3GPP TSG CN Plenary Meeting #26 08-10 December 2004, Athens, GREECE

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During CN5#28 (Aug 2004), it was established that the WSDL realisation of the OSA 29.198-x was outdated.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	Α	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	Α	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	Α	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	Α	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	Α	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	Α	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	Α	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	Α	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	Α	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	Α	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	Α	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	Α	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	Α	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

CR-Form-v7 **CHANGE REQUEST**

					• -					
*	29.19	8-01 C	R <mark>039</mark>	жre	v -	Ħ	Current vers	sion: 5	.7.0	Ж
For <u>HELP</u> o	on using t	his form,	see bottom	of this page	or look	at the	pop-up tex	t over the	e ж syr	nbols.
Proposed chang	Proposed change affects: UICC apps# ME Radio Access Network Core Network X									
Title:	Ж Rei	moval of (OSA API SC	Fs descript	ion in W	/3C W	'SDL			
Source:	ж <mark>СN</mark>	5 IBM (Jo	<mark>e McIntyre</mark>)							
Work item code	e: # OS	A2					Date: ₩	18/11	/2004	
Category:	Deta	F (correcting A (corresponding B) (addition C) (function D) (editorial illed explanation B)	oonds to a co n of feature), nal modificat al modificatio	orrection in an ion of feature n) above catego)		Release: # Use <u>one</u> of 2 e) R96 R97 R98 R99 Rel-4 Rel-5 Rel-6		wing rele Phase 2) e 1996) e 1997) e 1998) e 1999) e 4)	eases:
Reason for cha	nge: ૠ			ation is remo			ealization is	outdated	d and no	0
Summary of ch	ange: ૠ		SDL Realiza		-		erences to W	/SDL in o	other do	ocument
Consequences not approved:	if ૠ	Outdate	d OSA WS	DL Realizati	on will r	emain	in specifica	itions.		
Clauses affecte	e d : #	5, 7.9, A	nnex B							
Other specs affected:	Ж	X Te	ther core sp est specifica &M Specific		ж					
Other comment	ts: #									

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 JavaTM 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. JavaTM 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.csapi.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:

```
oxmlns:<component name>='http://www.csapi.org/<component name>/wsdl'
```

oxmlns:<component name>xsd='http://www.csapi.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.csapi.org/<imported component name>/wsdl'
- -- xmlns:<imported component name>xsd='http://www.csapi.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:

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:

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:

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:

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:

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: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:
<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 << Sequence Of Data Elements >>
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"</pre>
 <del><xsd:sequence></del>
  <del><xsd:element</del>
      Name="Role-Name"
     type="Role-Type" />
    <del><xsd:element</del>
      Name="Role-Name"
     type="Role-Type" />
    <xsd:element</pre>
      Name="Role-Name"
     type="Role-Type" />
 <del></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" />
            -<<NumberedSetOfDataElements>>
The UML NumberedSetOfDataElements data type for sequences types contains the following attributes:
  -Name
  - Implementation Type
This type would then map to the following XML Schema construct:
<xsd:complexType name="Name">
   <xsd:sequence>
    <xsd:element</pre>
        name="Name"
    type="ImplementationType"
     minOccurs="0"
        maxOccurs="unbounded" />
   </xsd:sequence>
</xsd:complexType>
B.4.1.6 << Tagged Choice Of Data Elements >>
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">
   <del><xsd:sequence></del>
     <xsd:element name="SwitchName" type="SwitchType" />
```

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:

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">
```

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:

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:

```
<fault message="Operation-Exception-Name" />
  <del>≺/operation></del>
</pertType>
This type would also then map into the following WSDL binding element:
<br/>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.csapi.org/am/Name#Operation-Name"/>
   <del> ≺input></del>
  namespace="http://www.csapi.org/Module-Name/wsdl"
  -------<soap:header message="osaxsd:ObjRefHeader" part="header" />
 </input>
<del><output></del>
 encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
 namespace=" http://www.csapi.org/Module-Name/wsdl "
    use="encoded"/>
 </output>
  <del><fault></del>
           <soap:fault name="Operation-Exception-Name"</pre>
   encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
 namespace="http://www.csapi.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
</definitions>
```

D (editorial modification)

be found in 3GPP TR 21.900.

Other comments:

 \mathfrak{R}

Detailed explanations of the above categories can

(Release 1999)

(Release 4)

(Release 5)

(Release 6)

R99

Rel-4

Rel-5

Rel-6

CHANGE REQUEST # 29.198-02 CR 049 # 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 \mathbb{H} symbols. ME Radio Access Network Core Network X Proposed change affects: UICC apps# Title: ★ Removal of OSA API SCFs description in W3C WSDL Source: 策 CN5 IBM (Joe McIntyre) Work item code:

SA2 Date: 第 18/11/2004 Category: \mathfrak{R} Release:

REL-5 Use one of the following categories: Use one of the following releases: F (correction) (GSM Phase 2) 2 A (corresponds to a correction in an earlier release) R96 (Release 1996) **B** (addition of feature), R97 (Release 1997) **C** (functional modification of feature) (Release 1998) R98

Reason for change:	Ж	OSA WSDL Realization is removed, as the realization is outdated and no suitable replacement is currently available.
Summary of change	<i>:</i> Ж	OSA WSDL Realization is removed.
,		
Canagayanasa if	مه	Outdated WSDI Regulation will remain in appointment
Consequences if	њ	Outdated WSDL Realization will remain in specifications.
not approved:		
Clauses affected:	\mathfrak{H}	Annex B
	Ī	YN
		<u>- 1 1 1 1 1 1 1 1 1 1 </u>
Other specs	\mathfrak{R}	X Other core specifications
affected:		X Test specifications
	ŀ	X O&M Specifications
	L	Odivi Specifications

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.

