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Technical Specification

Digital cellular telecommunications system (Phase 2+);
Universal Mobile Telecommunications System (UMTS);
Telecommunication management;
Entry Point (EP) Integration Reference Point (IRP);
SOAP Solution Set (SS)
(3GPP TS 32.367 version 8.0.0 Release 8)

GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS

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Foreword

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Contents

Foreword

This Technical Specification (TS) has been produced by the 3rd Generation Partnership Project (3GPP).

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Introduction

The present document is part of a TS-family covering the 3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; Telecommunication management; as identified below:

32.361:   "Entry Point (EP) Integration Reference Point (IRP): Requirements";

32.362:   "Entry Point (EP) Integration Reference Point (IRP): Information Service (IS)";

32.363:   "Entry Point (EP) Integration Reference Point (IRP): Common Object Request Broker Architecture (CORBA) Solution Set (SS)";

32.365:   "Entry Point (EP) Integration Reference Point (IRP): eXtensible Markup Language (XML) definitions".

32.367:   "Entry Point (EP) Integration Reference Point (IRP): SOAP Solution Set (SS)".

1 Scope

The present document specifies the SOAP Solution Set for the IRP whose semantics are specified in Entry Point IRP: Information Service (3GPP TS 32.362 [4]).

This Solution Set specification is related to 3GPP TS 32.362 V8.0.X.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) non-specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1]   3GPP TS 32.101: "Telecommunication management; Principles and high level requirements".

[2]   3GPP TS 32.102: "Telecommunication management; Architecture".

[3]   3GPP TS 32.361: " Technical Specification Group Services and System Aspects; Telecommunication management; Entry Point (EP) Integration Reference Point (IRP): Requirements ".

[4]   3GPP TS 32.362: " Technical Specification Group Services and System Aspects; Telecommunication management; Entry Point (EP) Integration Reference Point (IRP): Information Service (IS)".

[5]   3GPP TS 32.365: " Telecommunication management; Entry Point (EP) Integration Reference Point (IRP): eXtensible Markup Language (XML) definitions".

[6]   3GPP TS 32.311: "Telecommunication management; Generic Integration Reference Point (IRP) management; Requirements".

[7]   3GPP TS 32.312: "Telecommunication management; Generic Integration Reference Point (IRP) management; Information Service (IS)".

[8]   3GPP TS 32.317: "Telecommunication management; Generic Integration Reference Point (IRP) management; SOAP solution set".

[9]   3GPP TS 32.150: "Telecommunication management; Integration Reference Point (IRP) Concept and definitions".

[10]   3GPP TS 32.307: "Telecommunication management; Configuration Management (CM); Notification Integration Reference Point (IRP): SOAP solution set".

[11]   W3C SOAP 1.1 specification (http://www.w3.org/TR/2000/NOTE-SOAP-20000508/)

[12]   W3C XPath 1.0 specification (http://www.w3.org/TR/1999/REC-xpath-19991116)

[13]   W3C WSDL 1.1 specification (http://www.w3.org/TR/2001/NOTE-wsdl-20010315)

[14]   W3C SOAP 1.2 specification (http://www.w3.org/TR/soap12-part1/)

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in 3GPP TS 32.101 [1], 3GPP TS 32.102 [2], 3GPP TS 32.150 [9] and 3GPP TS 32.361 [3] and the following apply:

IRP document version number string (or "IRPVersion"): See 3GPP TS 32.311 [6].

3.2 Abbreviations

For the purposes of the present document, the following abbreviations apply:

IS   Information Service
SS   Solution Set
WSDL Web Service Description Language

4 Architectural features

4.1 General

The overall architectural feature of the Entry Point IRP is specified in 3GPP TS 32.362 [4]. This clause specifies features that are specific to the SOAP solution set.

The SOAP 1.1 specification [11] and WSDL 1.1 specification [13] are supported.

The SOAP 1.2 specification [14] is supported optionally.

This specification uses "document" style in WSDL file.

This specification uses "literal" encoding style in WSDL file.

The filter language used in the SS is the XPath Language (see W3C XPath 1.0 specification [12]). IRPAgents may throw a FilterComplexityLimit fault when a given filter is too complex.

