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Odprti dostop do storitve (OSA) - Spletne storitve Parlay X - 1. del: Splošno (Parlay X 3)

Open Service Access (OSA) - Parlay X Web Services - Part 1: Common (Parlay X 3)

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ETSI ES 202 504-1 V1.1.1 (2008-05)

ETSI Standard

**Open Service Access (OSA);
Parlay X Web Services;
Part 1: Common
(Parlay X 3)**



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Foreword

This ETSI Standard (ES) has been produced by ETSI Technical Committee Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN).

The present document is part 1 of a multi-part deliverable covering Open Service Access (OSA); Parlay X Web Services, as identified below:

Part 1: "Common";

Part 2: "Third Party Call";

Part 3: "Call Notification";

Part 4: "Short Messaging";

Part 5: "Multimedia Messaging";

Part 6: "Payment"; <https://standards.iteh.ai/catalog/standards/sist/e1ecb50c-205f-4db8-b5e7-e025affa9b2d/sist-es-202-504-1-v1-1-1-2008>

Part 7: "Account Management";

Part 8: "Terminal Status";

Part 9: "Terminal Location";

Part 10: "Call Handling";

Part 11: "Audio Call";

Part 12: "Multimedia Conference";

Part 13: "Address List Management";

Part 14: "Presence";

Part 15: "Message Broadcast";

Part 16: "Geocoding";

Part 17: "Application-driven Quality of Service (QoS)";

Part 18: "Device Capabilities and Configuration";

Part 19: "Multimedia Streaming Control";

Part 20: "Multimedia Multicast Session Management".

The present document has been defined jointly between ETSI, The Parlay Group (<http://www.parlay.org>) and the 3GPP.

The present document forms part of the Parlay X 3.0 set of specifications.

The present document is equivalent to 3GPP TS 29.199-01 V7.2.0 (Release 7).

The Mapping specification of the Parlay X 3 Web Services (ES 202 504) to the Parlay/OSA APIs (ES 203 915 [11]) and, where applicable, to IMS, is also structured as above. A mapping of the Parlay X 3 Web Services is however not applicable for all parts (e.g. part 13), but the numbering of parts is kept.

Table 1: Overview of the Parlay X 3 Web Services and OSA APIs mappings

Parlay X 3 Web Services (ES 202 504 series)		OSA APIs (and IMS) mappings (TR 102 397 series)	
ES 202 504-1	Common	TR 102 397-1	Common mapping
ES 202 504-2	Third party call	TR 102 397-2-1	Generic Call Control mapping
		TR 102 397-2-2	Multi-Party Call Control mapping
ES 202 504-3	Call notification	TR 102 397-3-1	Generic Call Control mapping
		TR 102 397-3-2	Multi-Party Call Control mapping
ES 202 504-4	Short messaging	TR 102 397-4-1	User Interaction mapping
		TR 102 397-4-2	Multi-Media Messaging mapping
ES 202 504-5	Multimedia messaging	TR 102 397-5-1	User Interaction mapping
		TR 102 397-5-2	Multi-Media Messaging mapping
ES 202 504-6	Payment	TR 102 397-6	Charging mapping
ES 202 504-7	Account management	TR 102 397-7	Account Management mapping
ES 202 504-8	Terminal status	TR 102 397-8	Mobility User Status mapping
ES 202 504-9	Terminal location	TR 102 397-9-1	Mobility User Location mapping
		TR 102 397-9-2	Mobility User Location CAMEL mapping
ES 202 504-10	Call handling	TR 102 397-10-1	Generic Call Control & User Interaction mapping
		TR 102 397-10-2	Multi-Party Call Control & User Interaction mapping
		TR 102 397-10-3	Policy Management mapping
ES 202 504-11	Audio call	TR 102 397-11-1	Generic Call Control & User Interaction mapping
		TR 102 397-11-2	Multi-Party Call Control & User Interaction mapping
ES 202 504-12	Multimedia conference	TR 102 397-12	Multi-Media Call Control mapping
ES 202 504-13	Address list management	TR 102 397-13	Not Applicable
ES 202 504-14	Presence	TR 102 397-14-1	Presence & Availability Management mapping
		TR 102 397-14-2	SIP/IMS Networks mapping
ES 202 504-15	Message broadcast	TR 102 397-15	Message Broadcast mapping
ES 202 504-16	Geocoding	TR 102 397-16	Geocoding mapping
ES 202 504-17	Application-driven QoS	TR 102 397-17	To be determined
ES 202 504-18	Device management	TR 102 397-18	To be determined
ES 202 504-19	Multimedia streaming control	TR 102 397-19	To be determined
ES 202 504-20	Multimedia multicast session management	TR 102 397-20	To be determined

1 Scope

The present document is part 1 of the Stage 3 Parlay X 3 Web Services specification for Open Service Access (OSA).

The OSA specifications define an architecture that enables application developers to make use of network functionality through an open standardized interface, i.e. the OSA APIs.

The present document specifies the Common aspects of the Parlay X 3 Web Services. The following are defined here:

- Name spaces.
- Data definitions.
- Fault definitions.
- WSDL Description of the interfaces.

2 References

References are either specific (identified by date of publication and/or edition number or version number) or non-specific.

- For a specific reference, subsequent revisions do not apply.
- Non-specific reference may be made only to a complete document or a part thereof and only in the following cases:
 - if it is accepted that it will be possible to use all future changes of the referenced document for the purposes of the referring document;
 - for informative references.

