

**Open Service Access (OSA);
Parlay X Web Services;
Part 11: Audio Call
(Parlay X 2)**



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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), and is now submitted for the ETSI standards Membership Approval Procedure.

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".

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 2.2 set of specifications.

The present document is equivalent to 3GPP TS 29.199-11 V6.5.0 (Release 6).

1 Scope

The present document is part 11 of the Stage 3 Parlay X 2 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.

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.
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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 202 391-1: "Open Service Access (OSA); Parlay X Web Services; Part 1: Common (Parlay X 2)".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in ES 202 391-1 [2] apply.

3.2 Abbreviations

For the purposes of the present document, the abbreviations given in ES 202 391-1 [2] apply.

4 Detailed service description

The Audio Call service provides a flexible way to provide vocal message delivery. The interface is very simple, not requiring the developer to manage the creation of the call nor the interactions with the call to deliver the voice message.

There are three mechanisms which may be utilized for the vocal 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.

The service may provide one, two or all three mechanisms, with the service policies providing the mechanism for determining which are available.

5 Namespaces

The AudioCall interface uses the namespace:

`http://www.csapi.org/wsdl/parlayx/audio_call/v2_2`

The data types are defined in the namespace:

`http://www.csapi.org/schema/parlayx/audio_call/v2_1`

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.

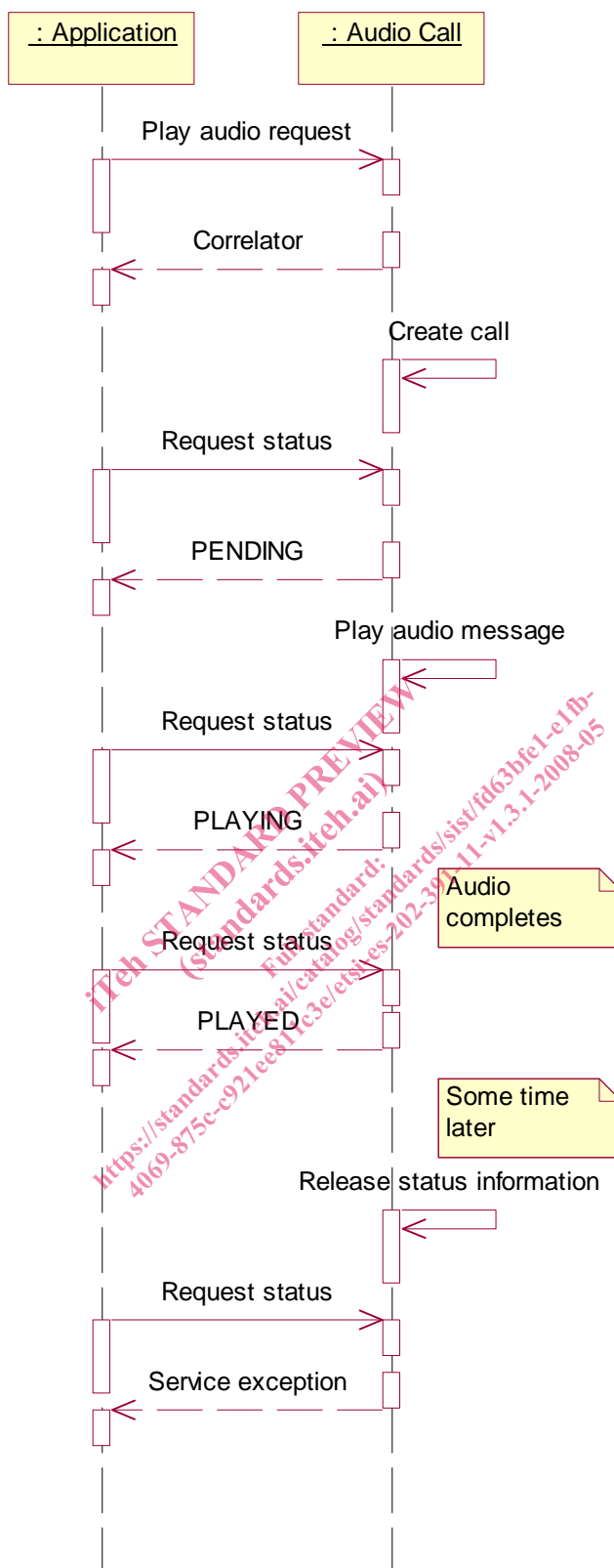


Figure 1

6.2 Play audio and cancel

Pattern: Request / response.