The Entry Point IRP SOAP SS uses the Notification IRP SOAP SS of 3GPP TS 32.307 [10]. The IRPAgent shall support the push interface model, which means that the IRPAgent sends Entry Point notifications to the IRPManager as soon as new events occur. The IRPManager does not need to check ("pull") for events.

This specification uses a number of namespace prefixes throughout that are listed in Table 4.1.

Table 4.1: Prefixes and Namespaces used in this specification

PREFIX	NAMESPACE
(no prefix)	http://schemas.xmlsoap.org/wsdl/
soap	http://schemas.xmlsoap.org/wsdl/soap/
entryPointIRPSystem	http://www.3gpp.org/ftp/Specs/archive/32_series/32.367#EntryPointIRPSystem
entryPointIRPData	http://www.3gpp.org/ftp/Specs/archive/32_series/32.367#EntryPointIRPData
xn	http://www.3gpp.org/ftp/specs/archive/32_series/32.625#genericNrm
genericIRPSystem	http://www.3gpp.org/ftp/Specs/archive/32_series/32.317/schema/32317-810/GenericIRPSystem
genericIRPData	http://www.3gpp.org/ftp/Specs/archive/32_series/32.317/schema/32317-810/GenericIRPData
ntfIRPNtfSystem	http://www.3gpp.org/ftp/Specs/archive/32_series/32.307/schema/32307-810/notification/NotificationIRPNtfSystem

The WSDL structure is depicted in Figure 4.1 below, depicting port type, binding and service. The port type contains port type operations, which again contains input, output and fault messages. The binding contains binding operations, which have the same name as the port type operations. The binding connects to a port inside the service.
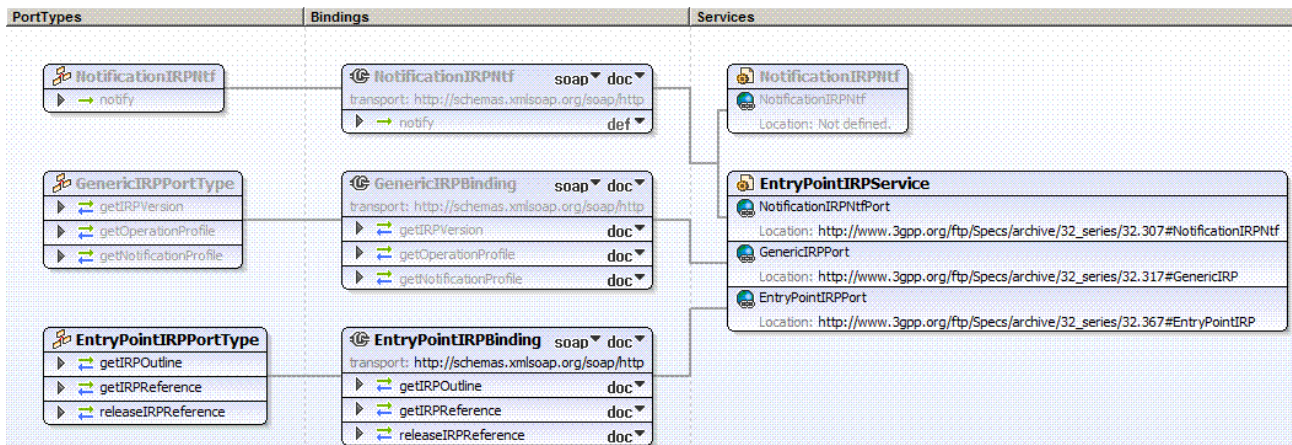
Figure 4.1: Entry Point IRP SOAP Solution Set WSDL structure

5 Mapping

5.1 Operation and notification mapping

The Entry Point IRP IS (3GPP TS 32.362 [4]) defines the operations and their semantics.

Table 5.1 maps the operations defined in the Entry Point IRP IS to their equivalent types, messages, port type operation, and binding operation in this Solution Set (SS).

Table 5.1 also maps the notifications of the Entry Point IRP IS, as well as inherited operations.

Table 5.1 also qualifies if an operation is Mandatory (M) or Optional (O).