CR-Form-v7 **CHANGE REQUEST**

*	29.19	8-03 CR	127	≋rev	#	Current vers	5.8.0	¥
For <u>HELP</u> o	For <u>HELP</u> on using this form, see bottom of this page or look at the pop-up text over the 光 symbols.							
Proposed chan	Proposed change affects: UICC apps# ME Radio Access Network Core Network X							
Title:	器 Rei	moval of OS	A API SCFs o	description	in W3C V	VSDL		
Source:	₩ <mark>CN</mark>	5 IBM (Joe N	/IcIntyre)					
Work item code	e: ೫ OS	A2				Date: ૠ	18/11/2004	
Category:	₩ F					Release: ೫	REL-5	
Reason for cha Summary of ch Consequences not approved:	Deta be fo nnge: 業	F (correction) A (correspon B (addition of C (functional D (editorial milled explanation and in 3GPP) OSA WSD suitable rep	ds to a correctife feature), modification of the above TR 21.900. L Realization of the above TR 21.900.	ion in an ear feature) re categories is removed currently ar is removed	d, as the vailable.	Use <u>one</u> of 2 e) R96 R97 R98 R99 Rel-4 Rel-5 Rel-6	REL-5 Ithe following rel (GSM Phase 2) (Release 1996) (Release 1997) (Release 1998) (Release 1999) (Release 4) (Release 5) (Release 6)	
Clauses affecte	ed: ₩	Annex B						
Other specs affected:	Ж	Y N Othe	r core specific specifications Specification	3	¥			
Other commen	ts: ₩							

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.

CR-Form-v7 **CHANGE REQUEST**

For HELP on using this form, see bottom of this page or look at the pop-up text over the \$\pi\$ symbols Proposed change affects: UICC apps\$\pi\$ ME Radio Access Network Core Network: Title: \$\pi\$ Removal of OSA API SCFs description in W3C WSDL Source: \$\pi\$ CN5 IBM (Joe McIntyre) Work item code: \$\pi\$ OSA2 Date: \$\pi\$ 18/11/2004 Category: \$\pi\$ F Use one of the following categories: F (correction) Divided The pop-up text over the \$\pi\$ symbols Symbols Symbols To represent the \$\pi\$ Symbols Symbols Symbols To represent the \$\pi\$ Symbols Symbols Symbols Symbols To represent the \$\pi\$ Symbols Symb								
Proposed change affects: UICC apps₩ ME Radio Access Network Core Network Title: ₩ Removal of OSA API SCFs description in W3C WSDL Source: ℋ CN5 IBM (Joe McIntyre) Work item code: ℋ OSA2 Date: ℋ 18/11/2004 Category: ℋ F Release: ℋ REL-5 Use one of the following categories: Use one of the following releases ℒ (GSM Phase 2)	光	on: 5.7.0 **	Current version	- #	≋rev	4-1 CR <mark>015</mark>	. <mark>198-04</mark> -	[#] 29.1
Title:	For <u>HELP</u> on using this form, see bottom of this page or look at the pop-up text over the x symbols.							
Source:	Proposed change affects: UICC apps# ME Radio Access Network Core Network X							
Work item code: ■ OSA2 Date: ■ 18/11/2004 Release: ■ REL-5 Use one of the following categories: ■ Use one of the following categories: ■ Correction ■ Company of the following release: ■ Company of the foll			/SDL	in W3C W	CFs descriptio	oval of OSA API SCI	光 Remov	itle: អ
Category: # F Use one of the following categories: Use one of the following release: # REL-5 Use one of the following release: Use one of the following release: # (GSM Phase 2))	IBM (Joe McIntyre)	∺ CN5 IE	Source: #
Use <u>one</u> of the following categories: Use <u>one</u> of the following release		18/11/2004	Date: ♯			2	₩ OSA2	Vork item code: ℍ
A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) P (editorial modification) P (to the splanations of the above categories can be found in 3GPP TR 21.900. R96 (Release 1997) R97 (Release 1998) R98 (Release 1998) R99 (Release 1999) R99 (Release 1996)	ses:	the following release (GSM Phase 2) (Release 1996) (Release 1997) (Release 1998) (Release 1999) (Release 4) (Release 5)	Use <u>one</u> of the 2 (e) R96 (e) R97 (football (orrection in an e tion of feature) on) above categor	(correction) (corresponds to a con (addition of feature), (functional modification (editorial modification) ed explanations of the a	Use <u>one</u> F (i A (B (C (D (Category: #
Reason for change: SA WSDL Realization is removed, as the realization is outdated and no suitable replacement is currently available.		utdated and no	ealization is o					Reason for chang
Summary of change: # OSA WSDL Realization is removed.				d.	ation is remov	OSA WSDL Realizat	nge: 🛱 🔼	Summary of chan
Consequences if # Outdated WSDL Realization will remain in specifications. not approved:			pecifications.	emain in sp	ealization will	Outdated WSDL Rea	f # O	
Clauses affected: # Annex B						Annex B	/: ₩ A	Clauses affected:
Other specs affected: X				*	ations	/ N X Other core spe X Test specificat	Υ	Other specs

Clauses affected:	# Annex R
	YN
Other specs	X Other core specifications 第
affected:	X Test specifications
	X O&M Specifications
Other comments:	X Control of the cont

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.

