

# ETSI TS 129 199-10 V8.0.0 (2009-01)

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*Technical Specification*

**Universal Mobile Telecommunications System (UMTS);  
LTE;  
Open Service Access (OSA);  
Parlay X web services;  
Part 10: Call handling  
(3GPP TS 29.199-10 version 8.0.0 Release 8)**

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Reference

RTS/TSGC-0029199-10v800

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Keywords

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## Foreword

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

The present document may refer to technical specifications or reports using their 3GPP identities, UMTS identities or GSM identities. These should be interpreted as being references to the corresponding ETSI deliverables.

The cross reference between GSM, UMTS, 3GPP and ETSI identities can be found under <http://webapp.etsi.org/key/queryform.asp>.

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## Foreword

This Technical Specification has been produced by the 3<sup>rd</sup> Generation Partnership Project (3GPP).

3GPP acknowledges the contribution of the Parlay X Web Services specifications from The Parlay Group. The Parlay Group is pleased to see 3GPP acknowledge and publish the present document, and the Parlay Group looks forward to working with the 3GPP community to improve future versions of the present document.

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

Version x.y.z

where:

- x the first digit:
  - 1 presented to TSG for information;
  - 2 presented to TSG for approval;
  - 3 or greater indicates TSG approved document under change control.
- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

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## Introduction

The present document is part 10 of a multi-part deliverable covering the 3<sup>rd</sup> Generation Partnership Project; Technical Specification Group Core Network; 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"                           |
| <b>Part 10:</b> | <b>"Call handling"</b>                        |
| 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"     |
| Part 21:        | "Content management"                          |
| Part 22:        | "Policy"                                      |

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# 1 Scope

The present document is Part 10 of the Stage 3 Parlay X 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 concepts and the functional architecture for the OSA are contained in 3GPP TS 23.198 [3]. The requirements for OSA are contained in 3GPP TS 22.127 [2].

The present document specifies the Call Handling Web Service aspects of the interface. All aspects of the Call Handling Web Service are defined here, these being:

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

The present document has been defined jointly between 3GPP TSG CT WG5, ETSI TISPAN and The Parlay Group.

Maintenance of up to 3GPP Rel-8 and new OSA Stage 1, 2 and 3 work beyond Rel-9 was moved to OMA in June 2008.

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# 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.) or 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 TR 21.905: "Vocabulary for 3GPP Specifications".

[2] 3GPP TS 22.127: "Service Requirement for the Open Services Access (OSA); Stage 1".

[3] 3GPP TS 23.198: "Open Service Access (OSA); Stage 2".

[4] 3GPP TS 22.101: "Service aspects; Service principles".

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

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

[6] 3GPP TS 29.199-1: "Open Service Access (OSA); Parlay X Web Services; Part 1: Common".

---

# 3 Definitions and abbreviations

## 3.1 Definitions

For the purposes of the present document, the terms and definitions given in 3GPP TS 29.199-1 [6] apply.

## 3.2 Abbreviations

For the purposes of the present document, the abbreviations given in 3GPP TS 29.199-1 [6] apply.

---

# 4 Detailed service description

The Call Handling Web Service provides a mechanism for an application to specify how calls are to be handled for a specific number. Call handling includes commonly utilized actions:

- Call accepting - only accepting calls from a list of numbers.
- Call blocking - blocking calls if they are on a blocking list.
- Conditional call forwarding - changing the destination of a call to another number for a specific calling number.
- Unconditional call forwarding - changing the destination of a call to another number.
- Play audio - initiate audio with the caller (e.g. an announcement or menu).

The set of rules are provided to the Web Service which is responsible for establishing the call handling function. Only one action is taken for a call, and once this action is started the rules will stop being processed.

There is a specific order in which these rules are processed, providing a predictable call handling expectation for rules provided. The processing is done as follows.