Table 5.1: Mapping from IS Operation to SS Equivalents

IS Operation in 3GPP TS 32.362 [4]	SS: Operation for WSDL port type and WSDL binding	SS: Port of EntryPointIRPService	Qualifier
getIRPOutline	getIRPOutline (note 1)	EntryPointIRPPort	M
getIRPReference	getIRPReference (note 1)	EntryPointIRPPort	M
releaseIRPReference	releaseIRPReference (note 1)	EntryPointIRPPort	M
notifyIRPInfoChanges	notify (note 2)	NotificationIRPNtfPort	M
getIRPVersion (note 3)	See TS 32.317 [8]	GenericIRPPort	M
getOperationProfile (note 3)	See TS 32.317 [8]	GenericIRPPort	O
getNotificationProfile (note 3)	See TS 32.317 [8]	GenericIRPPort	O
NOTE 1: The operation is under the port type entryPointIRPSystem:EntryPointIRPPortType and under the binding entryPointIRPSystem:EntryPointIRPBinding.			
NOTE 2: The IS equivalent maps to an XML definition specified in 3GPP TS 32.365 [5], and this being an input parameter to the operation notify under the port type ntfIRPNtfSystem:NotificationIRPNtf and under the binding ntfIRPNtfSystem:NotificationIRPNtf of 3GPP TS 32.307 [10]. This binding is linked to a port of the EntryPointIRPService as indicated in the table above.			
NOTE 3: The IS operation is inherited from the ManagedGenericIRP IOC specified in 3GPP TS 32.312 [7]. This inheritance is by the EPIRP IOC of 3GPP TS 32.362 [4] inheriting from the ManagedGenericIRP IOC. The corresponding binding is linked to a port of the EntryPointIRPService as indicated in the table above.			

5.2 Operation parameter mapping

The Entry Point IRP IS (3GPP TS 32.362 [4]) defines semantics of parameters carried in the operations. The tables below show the mapping of these parameters, as per operation, to their equivalents defined in this SS.

5.2.1 Operation `getIRPOutline`

5.2.1.1 Input parameters

Table 5.2.1.1: Mapping from IS `getIRPOutline` input parameters to SS equivalents

IS Operation parameter	SS WSDL type sub-element used in corresponding input message under corresponding port type operation as indicated in Table 5.1	Qualifier
iRPVersion	iRPVersion	M

5.2.1.2 Output parameters

Table 5.2.1.2: Mapping from IS `getIRPOutline` output parameters to SS equivalents

IS Operation parameter	SS WSDL type sub-element used in corresponding output message under corresponding port type operation as indicated in Table 5.1	Qualifier
supportedIRPList	supportedIRPList	M
status	status	M

5.2.1.3 Fault definition

Table 5.2.1.3: Mapping from IS `getIRPOutline` exceptions to SS equivalents

Assertion name	SS WSDL type enumeration value used in corresponding fault message under corresponding port type operation as indicated in Table 5.1	Qualifier
invalidIRPVersion	InvalidIRPVersion	M
operationFailed	OperationFailed	M

5.2.2 Operation `getIRPReference`

5.2.1.1 Input parameters

Table 5.2.1.1: Mapping from IS `getIRPReference` input parameters to SS equivalents

IS Operation parameter	SS WSDL type sub-element used in corresponding input message under corresponding port type operation as indicated in Table 5.1	Qualifier
managerIdentifier	managerIdentifier	M
systemDN	systemDN	M
rDN	rDN	M

5.2.1.2 Output parameters

Table 5.2.1.2: Mapping from IS `getIRPReference` output parameters to SS equivalents

IS Operation parameter	SS WSDL type sub-element used in corresponding output message under corresponding port type operation as indicated in Table 5.1	Qualifier
iRPReference	iRPReference	M
status	status	M

5.2.1.3 Fault definition

Table 5.2.1.3: Mapping from IS `getIRPReference` exceptions to SS equivalents

Assertion name	SS WSDL type enumeration value used in corresponding fault message under corresponding port type operation as indicated in Table 5.1	Qualifier
invalidRequestedParameters	InvalidRequestedParameters	M
operationFailed	OperationFailed	M

5.2.3 Operation `releaseIRPReference`

5.2.1.1 Input parameters

Table 5.2.1.1: Mapping from IS `releaseIRPReference` input parameters to SS equivalents