CR-Form-v7 **CHANGE REQUEST**

[#] 29.1	98-04-2 CR 028 # rev - #	Current version: 5.8.0 [₩]						
For <u>HELP</u> on u	For <u>HELP</u> on using this form, see bottom of this page or look at the pop-up text over the x symbols.							
Proposed change	Proposed change affects: UICC apps# ME Radio Access Network Core Network X							
Title: ⋇	Removal of OSA API SCFs description in W3C W	/SDL						
Source: #	CN5 IBM (Joe McIntyre)							
Work item code: 光	OSA2	<i>Date</i> :						
Category: 米	F Use one 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 TR 21.900.	Release: # REL-5 Use one of the following releases: 2 (GSM Phase 2) e) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)						
Reason for change	OSA WSDL Realization is removed, as the resultable replacement is currently available.	ealization is outdated and no						
Summary of chang	ge: 第 OSA WSDL Realization is removed.							
Consequences if not approved:	第 Outdated WSDL Realization will remain in sp	pecifications.						
Clauses affected:	₩ Annex B							
Ciauses arrected:	m AIIIEA D							
Other specs affected:	Y N X Other core specifications Test specifications O&M Specifications							
Other comments:	×							

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

The W3C WSDL representation of this specification is contained in text files (gcc_data.wsdl, gcc_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.

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 X

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

Reason for change:	₩	OSA WSDL Realization is removed, as the realization is outdated and no suitable replacement is currently available.
Summary of change: #		OSA WSDL Realization is removed.
Consequences if not approved:	×	Outdated WSDL Realization will remain in specifications.
Clauses affected:	×	Annex B

Clauses affected:	# Annex B
Other specs affected:	Y N X Other core specifications X Test specifications O&M Specifications
Other comments:	₩

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

The W3C WSDL representation of this specification is contained in text files (mpcc_data.wsdl, mpcc_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.

CR-Form-v7 **CHANGE REQUEST**

[#] 29.1	98-04-4 CR 022 #rev - #	Current version: 5.8.0 *						
For <u>HELP</u> on using this form, see bottom of this page or look at the pop-up text over the x symbols.								
Proposed change	Proposed change affects: UICC apps# ME Radio Access Network Core Network X							
Title: ₩	Removal of OSA API SCFs description in W3C W3	SDL						
Source: #	CN5 IBM (Joe McIntyre)							
Work item code: ₩	OSA2	Date:						
Category:	Use one 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 TR 21.900.	Release: # REL-5 Use one 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)						
Reason for change	e: # OSA WSDL Realization is removed, as the re suitable replacement is currently available.	ealization is outdated and no						
Summary of chang	ge: 第 OSA WSDL Realization is removed.							
Consequences if not approved:	第 Outdated WSDL Realization will remain in spe	ecifications.						
Clauses affected:	₩ Annex B							
Ciauses ariected:	策 Annex B							
Other specs affected:	Y N X Other core specifications X Test specifications O&M Specifications							
Other comments:	¥							

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

The W3C WSDL representation of this specification is contained in text files (mmccs.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.

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 X

Title:	\mathfrak{H}	Removal of OSA API SCFs description in W3C W3	SDL	
Source:	\mathfrak{H}	CN5 IBM (Joe McIntyre)		
		,		
Work item code	<i>:</i> Ж	OSA2	Date: ₩	18/11/2004
Category:	\mathfrak{H}	F	Release: ₩	REL-5
		Use <u>one</u> of the following categories:	Use <u>one</u> of	the following releases:
		F (correction)	2	(GSM Phase 2)
		A (corresponds to a correction in an earlier release)	R96	(Release 1996)
		B (addition of feature),		(Release 1997)
		C (functional modification of feature)	R98	(Release 1998)
		D (editorial modification)	R99	(Release 1999)
		Detailed explanations of the above categories can	Rel-4	(Release 4)
		be found in 3GPP TR 21.900.	Rel-5	(Release 5)
			Rel-6	(Release 6)

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

Clauses affected:	₩ Annex B				
Other specs affected:	Y N X Other core specifications Test specifications X O&M Specifications				
Other comments:	光				

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.

be found in 3GPP TR 21.900.