- 1) Call accepting determines if the call is accepted or rejected. If the caller is not on the accept list, the call is rejected and rule processing ends.
- 2) Call blocking determines if the call is rejected. If the caller is on the block list, the call is rejected and rule processing ends.
- 3) Conditional call forwarding - each calling number that has a specific forwarding instruction is checked, and the call is forwarded on a match, and rule processing ends.
- 4) Unconditional call forwarding - the called number is changed to the call forwarding number and rule processing ends.
- 5) Play audio - the call is handled by a voice system, which handles all further processing of the call. Rule processing ends when the call is handed off.
- 6) Continue processing call, to complete call to the original called number.

If no rules are specified in a particular area, then that step is skipped. If the rule processing ends without any action being indicated, then the call will continue to the called number.

Call Handling provides its function without further interaction with the Application. This is in contrast to the Call Notification interfaces which provide notifications to the Application for processing.



---

## 5 Namespaces

The Call Handling interface uses the namespace:

`http://www.csapi.org/wsd/parlayx/call_handling/v3_0`

The data types are defined in the namespace:

`http://www.csapi.org/schema/parlayx/call_handling/v3_0`

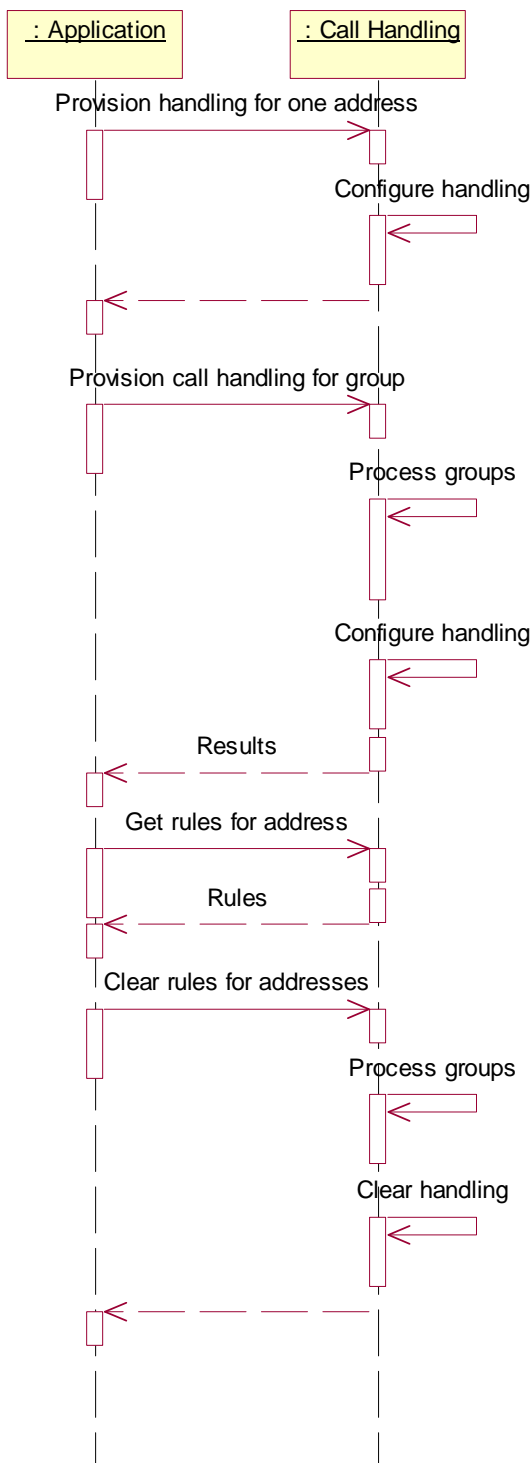
The 'xsd' namespace is used in the present document to refer to the XML Schema data types defined in XML Schema [5]. The use of the name 'xsd' is not semantically significant.

# 6 Sequence diagrams

## 6.1 Setup call handling, query and clear rules

Pattern: Request / Response.

This sequence shows the application setting up Call Handling with rules to be processed., querying those rules and clearing them.



