

Open Service Access (OSA); Parlay X Web Services; Part 11: Audio Call (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 11 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";
- 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".

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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 29.199-11 V7.2.0 (Release 7).

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1 Scope

The present document is part 11 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 Call Handling Web Service. The following are defined here:

- Name spaces.
- Sequence diagrams.
- Data definitions.
- Interface specification plus detailed method descriptions.
- Fault definitions.
- Service Policies.
- WSDL Description of the interfaces.

The web service had been extended to support media.

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

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

[2] ETSI ES 202 504-1: "Open Service Access (OSA); Parlay X Web Services; Part 1: Common (Parlay X 3)".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in ES 202 504-1 [2] apply.

3.2 Abbreviations

For the purposes of the present document, the abbreviations given in ES 202 504-1 [2] apply.

4 Detailed service description

The web service provides a flexible way to provide multimedia message delivery and the dynamic management of the media involved for the call participants. The interface is very simple, not requiring the developer to manage the creation of the call.

The Audio Call web service allows media to be added/dropped for any ongoing call. This web service also allows interaction with other call control web services (e.g. multimedia conference, third party call), enabling delivery of multimedia to call participants in an ongoing call.

The underlying model of the service is based on the following entities:

- **Call Session:** a call (uniquely identified) to which participants can be added/removed.
- **Call Participant:** each of the call parties (uniquely identified) involved in the call session.
- **Media:** the call can utilize multiple media types to support the participants' communication. In particular both audio and video streams are available, including the specific stream direction (i.e. incoming, outgoing, bidirectional).

NOTE: Call participants in a Call Session are anticipated to be uniquely identifiable using their URI address.

There are several mechanisms which may be utilized for the message content:

- Text, to be rendered using a Text-To-Speech (TTS) engine.
- Audio content (such as .WAV content), to be rendered by an audio player.
- VoiceXML, to be rendered using a VoiceXML browser.
- Video, to provide video streaming to the user.
- Capture media input from the end user.

The service may provide one or more of these mechanisms, as determined by service policy.

The service allows application control of the call participants' multimedia in a call:

- Allow multiple media types for each participant. In particular both audio and video as well as chat and data.
- Add and delete media types.
- Control the specific media stream direction (i.e. incoming, outgoing, bidirectional) for each media type.
- Get the current media status of a single call participant or for all the call participants in a call.
- Control the media interactions for a call participant.

A service policy determines if multimedia application control is supported.

5 Namespaces

The PlayMedia interface uses the namespace:

`http://www.csapi.org/wsdl/parlayx/audio_call/play_media/v3_2`

The CaptureMedia interface uses the namespace:

`http://www.csapi.org/wsdl/parlayx/audio_call/capture_media/v3_1`

The Multimedia interface uses the namespace:

`http://www.csapi.org/wsdl/parlayx/audio_call/multimedia/v3_1`

The data types are defined in the namespace:

`http://www.csapi.org/schema/parlayx/audio_call/v3_2`

The "xsd" namespace is used in the present document to refer to the XML Schema data types defined in XML Schema [1]. The use of the name "xsd" is not semantically significant.

6 Sequence diagrams

6.1 Play audio and check status

Pattern: Request / response.

This example shows an audio message being played, and the different responses to status requests that occur at different phases. Note that the last response, a service exception, reflects the transient nature of results, and that these results will expire.

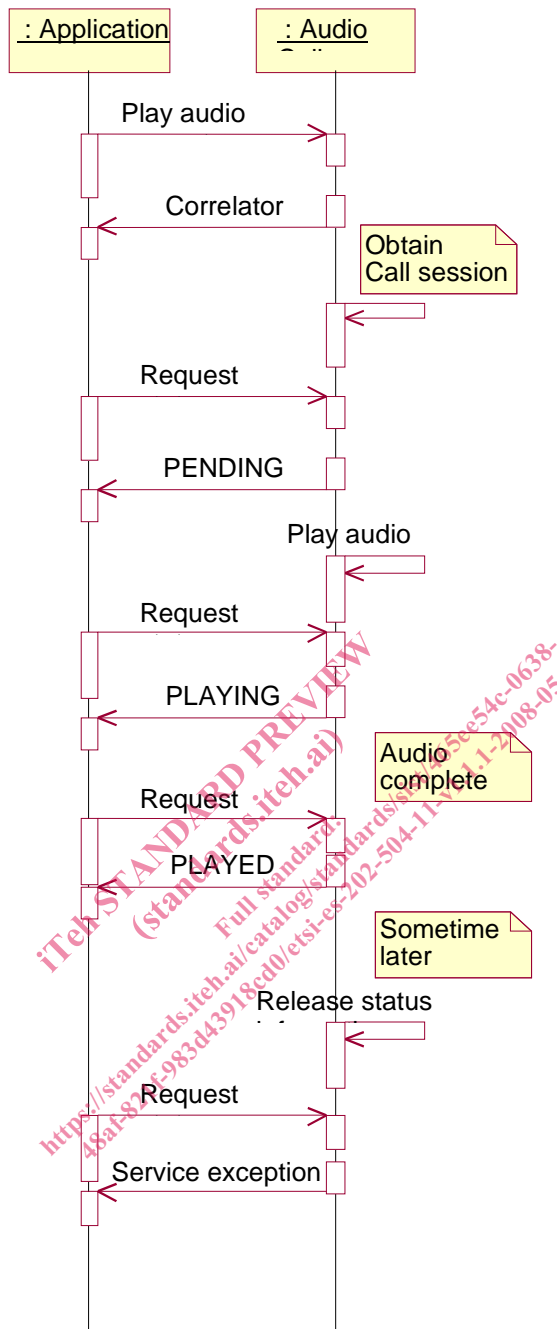


Figure 1