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. ME Radio Access Network Core Network X Proposed change affects: UICC apps# Title: ★ Removal of OSA API SCFs description in W3C WSDL Source: 策 CN5 IBM (Joe McIntyre) Work item code:

SA2 Date: 第 18/11/2004 Category: \mathfrak{R} Release:

REL-5 Use one of the following categories: Use one of the following releases: F (correction) (GSM Phase 2) 2 A (corresponds to a correction in an earlier release) R96 (Release 1996) **B** (addition of feature), R97 (Release 1997) **C** (functional modification of feature) R98 (Release 1998) **D** (editorial modification) (Release 1999) R99 Detailed explanations of the above categories can Rel-4 (Release 4)

Reason for change:	OSA WSDL Realization is removed, as the realization is outdated and no suitable replacement is currently available.				
Summary of change:	OSA WSDL Realization is removed.				
Consequences if not approved:	Outdated WSDL Realization will remain in specifications.				
Clauses affected:	★ Annex B				
Other specs affected:	Y N X Other core specifications				
	X O&M Specifications				
Other comments:	第一				

Rel-5

Rel-6

(Release 5)

(Release 6)

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.

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. ME Radio Access Network Core Network X Proposed change affects: UICC apps# Title: ★ Removal of OSA API SCFs description in W3C WSDL Source: 策 CN5 IBM (Joe McIntyre) Work item code:

SA2 Date: 第 18/11/2004 Category: \mathfrak{R} Release:

REL-5 Use one of the following categories: Use one of the following releases: F (correction) (GSM Phase 2) 2 A (corresponds to a correction in an earlier release) R96 (Release 1996) **B** (addition of feature), R97 (Release 1997) **C** (functional modification of feature) R98 (Release 1998) **D** (editorial modification) (Release 1999) R99 Detailed explanations of the above categories can Rel-4 (Release 4) be found in 3GPP TR 21.900. Rel-5 (Release 5)

Reason for change:	OSA WSDL Realization is removed, as the realization is outdated and no suitable replacement is currently available.				
Summary of change	e: 第 OSA WSDL Realization is removed.				
Consequences if not approved:	Outdated WSDL Realization will remain in specifications.				
Clauses affected:	₩ Annex B				
Other specs affected:	Y N X Other core specifications X Test specifications X O&M Specifications				
Other comments:	$m{lpha}$				

Rel-6

(Release 6)

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.

CHANGE REQUEST # 29.198-08 CR 038 # rev - # Current version: 5.7.0

For <u>HELP</u> on using this form, see bottom of this page or look at the pop-up text over the **%** symbols. ME Radio Access Network Core Network X Proposed change affects: UICC apps# Title: ★ Removal of OSA API SCFs description in W3C WSDL Source: 策 CN5 IBM (Joe McIntyre) Work item code:

SA2 Date: 第 18/11/2004 Category: \mathfrak{R} Release:

REL-5 Use one of the following categories: Use one of the following releases: F (correction) (GSM Phase 2) 2 A (corresponds to a correction in an earlier release) R96 (Release 1996) **B** (addition of feature), R97 (Release 1997) **C** (functional modification of feature) R98 (Release 1998) **D** (editorial modification) (Release 1999) R99 Detailed explanations of the above categories can Rel-4 (Release 4) be found in 3GPP TR 21.900. Rel-5 (Release 5)

Reason for change:	SA WSDL Realization is removed, as the realization is outdated and no suitable replacement is currently available.					
Summary of change:	OSA WSDL Realization is removed.					
Consequences if not approved:	Outdated WSDL Realization will remain in specifications.					
Clauses affected:	# Annex B					
	YN					
Other specs affected:	X Other core specifications					
Other comments:	K					

Rel-6

(Release 6)

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.

CR-Form-v7 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 X

Title: # Removal of OSA API SCFs description in W3C WSDL

		D 1 (001 101 005 1 1 1 1 1 1 1 100 11	(OD)	
Title:	ж	Removal of OSA API SCFs description in W3C W	/SDL	
Source:	\aleph	CN5 IBM (Joe McIntyre)		
		• ,		
Work item code	∷ ₩	OSA2	Date: ₩	18/11/2004
Category:	\mathfrak{H}	F	Release: %	REL-5
		Use <u>one</u> of the following categories:	Use <u>one</u> of	the following releases:
		F (correction)	2	(GSM Phase 2)
		A (corresponds to a correction in an earlier release	e) R96	(Release 1996)
		B (addition of feature),	R97	(Release 1997)
		C (functional modification of feature)	R98	(Release 1998)
		D (editorial modification)	R99	(Release 1999)
		Detailed explanations of the above categories can	Rel-4	(Release 4)
		be found in 3GPP TR 21.900.	Rel-5	(Release 5)
			Rel-6	(Release 6)

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

Clauses affected:	器 Annex B
Other specs affected:	Y N X Other core specifications ₩ X Test specifications X O&M Specifications
Other comments:	₩

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.