## 7 XML Schema data type definition

### 7.1 ConditionalForward structure

Information on handling of forwarding for specific calling numbers.

| Element name        | Element type | Optional | Description  |
|---------------------|--------------|----------|--|
| CallingAddress      | xsd:anyURI   | No       | Address that call is placed from                               |
| ForwardingAddress   | xsd:anyURI   | No       | Address to forward call to                                     |
| OnBusyAddress       | xsd:anyURI   | No       | If line is busy at forwarding address, forward to this address |
| OnNoAnswerAddresses | xsd:anyURI   | No       | If no answer at forwarding address, forward to this address    |

### 7.2 UnconditionalForward structure

Information for handling of forwarding unconditionally.

| Element name        | Element type | Optional | Description  |
|---------------------|--------------|----------|--|
| ForwardingAddress   | xsd:anyURI   | No       | Address to forward call to                                     |
| OnBusyAddress       | xsd:anyURI   | No       | If line is busy at forwarding address, forward to this address |
| OnNoAnswerAddresses | xsd:anyURI   | No       | If no answer at forwarding address, forward to this address    |

### 7.3 InteractionContent enumeration

The following are the types of content that may be used for user interaction.

| Enumeration | Description                                     |
|-------------|---|
| TextInfo    | Text to be processed by a Text-To-Speech engine |
| VoiceXml    | VoiceXML to be processed by a VoiceXML browser  |
| Audio       | Audio file to be played by an audio processor   |

### 7.4 TextInteraction structure

Information for processing by a text to speech engine.

| Element name | Element type | Optional | Description                                  |
|--------------|--------------|----------|--|
| Text         | xsd:string   | No       | Text to play through a Text-To-Speech engine |
| Language     | xsd:string   | No       | Language of text                             |

### 7.5 VoiceInteraction union

For a call that is to be handled by an interactive voice system, the information to provide to that system.

| Element name | Element type       | Optional | Description  |
|--------------|--------------------|----------|--|
| UnionElement | InteractionContent | No       | Type of content provided (one of the following)      |
| TextInfo     | TextInteraction    | Yes      | Announcement to play through a Text-To-Speech engine |
| VoiceXml     | xsd:anyURI         | Yes      | Location of VoiceXML to use in a VoiceXML browser    |
| Audio        | xsd:anyURI         | Yes      | Location of audio content (WAV or MP3 file)          |

## 7.6 CallHandlingRules structure

Structure containing set of rules that are applied when the call is handled.

| Element name            | Element type                      | Optional | Description   |
|-------------------------|-----------------------------------|----------|---|
| AcceptList              | xsd:anyURI [0..unbounded]         | Yes      | List of addresses to accept calls from                                |
| BlockList               | xsd:anyURI [0..unbounded]         | Yes      | List of addresses to block calls from                                 |
| ForwardList             | ConditionalForward [0..unbounded] | Yes      | List of conditional forwarding addresses and destinations             |
| Forward                 | UnconditionalForward              | Yes      | Unconditional call forwarding address                                 |
| VoiceInteractionContent | VoiceInteraction                  | Yes      | Forward call to a user interaction system with information on content |

## 7.7 SetRulesResult structure

Result of SetRulesRequest for each address.

| Element name | Element type        | Optional | Description                   |
|--------------|---------------------|----------|-------------------------------|
| Address      | xsd:anyURI          | No       | Address to be set             |
| Successful   | xsd:boolean         | No       | Successfully set rules or not |
| Error        | common:ServiceError | Yes      | Error message if unsuccessful |

## 8 Web Service interface definition

### 8.1 Interface: CallHandling

CallHandling provides a rule based processing capability that is accessible to Applications through a set of operations that allow definition of discrete rules.

#### 8.1.1 Operation: SetRules

Set the call handling rules for an address (the destination for the call). If a set of rules is already in place for any of the **Address**, then this operation will replace the old rules with the set provided in this operation.

The **Address** may not specify a group. If a group is specified, a **PolicyException** will be returned.

##### 8.1.1.1 Input message: SetRulesRequest

| Part name | Part type         | Optional | Description                     |
|-----------|-------------------|----------|---------------------------------|
| Address   | xsd:anyURI        | No       | Address to handle calls for     |
| Rules     | CallHandlingRules | No       | Rules to apply for this address |

##### 8.1.1.2 Output message: SetRulesResponse

| Part name | Part type | Optional | Description |
|-----------|-----------|----------|-------------|
| None      |           |          |             |

##### 8.1.1.3 Referenced faults

ServiceException from 3GPP TS 29.199-1 [6]:

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

PolicyException from 3GPP TS 29.199-1 [6]:

- POL0001: Policy error.
- POL0006: Groups not allowed.