Referenced documents which are not found to be publicly available in the expected location might be found at <http://docbox.etsi.org/Reference>.

For online referenced documents, information sufficient to identify and locate the source shall be provided. Preferably, the primary source of the referenced document should be cited, in order to ensure traceability. Furthermore, the reference should, as far as possible, remain valid for the expected life of the document. The reference shall include the method of access to the referenced document and the full network address, with the same punctuation and use of upper case and lower case letters.

NOTE: While any hyperlinks included in this clause were valid at the time of publication ETSI cannot guarantee their long term validity.

2.1 Normative references

The following referenced documents are indispensable for the application of the present document. For dated references, only the edition cited applies. For non-specific references, the latest edition of the referenced document (including any amendments) applies.

[1] ETSI TR 121 905: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); Vocabulary for 3GPP Specifications (3GPP TR 21.905 version 7.2.0 Release 7)".

[2] W3C Recommendation (2 May 2001): "XML Schema Part 2: Datatypes".

NOTE: Available at: <http://www.w3.org/TR/2001/REC-xmlschema-2-20010502/>.

[3] IETF RFC 3966: "The tel URI for Telephone Numbers".

- NOTE: Available at: <http://www.ietf.org/rfc/rfc3966.txt>.
- [4] IETF RFC 3261: "SIP: Session Initiation Protocol".
- NOTE: Available at: <http://www.ietf.org/rfc/rfc3261.txt>.
- [5] WS-I Basic Profile Version 1.0: "Final Material".
- NOTE: Available at: <http://www.ws-i.org/Profiles/BasicProfile-1.0-2004-04-16.html>.
- [6] W3C Note (15 March 2001): "Web Services Description Language (WSDL) 1.1".
- NOTE: Available at: <http://www.w3.org/TR/2001/NOTE-wsdl-20010315>.
- [7] OASIS Standard 200401 (March 2004): "Web Services Security: SOAP Message Security 1.0 (WS-Security 2004)".
- NOTE: Available at: <http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-soap-message-security-1.0.pdf>.
- [8] W3C Recommendation (12 February 2002): "XML-Signature Syntax and Processing".
- NOTE: Available at: <http://www.w3.org/TR/2002/REC-xmldsig-core-20020212/>.
- [9] ISO 4217: "Codes for the representation of currencies and funds".
- [10] IETF RFC 3986: "Uniform Resource Identifier (URI): Generic Syntax".
- NOTE: Available at: <http://www.ietf.org/rfc/rfc3986.txt>.
- [11] ETSI ES 203 915 (All parts): "Open Service Access (OSA): Application Programming Interface (API)".

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3 Definitions and abbreviations

<https://standards.iteh.ai/catalog/standards/sist/e1ecb50c-205f-4db8-b5e7-e025affa9b2d/sist-es-202-504-1-v1-1-1-2008>

3.1 Definitions

For the purposes of the present document, the following terms and definitions apply:

application: computer program that accesses a Web Service

SOAP: not an acronym, protocol used for XML messaging

Web Service: software system designed to support interoperable machine-to-machine interaction over a network

Web Service Provider: entity which provides Web Services interfaces to capabilities offered

Web Service Requester: entity which operates Applications that access Web Services

3.2 Abbreviations

For the purposes of the present document, the abbreviations given in TR 121 905 [1] and the following apply:

3GPP	Third Generation Partnership Project
ETSI	European Telecommunications Standards Institute
IT	Information Technology
OASIS	Organization for the Advancement of Structured Information Standards
OSA	Open Service Access
RFC	Request For Comment
SIP	Session Initiation Protocol
UDDI	Universal Description Discovery and Integration
URI	Uniform Resource Identifier
W3C	World Wide Web Consortium

WSDL	Web Service Definition Language
WS-I	Web Services-Interoperability Organization
XML	Extensible Markup Language

4 Use of Web Services technologies

4.1 Web Service message content

4.1.1 SOAP

All Web Service messages SHALL send and accept messages that conform to the SOAP use defined in the WS-I Basic Profile [5], using the document/literal encoding style.

4.1.2 XML

All Web Service messages SHALL send and accept messages that conform to the XML use defined in the WS-I Basic Profile [5].

4.1.3 HTTP

All Web Service messages SHALL send and accept messages that conform to the HTTP use defined in the WS-I Basic Profile [5].

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4.2 Web Service interface definitions

All Parlay X 3 Web Services are defined according to the following.

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4.2.1 WSDL

All Web Service interfaces SHALL be defined using WSDL 1.1 as defined in the WSDL specification [6] and be conformant to the WSDL use defined in WS-I Basic Profile [5].

See clause 12 for detailed information on the WSDL style to be followed by Parlay X 3 Web Services.

4.3 Security for Parlay X 3 Web Services

If a message contains an identifier and/or credentials representing the sender of the message then these SHALL be provided in a manner prescribed by WS-Security [7].

Encryption of message content MAY be required by the Web Service Provider. If this is required, then this SHALL be accomplished in one of the following manners:

- Use of a Virtual Private Network, to be administered independent of the Web Service implementation.
- Use of Transport Level Security using HTTP over TLS as specified in the WS-I Basic Profile [5].

Integrity of the message content MAY be required by the Web Service Provider. If this is required, then this SHALL be accomplished using XML Digital Signature [8].

4.4 XML data types

Where possible standard XML Schema data types are used, as defined in clause 3 (Built-in datatypes) in XML Schema [2].