CR-Form-v7 **CHANGE REQUEST**

¥ 29	<mark>.198-12</mark>	CR <mark>034</mark>	≋rev	#	Current vers	5.7.0	#
For <u>HELP</u> on using this form, see bottom of this page or look at the pop-up text over the % symbols.							
Proposed change	affects: U	IICC apps#	ME	Radio Ac	cess Netwo	rk Core Ne	twork X
Title: ૠ	Removal	of OSA API SCF	s description i	n W3C W	SDL		
Source: #	CN5 IBM ((Joe McIntyre)					
Work item code: ₩	OSA2				Date: ℜ	18/11/2004	
Category: Ж	F				Release: %	REL-5	
	Use one of the F (correct A (correct B (addl. C (fund D (edite Detailed exp	the following categorection) esponds to a correlition of feature), etional modification orial modification) lanations of the ab BGPP TR 21.900.	ection in an earl		Use <u>one</u> of 2	the following rele (GSM Phase 2) (Release 1996) (Release 1997) (Release 1998) (Release 4) (Release 5) (Release 6)	ases:
Reason for change		WSDL Realization of the replacement in the second contract of the se			ealization is	outdated and no)
Summary of chang	je:♯ <mark>OSA</mark>	WSDL Realization	on is removed	l.			
Consequences if not approved:	₩ Outda	ated WSDL Reali	ization will rer	nain in sp	ecifications.		
Clauses affected:	器 Anne	хВ					
Other specs affected:		Other core spec Test specificatio O&M Specificati	ns	*			
Other comments:	¥						

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

The W3C WSDL representation of this specification is contained in a text file (cs.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.

CHANGE REQUEST # 29.198-01 CR 040 # rev - # Current version: 6.2.0

Category: Release:

REL-6 Use one of the following categories: Use one of the following releases: F (correction) (GSM Phase 2) 2 A (corresponds to a correction in an earlier release) R96 (Release 1996) **B** (addition of feature). R97 (Release 1997) **C** (functional modification of feature) (Release 1998) R98 **D** (editorial modification) (Release 1999) R99 Detailed explanations of the above categories can (Release 4) Rel-4 be found in 3GPP TR 21.900. Rel-5 (Release 5) Rel-6 (Release 6)

Reason for change:

OSA WSDL Realization is removed, as the realization is outdated and no suitable replacement is currently available.

Summary of change:
OSA WSDL Realization is removed, and references to WSDL in other document sections.

Consequences if mot approved:

Outdated OSA WSDL Realization will remain in specifications.

Clauses affected: # 5, 7.9, Annex B

Other specs # X Other core specifications # Test specifications
Other comments: #

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 JavaTM 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. JavaTM 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.2Proposed 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.csapi.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: oxmlns:<component name>='http://www.csapi.org/<component name>/wsdl' oxmlns:<component name>xsd='http://www.csapi.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.csapi.org/<imported component name>/wsdl' -xmlns:<imported component name>xsd='http://www.csapi.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.csapi.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.csapi.org/am/wsdl' -xmlns:amxsd='http://www.csapi.org/am/schema' -xmlns:osa='http://www.csapi.org/osa/wsdl' xmlns:osaxsd='http://www.csapi.org/osa/schema'> <import namespace='http://www.csapi.org/osa/wsdl'</pre> -location='osa.wsdl'/> **B.3Object 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 sufficientifies 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:
<pre><xsd:simpletype name="Objectref"></xsd:simpletype></pre>
- <xsd:restriction base="xsd:string"></xsd:restriction>
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:simpletype>
- <xsd:restriction base="osaxsd:ObjectRef"></xsd:restriction>
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"></message>
✓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:
<a "<="" encoding="" href="https://documents.com/binding/type='am:IpAccountManager'></td></tr><tr><td>— <soap:binding style='rpc' transport='http://schemas.xmlsoap.org/soap/http' /></td></tr><tr><td>— <operation name='createNotification'></td></tr><tr><td><soap:operation soapAction='http://www.csapi.org/am/IpAccountManager#createNotification' /></td></tr><tr><td></td></tr><tr><td>────<soap:body</td></tr><tr><td>encodingStyle=" http:="" schemas="" soap="" td="" xmlsoap.org="">
namespace = 'http://www.esapi.org/am.wsdl'
use='encoded' />

message='osaxsd:ObjectRefHeader' part='header' />
— √input>

```
B.4Mapping 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>
</r></xs:simpleType>
B.4.1.2 << Name Value Pair>>
The UML Name Value Pair 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:
< <u>xsd:complexType name="Name"</u>

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

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

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

B.4.1.4
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:
Complete Tong and "North Plane" have "I was to the Tong of the

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:
<pre><xsd:complextype name="Name"></xsd:complextype></pre>
-<xsd:sequence></xsd:sequence>

name="Name"
— type="ImplementationType"
minOccurs="0"
maxOccurs="unbounded" />
—
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:
<pre><xsd:complextype name="Name"></xsd:complextype></pre>

<pre> <xsd:element name="SwitchName" type="SwitchType"></xsd:element> </pre>
<pre><xsd:element name="Role-Name" type="Role-Type"></xsd:element></pre>
<pre><xsd:element name="Role-Name" type="Role-Type"></xsd:element></pre>

<pre><xsd:element name="Role-Name" type="Role-Type"></xsd:element></pre>
//ved/choice>

```
</xsd:sequence>
</re>
B.5Mapping 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">
<del>-<part</del>
   name="Parameter-Name"
   type="Parameter-Type"/>
<del>--<part</del>
  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"></message>

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"></message>
<part< del=""></part<>
name="ExceptionType"
type="osaxsd:TpInt32"/>
<part< del=""></part<>
name="ExtraInformation"
type="osaxsd:TpString"/>
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:
<pre><porttype name="Name"></porttype></pre>

name="Operation-Name''
<pre><input message="Operation-Name"/></pre>
<pre><output message="Operation-NameResponse"></output></pre>
<pre><fault message="Operation Exception Name"></fault></pre>