## 8.1.2 Operation: SetRulesForGroup

Set the call handling rules for multiple addresses (the destination for calls). If a set of rules is already in place for any of the **Addresses**, then this operation will replace the old rules with the set provided in this operation.

The **Addresses** may include groups, with members using the 'tel:' and 'sip:' URIs in the manner defined in 3GPP TS 29.119-1 [6]. Wildcards may not be used to specify addresses.

### 8.1.2.1 Input message: SetRulesForGroupRequest

| Part name | Part type                    | Optional | Description                        |
|-----------|------------------------------|----------|------------------------------------|
| Addresses | xsd:anyURI<br>[1..unbounded] | No       | Addresses to handle calls for      |
| Rules     | CallHandlingRules            | No       | Rules to apply for these addresses |

### 8.1.2.2 Output message: SetRulesForGroupResponse

| Part name | Part type                        | Optional | Description                                    |
|-----------|----------------------------------|----------|--|
| Result    | SetRulesResult<br>[1..unbounded] | No       | Result of setup for each of addresses provided |

### 8.1.2.3 Referenced faults

ServiceException from 3GPP TS 29.199-1 [6]:

- SVC0001: Service error.
- SVC0002: Invalid input value.
- SVC0004: No valid addresses.
- SVC0006: Invalid group.

PolicyException from 3GPP TS 29.199-1 [6]:

- POL0001: Policy error.
- POL0006: Groups not allowed.
- POL0007: Nested groups not allowed.

### 8.1.3 Operation: GetRules

Get the call handling rules for an address (the destination for the call).

The **Address** may not specify a group. If a group is specified, a **PolicyException** will be returned.

#### 8.1.3.1 Input message: GetRulesRequest

| Part name | Part type  | Optional | Description                 |
|-----------|------------|----------|-----------------------------|
| Address   | xsd:anyURI | No       | Address to handle calls for |

#### 8.1.3.2 Output message: GetRulesResponse

| Part name | Part type         | Optional | Description                          |
|-----------|-------------------|----------|--------------------------------------|
| Rules     | CallHandlingRules | No       | Rules being applied for this address |

#### 8.1.3.3 Referenced faults

ServiceException from 3GPP TS 29.199-1 [6]:

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

PolicyException from 3GPP TS 29.199-1 [6]:

- POL0001: Policy error.
- POL0006: Groups not allowed.

## 8.1.4 Operation: ClearRules

Clear the call handling rules associated with the addresses specified. If no rules have been set for an address, this operation silently ignores the request, and does not return an error or fault message.

The **Addresses** may include groups, with members using the 'tel:' and 'sip:' URIs in the manner defined in 3GPP TS 29.199-1 [6]. Wildcards may not be used to specify addresses.

### 8.1.4.1 Input message: ClearRulesRequest

| Part name | Part type                    | Optional | Description                          |
|-----------|------------------------------|----------|--------------------------------------|
| Addresses | xsd:anyURI<br>[1..unbounded] | No       | Addresses to clear call handling for |

### 8.1.4.2 Output message: ClearRulesResponse

| Part name | Part type | Optional | Description |
|-----------|-----------|----------|-------------|
| None      |           |          |             |

### 8.1.4.3 Referenced faults

ServiceException from 3GPP TS 29.199-1 [6]:

- SVC0001: Service error.
- SVC0002: Invalid input value.
- SVC0006: Invalid group.

PolicyException from 3GPP TS 29.199-1 [6]:

- POL0001: Policy error.
- POL0006: Groups not allowed.
- POL0007: Nested groups not allowed.



---

## 9 Fault definitions

No new faults defined for this service.