IS Operation parameter	SS WSDL type sub-element used in corresponding input message under corresponding port type operation as indicated in Table 5.1	Qualifier
managerIdentifier	managerIdentifier	M
iRPReference	iRPReference	M

5.2.1.2 Output parameters

Table 5.2.1.2: Mapping from IS `releaseIRPReference` output parameters to SS equivalents

IS Operation parameter	SS WSDL type sub-element used in corresponding output message under corresponding port type operation as indicated in Table 5.1	Qualifier
status	status	M

5.2.1.3 Fault definition

Table 5.2.1.3: Mapping from IS `releaseIRPReference` exceptions to SS equivalents

Assertion name	SS WSDL type enumeration value used in corresponding fault message under corresponding port type operation as indicated in Table 5.1	Qualifier
unknownIRPReference	UnknownIRPReference	M
operationFailed	OperationFailed	M

Annex A (normative):
WSDL specifications

```
<?xml version="1.0" encoding="UTF-8"?>
<!--
    3GPP TS 32.367 Entry Point IRP SOAP Solution Set
-->
<definitions xmlns="http://schemas.xmlsoap.org/wsdl/"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:entryPointIRPSystem="http://www.3gpp.org/ftp/Specs/archive/32_series/32.367#EntryPointIRPSyste
m"
xmlns:entryPointIRPData="http://www.3gpp.org/ftp/Specs/archive/32_series/32.367#EntryPointIRPData"
xmlns:xn="http://www.3gpp.org/ftp/specs/archive/32_series/32.625#genericNrm"
xmlns:genericIRPSystem="http://www.3gpp.org/ftp/Specs/archive/32_series/32.317/schema/32317-
810/GenericIRPSystem"
xmlns:genericIRPData="http://www.3gpp.org/ftp/Specs/archive/32_series/32.317/schema/32317-
810/GenericIRPData"
xmlns:ntfIRPNtfSystem="http://www.3gpp.org/ftp/Specs/archive/32_series/32.307/schema/32307-
810/notification/NotificationIRPNtfSystem"
targetNamespace="http://www.3gpp.org/ftp/Specs/archive/32_series/32.367#EntryPointIRPSystem">
    <import namespace="http://www.3gpp.org/ftp/Specs/archive/32_series/32.307/schema/32307-
800/notification/NotificationIRPNtfSystem"
location="http://www.3gpp.org/ftp/Specs/archive/32_series/32.307/schema/32307-810-wsdl.zip"/>
    <import namespace="http://www.3gpp.org/ftp/Specs/archive/32_series/32.317/schema/32317-
800/GenericIRPSystem" location="http://www.3gpp.org/ftp/Specs/archive/32_series/32.317/schema/32317-
810-wsdl.zip"/>
    <types>
        <schema
targetNamespace="http://www.3gpp.org/ftp/Specs/archive/32_series/32.367#EntryPointIRPData"
xmlns="http://www.w3.org/2001/XMLSchema">
            <import namespace="http://www.3gpp.org/ftp/specs/archive/32_series/32.625#genericNrm"/>
            <import namespace="http://www.3gpp.org/ftp/Specs/archive/32_series/32.317/schema/32317-
810/GenericIRPData"/>
            <!-- The following types are defined for the Entry Point IRP operations -->
            <simpleType name="OperationStatusTwo">
                <restriction base="string">
                    <enumeration value="OperationSucceeded"/>
                    <enumeration value="OperationFailed"/>
                </restriction>
            </simpleType>
            <complexType name="IRPManagementScope">
                <sequence>
                    <element name="subTreeDN" type="xn:dn" minOccurs="0" maxOccurs="unbounded"/>
                </sequence>
            </complexType>
            <complexType name="IRPElement">
                <sequence>
                    <element name="rDN" type="xn:dn"/>
                    <element name="iRPVersionSet" type="genericIRPData:VersionNumberSetType"/>
                    <element name="iRPManagementScope" type="entryPointIRPData:IRPManagementScope"
minOccurs="0"/>
                </sequence>
            </complexType>
            <complexType name="IRPList">
                <sequence>
                    <element name="iRPElement" type="entryPointIRPData:IRPElement"
maxOccurs="unbounded"/>
                </sequence>
            </complexType>
            <complexType name="SupportedIRP">
                <sequence>
                    <element ref="xn:systemDN"/>
                    <element name="iRPList" type="entryPointIRPData:IRPList"/>
                </sequence>
            </complexType>
            <complexType name="SupportedIRPList">
                <sequence>
                    <element name="supportedIRP" type="entryPointIRPData:SupportedIRP"
maxOccurs="unbounded"/>
                </sequence>
            </complexType>
            <!-- getIRPOutline Request-->
            <element name="getIRPOutline">
                <complexType>
                    <sequence>
                        <element name="iRPVersion" type="genericIRPData:VersionNumberType"/>
                    </sequence>
                </complexType>
            </element>
            <!-- getIRPOutline Response -->
            <element name="getIRPOutlineResponse">
                <complexType>
                    <sequence>
```

```