<pre><fault message="Operation Exception Name"></fault></pre>
<!--</del-->

name="Operation-Name"
<pre><input message="Operation-Name"/></pre>
<pre><output message="Operation-NameResponse"></output></pre>
<pre><fault message="Operation-Exception Name" name="Operation-Exception-Name"></fault></pre>

<pre><fault message="Operation Exception Name"></fault></pre>

This type would also then map into the following WSDL binding element:
< <u>binding</u>
— name="Interface-NameBinding"
— type="Interface-Name">
— <soap:binding style="rpc" transport="http://schemas.xmlsoap.org/soap/http"></soap:binding>
<soap:operation soapaction="http://www.csapi.org/am/Name#Operation-Name"></soap:operation>

encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
namespace="http://www.esapi.org/Module-Name/wsdl"
use="encoded"/>
<soap:header message="osaxsd:ObjRefHeader" part="header"></soap:header>
—————————————————————————————————————

encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
namespace=" http://www.csapi.org/Module-Name/wsdl "
use="encoded"/>
──
──<fault></fault>
encodingStyle="http://sehemas.xmlsoap.org/soap/encoding/"
namespace="http://www.csapi.org/Module-Name/wsdl"
use="encoded"/>

additional fault elements

additional operation elements

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"></service>
<pre></pre>
<pre> <soap:address location="http://{Service Address}"></soap:address> </pre>

— additional port elements

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 \mathbb{H} symbols. ME Radio Access Network Core Network X Proposed change affects: UICC apps# Title: ★ Removal of OSA API SCFs description in W3C WSDL Source: 策 CN5 IBM (Joe McIntyre) Work item code:

SA2 Date: 第 18/11/2004 Category: Release:

REL-6 Use one of the following categories: Use one of the following releases: F (correction) (GSM Phase 2) 2 A (corresponds to a correction in an earlier release) R96 (Release 1996) **B** (addition of feature), R97 (Release 1997) **C** (functional modification of feature) (Release 1998) R98 **D** (editorial modification) (Release 1999) R99

Rel-4

Rel-5

Rel-6

(Release 4)

(Release 5)

(Release 6)

Detailed explanations of the above categories can

be found in 3GPP TR 21.900.

Other comments:

 \mathfrak{R}

Declination is removed, so the realization is syndeted and no			
OSA WSDL Realization is removed, as the realization is outdated and no			
lacement is currently available.			
,			
. Realization is removed.			
SDL Realization will remain in specifications.			
core specifications #			
core specifications			

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.

¥ 2	9.198	3 <mark>-03</mark> CR	128	≋rev	- 9	€ Currer	nt version:	6.2.0	#
For <u>HELP</u> on	using t	his form, se	e bottom of t	his page or	look at	the pop-u	ıp text ove	r the ℋ sy	mbols.
Proposed change	e affect	s: UICC	apps#	ME	Radio	Access N	Network	Core N	etwork X
Title:	₩ Rer	noval of OS	A API SCFs	description	in W3C	WSDL			
Source:	₩ CN	5 IBM (Joe I	McIntyre)						
Work item code: 3	₩ OS/	42				Da	ate:	/11/2004	
Category:	₩ A					Relea	se: # RE	-L-6	
Reason for chang	Use of the state o	F (correction A (correspon B (addition o C (functional D (editorial n led explanation und in 3GPP OSA WSD	ds to a correct feature), modification (nodification) ons of the about 121.900.	ction in an ear	s can	Use 2 ase) R R R R R R	one of the form (GSI) 96 (Reli) 97 (Reli) 98 (Reli) 99 (Reli) el-4 (Reli) el-5 (Reli) el-6 (Reli	ollowing re M Phase 2, ease 1996, ease 1998, ease 1999, ease 4) ease 5) ease 6)))))
Summary of chan	nge: ₩	OSA WSD	L Realization	n is remove	d.				
Consequences if not approved:	æ	Outdated \	WSDL Realiz	zation will re	main ir	specifica	tions.		
Clauses affected:	: X	Annex B							
Other specs affected:	¥	X Test	r core specif specificatior I Specificatio	ns	*				
Other comments:	. 40								

Clauses affected:	# Annex B
Other specs affected:	Y N X Other core specifications X Test specifications O&M Specifications
Other comments:	¥

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.

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 X

Title:	\mathfrak{H}	Removal of OSA API SCFs description in W3C WSDL				
Source:	\mathfrak{H}	CN5 IBM (Joe McIntyre)				
		• ,				
Work item code	<i>:</i> Ж	OSA2	Date: ₩	18/11/2004		
Category:	\mathfrak{H}	A	Release: ₩	REL-6		
		Jse <u>one</u> of the following categories:		the following releases:		
		F (correction)	2	(GSM Phase 2)		
		A (corresponds to a correction in an earlier release	e) R96	(Release 1996)		
		B (addition of feature),		(Release 1997)		
		C (functional modification of feature)	R98	(Release 1998)		
		D (editorial modification)	R99	(Release 1999)		
		Detailed explanations of the above categories can	Rel-4	(Release 4)		
		pe found in 3GPP TR 21.900.	Rel-5	(Release 5)		
			Rel-6	(Release 6)		

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

Clauses affected:	策 Annex B
Other specs affected:	Y N X Other core specifications Test specifications X O&M Specifications
Other comments:	**************************************

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.