The playing of a message may be ended by the requester, as shown.

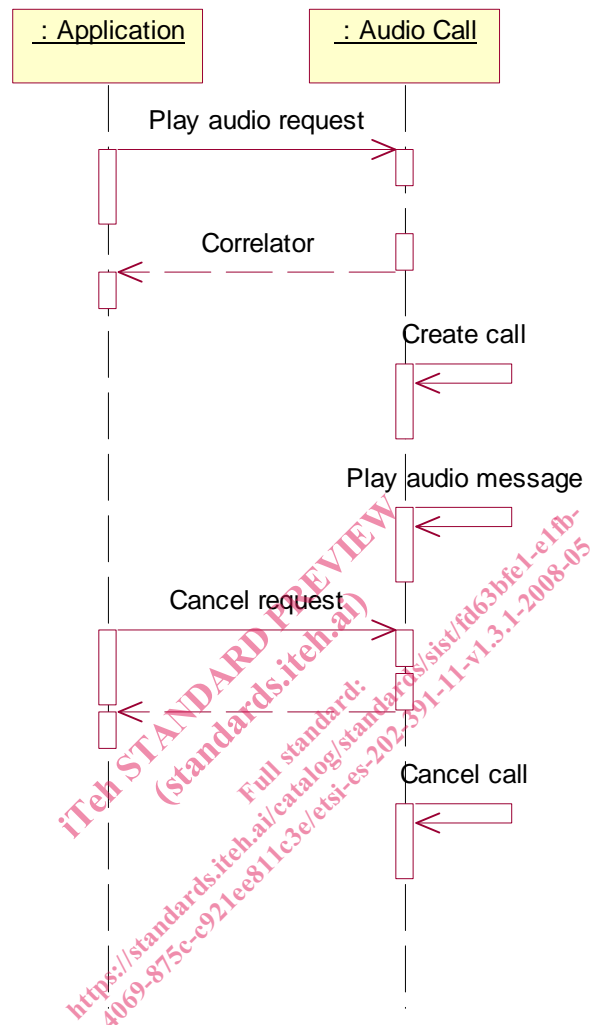


Figure 2

7 XML Schema data type definition

7.1 MessageStatus enumeration

Status of the message after play message operation has been invoked.

| Enumeration value | Description |
|-------------------|---|
| Played | Message has been played |
| Playing | Message is currently playing |
| Pending | Message has not yet started playing |
| Error | An error has occurred, message will not be played |

8 Web Service interface definition

8.1 Interface: PlayAudio

The PlayAudio interface allows the playing of audio messages using different forms of audio content, and operations to monitor or cancel requests.

In all operations, the **address** is restricted to the use of "tel:" and "sip:" URIs as specified in ES 202 391-1 [2], and wildcards are not permitted in these URIs.

8.1.1 Operation: playTextMessage

The invocation of **playTextMessage** requests to set up a call to the user identified by **address** and play a text identified by **text**. The text will be read through a Text-to-Speech engine, according to the specified **language**. The invocation returns as soon as the request is received by the system, i.e. the actual call is performed asynchronously. The **correlator**, returned by the invocation, can be used to identify the request, e.g. to get information on the request status.

This operation is intended to play a message to a single terminal. The URI provided is for a single terminal, not a group URI. If a group URI is provided, a PolicyException will be returned to the application.

8.1.1.1 Input message: playTextMessageRequest

| Part name | Part type | Optional | Description |
|-----------|-----------------------------|----------|---|
| address | xsd:anyURI | No | Address to which message is to be played |
| text | xsd:string | No | Text to process with a Text-To-Speech engine |
| language | xsd:string | No | Language of text (ISO string) |
| charging | common:Charging Information | Yes | Charge to apply for the playing of this message. If charging is not supported then a PolicyException (POL0008) will be returned |

8.1.1.2 Output message: playTextMessageResponse

| Part name | Part type | Optional | Description |
|-----------|------------|----------|---|
| result | xsd:string | No | Correlator for this message for subsequent interactions |

8.1.1.3 Referenced faults

ServiceException from ES 202 391-1 [2]:

- SVC0001: Service error.
- SVC0002: Invalid input value.

PolicyException from ES 202 391-1 [2]:

- POL0001: Policy error.
- POL0002: Privacy error.
- POL0006: Groups not allowed.
- POL0008: Charging not supported.