                                <element name="supportedIRPList" type="entryPointIRPData:SupportedIRPList"/>
                                <element name="status" type="entryPointIRPData:OperationStatusTwo"/>
                            </sequence>
                        </complexType>
                    </element>
                    <!-- getIRPOutline Fault -->
                    <element name="getIRPOutlineFault">
                        <simpleType>
                            <restriction base="string">
                                <enumeration value="InvalidIRPVersion"/>
                                <enumeration value="OperationFailed"/>
                            </restriction>
                        </simpleType>
                    </element>
                    <!-- getIRPReference Request -->
                    <element name="getIRPReference">
                        <complexType>
                            <sequence>
                                <element name="managerIdentifier" type="xn:dn"/>
                                <element ref="xn:systemDN"/>
                                <element name="rDN" type="xn:dn"/>
                            </sequence>
                        </complexType>
                    </element>
                    <!-- getIRPReference Response -->
                    <element name="getIRPReferenceResponse">
                        <complexType>
                            <sequence>
                                <element name="iRPReference" type="xn:dn"/>
                                <element name="status" type="entryPointIRPData:OperationStatusTwo"/>
                            </sequence>
                        </complexType>
                    </element>
                    <!-- getIRPReference Fault -->
                    <element name="getIRPReferenceFault">
                        <simpleType>
                            <restriction base="string">
                                <enumeration value="InvalidRequestedParameters"/>
                                <enumeration value="OperationFailed"/>
                            </restriction>
                        </simpleType>
                    </element>
                    <!-- releaseIRPReference  Request -->
                    <element name="releaseIRPReference ">
                        <complexType>
                            <sequence>
                                <element name="managerIdentifier" type="xn:dn"/>
                                <element name="iRPReference" type="xn:dn"/>
                            </sequence>
                        </complexType>
                    </element>
                    <!-- releaseIRPReference Response -->
                    <element name="releaseIRPReferenceResponse">
                        <complexType>
                            <sequence>
                                <element name="status" type="entryPointIRPData:OperationStatusTwo"/>
                            </sequence>
                        </complexType>
                    </element>
                    <!-- releaseIRPReference Fault -->
                    <element name="releaseIRPReferenceFault">
                        <simpleType>
                            <restriction base="string">
                                <enumeration value="UnknownIRPReference"/>
                                <enumeration value="OperationFailed"/>
                            </restriction>
                        </simpleType>
                    </element>
                </schema>
            </types>
            <message name="getIRPOutline">
                <part name="parameter" element="entryPointIRPData:getIRPOutline"/>
            </message>
            <message name="getIRPOutlineResponse">
                <part name="parameter" element="entryPointIRPData:getIRPOutlineResponse"/>
            </message>
            <message name="getIRPOutlineFault">
                <part name="parameter" element="entryPointIRPData:getIRPOutlineFault"/>
            </message>
            <message name="getIRPReference">
                <part name="parameter" element="entryPointIRPData:getIRPReference"/>
            </message>
            <message name="getIRPReferenceResponse">
                <part name="parameter" element="entryPointIRPData:getIRPReferenceResponse"/>
            </message>
            <message name="getIRPReferenceFault">
                <part name="parameter" element="entryPointIRPData:getIRPReferenceFault"/>
            </message>
            <message name="releaseIRPReference">
```

```
                <part name="parameter" element="entryPointIRPData:releaseIRPReference"/>
        </message>
        <message name="releaseIRPReferenceResponse">
                <part name="parameter" element="entryPointIRPData:releaseIRPReferenceResponse"/>