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 X

Title:	\mathbb{H}	Re	moval of OSA API SCFs descrip	tion in W3C W	SDL	
Source:	\mathfrak{H}	CN	I5 IBM (Joe McIntyre)			
Work item code	:₩	OS	SA2		Date: ₩	18/11/2004
Category:	\mathfrak{H}	Α		ı	Release: ₩	REL-6
		Use	one of the following categories:		Use <u>one</u> of	the following releases:
			F (correction)		2	(GSM Phase 2)
			A (corresponds to a correction in a	n earlier release)	R96	(Release 1996)
			B (addition of feature),		R97	(Release 1997)
			C (functional modification of feature	e)	R98	(Release 1998)
			D (editorial modification)		R99	(Release 1999)
		Deta	illed explanations of the above cated	gories can	Rel-4	(Release 4)
		be fo	ound in 3GPP <u>TR 21.900</u> .		Rel-5	(Release 5)
					Rel-6	(Release 6)

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

Clauses affected:	₩ Annex B
Other specs affected:	Y N X Other core specifications Test specifications O&M Specifications
Other comments:	x

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

The W3C WSDL representation of this specification is contained in text files (gcc_data.wsdl, gcc_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.

ж 20	98-04-3 CR 035	
~ <u>29</u>	98-04-3 CR 035	
For <u>HELP</u> on	sing this form, see bottom of this page or look at the pop-up text over the 光 symbols	3.
Proposed chang	ME Radio Access Network Core Network	k X
Title:	Removal of OSA API SCFs description in W3C WSDL	
Source:	CN5 IBM (Joe McIntyre)	
Work item code:	OSA2 Date: # 18/11/2004	
Category:	Release: # REL-6 Use one of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900. Release: # REL-6 Use one 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)	7
Reason for chan	OSA WSDL Realization is removed, as the realization is outdated and no suitable replacement is currently available.	
Summary of cha	e: ## OSA WSDL Realization is removed.	
Consequences in not approved:	Outdated WSDL Realization will remain in specifications.	
Clauses affected	₩ Annex B	
Other specs affected:	Y N X Other core specifications Test specifications O&M Specifications	
Other comments	φ	

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

The W3C WSDL representation of this specification is contained in text files (mpcc_data.wsdl, mpcc_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.

[#] 29.1	98-04-4 CR 023 #rev - #	Current version: 6.3.0 **
For <u>HELP</u> on u	ising this form, see bottom of this page or look at the	pop-up text over the \mathbb{H} symbols.
Proposed change	affects: UICC apps第 ME Radio Ac	cess Network Core Network X
Title: ₩	Removal of OSA API SCFs description in W3C W	SDL
Source: #	CN5 IBM (Joe McIntyre)	
Work item code: 第	OSA2	Date: 第 18/11/2004
Category:	A Use one 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 TR 21.900.	Release: # REL-6 Use one 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)
Reason for change	OSA WSDL Realization is removed, as the resultable replacement is currently available.	ealization is outdated and no
Summary of chang	ge: 第 OSA WSDL Realization is removed.	
Consequences if not approved:	₩ Outdated WSDL Realization will remain in sp	ecifications.
Clauses affected:	₩ Annex B	
Ciauses arrected:	★ Annex B ——— ——— ———— How the state of the sta	
Other specs affected:	Y N X Other core specifications	
Other comments:	*	

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

The W3C WSDL representation of this specification is contained in text files (mmccs.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.

光 29	0.198-05 CR <mark>063 </mark>	urrent version: 6.2.0 [₩]
For <u>HELP</u> on u	sing this form, see bottom of this page or look at the p	pop-up text over the ₩ symbols.
Proposed change	affects: UICC apps器 ME Radio Acc	ess Network Core Network X
Title: Ж	Removal of OSA API SCFs description in W3C WS	DL
Source: #	CN5 IBM (Joe McIntyre)	
Work item code: ₩	OSA2	Date: **Box 18/11/2004*** 18/11/2004*** **Box 18/11/2004** **Box
Category: 岩	Wese one 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 TR 21.900.	Release: # REL-6 Use one 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)
Reason for change	OSA WSDL Realization is removed, as the reasonitable replacement is currently available.	lization is outdated and no
Summary of chang	ge: ■ OSA WSDL Realization is removed.	
Consequences if not approved:	₩ Outdated WSDL Realization will remain in spec	cifications.
Clauses affected:	₩ Annex B	
Other specs affected:	X Other core specifications X Test specifications O&M Specifications	
Other comments:	×	

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.

ж	29.198-06 CR 053	8.0 [#]
For <u>HELP</u> o	n using this form, see bottom of this page or look at the pop-up text over the 3	€ symbols.
Proposed chang	ne affects: UICC apps# ME Radio Access Network Co	re Network X
Title:	第 Removal of OSA API SCFs description in W3C WSDL	
Source:	# CN5 IBM (Joe McIntyre)	
Work item code	のSA2 Date: 第 18/11/20	004
Category:	## A Release: # REL-6 Use one 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 TR 21.900. ## REL-6 Use one of the following of the following and the following are of the following and the following are of the following	se 2) (996) (997) (998) (999) (1)
Reason for chair	nge: # OSA WSDL Realization is removed, as the realization is outdated a suitable replacement is currently available.	nd no
Summary of cha	nnge: 第 OSA WSDL Realization is removed.	
Consequences not approved:	f 第 Outdated WSDL Realization will remain in specifications.	
Clauses affecte	d: 第 <mark>Annex B</mark>	
Other specs affected:	Y N	
Other comment	s: X	

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.

