occurred in Web Services technologies and understanding of how to best apply Web Services as a realisation of OSA. These changes are not reflected and therefore this realisation is removed. A future activity may provide a replacement for the content of this annex, reflective of current technology and usage expected.

**End of Change in Annex B  
End of Document**

## CHANGE REQUEST

⌘ **29.198-15 CR 001** ⌘ rev **-** ⌘ Current version: **6.0.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Removal of OSA API SCFs description in W3C WSDL		
<b>Source:</b>	⌘ CN5 IBM (Joe McIntyre)		
<b>Work item code:</b>	⌘ OSA3	<b>Date:</b>	⌘ 18/11/2004
<b>Category:</b>	⌘ <b>F</b>	<b>Release:</b>	⌘ REL-6
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: <b>2</b> (GSM Phase 2) <b>R96</b> (Release 1996) <b>R97</b> (Release 1997) <b>R98</b> (Release 1998) <b>R99</b> (Release 1999) <b>Rel-4</b> (Release 4) <b>Rel-5</b> (Release 5) <b>Rel-6</b> (Release 6)

<b>Reason for change:</b>	⌘ OSA WSDL Realization is removed, as the realization is outdated and no suitable replacement is currently available.
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	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Test specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
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Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
<b>Other comments:</b>	⌘						



## Change in Clause Annex B

### Annex B (informative): W3C WSDL description of Multi-Media Messaging SCF

~~The W3C WSDL representation of this interface specification is contained in a text file (mmm.wsdl contained in archive 2919815V600WSDL.ZIP) which accompanies the present document.~~

Significant changes have occurred in Web Services technologies and understanding of how to best apply Web Services as a realisation of OSA. These changes are not reflected and therefore this realisation is removed. A future activity may provide a replacement for the content of this annex, reflective of current technology and usage expected.

**End of Change in Annex B  
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