        </message>
        <message name="releaseIRPReferenceFault">
                <part name="parameter" element="entryPointIRPData:releaseIRPReferenceFault"/>
        </message>
        <portType name="EntryPointIRPPortType">
                <operation name="getIRPOutline">
                        <input message="entryPointIRPSystem:getIRPOutline"/>
                        <output message="entryPointIRPSystem:getIRPOutlineResponse"/>
                        <fault name="getIRPOutlineFault" message="entryPointIRPSystem:getIRPOutlineFault"/>
                </operation>
                <operation name="getIRPReference">
                        <input message="entryPointIRPSystem:getIRPReference"/>
                        <output message="entryPointIRPSystem:getIRPReferenceResponse"/>
                        <fault name="getIRPReferenceFault" message="entryPointIRPSystem:getIRPReferenceFault"/>
                </operation>
                <operation name="releaseIRPReference">
                        <input message="entryPointIRPSystem:releaseIRPReference"/>
                        <output message="entryPointIRPSystem:releaseIRPReferenceResponse"/>
                        <fault name="releaseIRPReferenceFault"
message="entryPointIRPSystem:releaseIRPReferenceFault"/>
                </operation>
        </portType>
        <binding name="EntryPointIRPBinding" type="entryPointIRPSystem:EntryPointIRPPortType">
                <soap:binding style="document" transport="http://schemas.xmlsoap.org/soap/http"/>
                <operation name="getIRPOutline">
                        <soap:operation
soapAction="http://www.3gpp.org/ftp/Specs/archive/32_series/32.367#getIRPOutline" style="document"/>
                        <input>
                                <soap:body use="literal"/>
                        </input>
                        <output>
                                <soap:body use="literal"/>
                        </output>
                        <fault name="getIRPOutlineFault">
                                <soap:fault name="getIRPOutlineFault" use="literal"/>
                        </fault>
                </operation>
                <operation name="getIRPReference">
                        <soap:operation
soapAction="http://www.3gpp.org/ftp/Specs/archive/32_series/32.367#getIRPReference"
style="document"/>
                        <input>
                                <soap:body use="literal"/>
                        </input>
                        <output>
                                <soap:body use="literal"/>
                        </output>
                        <fault name="getIRPReferenceFault">
                                <soap:fault name="getIRPReferenceFault" use="literal"/>
                        </fault>
                </operation>
                <operation name="releaseIRPReference">
                        <soap:operation
soapAction="http://www.3gpp.org/ftp/Specs/archive/32_series/32.367#releaseIRPReference"
style="document"/>
                        <input>
                                <soap:body use="literal"/>
                        </input>
                        <output>
                                <soap:body use="literal"/>
                        </output>
                        <fault name="releaseIRPReferenceFault">
                                <soap:fault name="releaseIRPReferenceFault" use="literal"/>
                        </fault>
                </operation>
        </binding>
        <service name="EntryPointIRPService">
                <port name="EntryPointIRPPort" binding="entryPointIRPSystem:EntryPointIRPBinding">
                        <soap:address
location="http://www.3gpp.org/ftp/Specs/archive/32_series/32.367#EntryPointIRP"/>
                </port>
                <port name="GenericIRPPort" binding="genericIRPSystem:GenericIRPBinding">
                        <soap:address
location="http://www.3gpp.org/ftp/Specs/archive/32_series/32.317#GenericIRP"/>
                </port>
                <port name="NotificationIRPNtfPort" binding="ntfIRPNtfSystem:NotificationIRPNtf">
                        <soap:address
location="http://www.3gpp.org/ftp/Specs/archive/32_series/32.307#NotificationIRPNtf"/>
                </port>
        </service>
</definitions>
```

Annex B (informative):
WSDL electronic files

The electronic files corresponding to the normative WSDL/XML schema defined in the present document are available in native form in the following archive:

http://www.3gpp.org/ftp/Specs/archive/32_series/32.367/schema/32367-800-wsdl.zip

Annex C (informative):
Change history

Change history								
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March 2009	SA-43	SP_090061	--	--	Presentation to SA for information and approval	--	1.0.0	8.0.0

History

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