C (functional modification of feature)

Detailed explanations of the above categories can

D (editorial modification)

be found in 3GPP TR 21.900.

For <u>HELP</u> on using this form, see bottom of this page or look at the pop-up text over the **%** symbols. ME Radio Access Network Core Network X Proposed change affects: UICC apps# Title: ★ Removal of OSA API SCFs description in W3C WSDL Source: 策 CN5 IBM (Joe McIntyre) Work item code:

SA2 Date: 第 18/11/2004 Category: \mathfrak{R} Release:

REL-6 Use one of the following categories: Use <u>one</u> of the following releases: F (correction) (GSM Phase 2) 2 A (corresponds to a correction in an earlier release) R96 (Release 1996) **B** (addition of feature), R97 (Release 1997)

R98

R99

Rel-4

Rel-5

Rel-6

(Release 1998)

(Release 1999)

(Release 4)

(Release 5)

(Release 6)

Reason for change: #		OSA WSDL Realization is removed, as the realization is outdated and no suitable replacement is currently available.
Summary of change: ₩		OSA WSDL Realization is removed.
Consequences if not approved:	¥	Outdated WSDL Realization will remain in specifications.
Clauses affected:	æ	Anney R

Clauses affected: Other specs affected:	Y N X Other core specifications Test specifications
Other comments:	X O&M Specifications

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.

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 X

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

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

Clauses affected:	器 Annex B
Other specs affected:	Y N X Other core specifications ₩ X Test specifications X O&M Specifications
Other comments:	₩

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.

3 29	<mark>0.198-11</mark> CR <mark>034 </mark>	current version: 6.2.0 [₩]		
For <u>HELP</u> 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				
Title: ♯	Removal of OSA API SCFs description in W3C WS	DL		
Source: #	CN5 IBM (Joe McIntyre)			
Work item code: ₩	OSA2	Date: **Box 18/11/2004*** 18/11/2004*** **Box 18/11/2004** **Box 1		
Category: 岩	Wese one 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 TR 21.900.	Release: # REL-6 Use one 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)		
Reason for change	OSA WSDL Realization is removed, as the reasonitable replacement is currently available.	alization is outdated and no		
Summary of chang	ne: 第 OSA WSDL Realization is removed.			
Consequences if not approved:	第 Outdated WSDL Realization will remain in spec	cifications.		
Clauses affected:	₩ Annex B			
Other specs affected:	Y N X Other core specifications X Test specifications O&M Specifications			
Other comments:	×			

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.

* 2	9 <mark>.198-12</mark> CR <mark>035</mark>	- # Current version: 6.2.0 #			
For <u>HELP</u> on	For <u>HELP</u> 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					
Title:	Removal of OSA API SCFs description in	W3C WSDL			
Source:	CN5 IBM (Joe McIntyre)				
Work item code:	OSA2	<i>Date:</i>			
Category:	Use one of the following categories: F (correction) A (corresponds to a correction in an earlie B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories of the found in 3GPP TR 21.900.	R97 (Release 1997) R98 (Release 1998) R99 (Release 1999)			
Reason for chang	e: # OSA WSDL Realization is removed, suitable replacement is currently ava				
Summary of char	ge: 第 OSA WSDL Realization is removed.				
Consequences if not approved:	第 Outdated WSDL Realization will remain	ain in specifications.			
Clauses affected:	₩ Annex B				
Ciauses affected:	策 Annex B				
Other specs affected:	Y N X Other core specifications Test specifications O&M Specifications	¥			
Other comments:	×				

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

The W3C WSDL representation of this specification is contained in a text file (cs.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.

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 \mathbb{H} symbols. ME Radio Access Network Core Network X Proposed change affects: UICC apps# Title: ★ Removal of OSA API SCFs description in W3C WSDL Source: 策 CN5 IBM (Joe McIntyre) Work item code:

SA3 Date: 第 18/11/2004 Category: \mathfrak{R} Release:

REL-6 Use one of the following categories: Use one of the following releases: (GSM Phase 2) **F** (correction) 2 A (corresponds to a correction in an earlier release) R96 (Release 1996) **B** (addition of feature), R97 (Release 1997) **C** (functional modification of feature) (Release 1998) R98 **D** (editorial modification) (Release 1999) R99 Detailed explanations of the above categories can Rel-4 (Release 4) be found in 3GPP TR 21.900. Rel-5 (Release 5)

Reason for change:	OSA WSDL Realization is removed, as the realization is outdated and no suitable replacement is currently available.	
Summary of change:	: 第 OSA WSDL Realization is removed.	
Consequences if not approved:	Outdated WSDL Realization will remain in specifications.	
Clauses affected:	₩ Annex B	
Other specs affected:	Y N X Other core specifications X Test specifications O&M Specifications	
Other comments:	¥	

Rel-6

(Release 6)

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.