---

## 10 Service policies

| Name                  | Type        | Description  |
|-----------------------|-------------|--|
| VoiceMailAvailable    | xsd:boolean | Voice mail available or not  |
| TextToSpeechAvailable | xsd:boolean | Service accepts text as an input for processing with a Text-To-Speech engine |
| AudioContentAvailable | xsd:boolean | Service accepts audio content for playing with an audio player               |
| VoiceXmlAvailable     | xsd:boolean | Service accepts VoiceXML for processing with a VoiceXML browser              |
| AudioFormatsSupported | xsd:string  | Comma separated string of audio formats supported (e.g. WAV,MP3,AU)          |
| GroupSupport          | xsd:boolean | Groups may be included with addresses  |
| NestedGroupSupport    | xsd:boolean | Are nested groups supported in group definitions                             |

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## Annex A (normative): WSDL for Call handling

The document/literal WSDL representation of this interface specification is compliant to 3GPP TS 29.199-1 [6] and is contained in text files (contained in archive 29199-10-800-doclit.zip) which accompanies the present document.

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## Annex B (informative): Description of Parlay X Web Services Part 10: Call handling for 3GPP2 cdma2000 networks

This annex is intended to define the OSA Parlay X Web Services Stage 3 interface definitions and it provides the complete OSA specifications. It is an extension of OSA Parlay X Web Services specifications capabilities to enable operation in cdma2000 systems environment. They are in alignment with 3GPP2 Stage 1 requirements and Stage 2 architecture defined in:

- [1] 3GPP2 X.S0011-D: 'cdma2000 Wireless IP Network Standard ', Version 1.1
- [2] 3GPP2 S.R0037-0: "IP Network Architecture Model for cdma2000 Spread Spectrum Systems", Version 3.0
- [3] 3GPP2 X.S0013-A: "All-IP Core Network Multimedia Domain"

These requirements are expressed as additions to and/or exclusions from the 3GPP specification.

The information given here is to be used by developers in 3GPP2 cdma2000 network architecture to interpret the 3GPP OSA specifications.

---

### B.1 General Exceptions

The terms 3GPP and UMTS are not applicable for the cdma2000 family of standards. Nevertheless these terms are used (3GPP TR 21.905) mostly in the broader sense of "3G Wireless System". If not stated otherwise there are no additions or exclusions required.

CAMEL mappings are not applicable for cdma2000 systems.

---

### B.2 Specific Exceptions

#### B.2.1 Clause 1: Scope

There are no additions or exclusions.

#### B.2.2 Clause 2: References

There are no additions or exclusions.

#### B.2.3 Clause 3: Definitions and abbreviations

There are no additions or exclusions.

#### B.2.4 Clause 4: Detailed service description

There are no additions or exclusions.

#### B.2.5 Clause 5: Namespaces

There are no additions or exclusions.

## B.2.6 Clause 6: Sequence diagrams

There are no additions or exclusions.

## B.2.7 Clause 7: XML Schema data type definition

There are no additions or exclusions.

## B.2.8 Clause 8: Web Service interface definition

There are no additions or exclusions.

## B.2.9 Clause 9: Fault definitions

There are no additions or exclusions.

## B.2.10 Clause 10: Service policies

There are no additions or exclusions.

## B.2.11 Annex A (normative): WSDL for Call handling

There are no additions or exclusions.

## Annex C (informative): Change history

| Change history |       |           |      |     |   |     |       |       |
|----------------|-------|-----------|------|-----|---|-----|-------|-------|
| Date           | TSG # | TSG Doc.  | CR   | Rev | Subject/Comment   | Cat | Old   | New   |
| Sep 2004       | CN_25 | NP-040360 | --   | --  | Draft v100 submitted to TSG CN#25 for Approval.   | --  | 1.0.0 | 6.0.0 |
| Jun 2005       | CT_28 | CP-050221 | 0001 | --  | Optionals for Part 10   | F   | 6.0.0 | 6.1.0 |
| Dec 2005       | CT_30 | CP-050575 | 0002 | --  | Make elements of the VoicInteraction & CallHandlingRules structure optional                     | F   | 6.1.0 | 6.2.0 |
| Dec 2005       | CT_30 | CP-050575 | 0003 | --  | Inconsistent part naming in PX response messages  | F   | 6.1.0 | 6.2.0 |
| Jun 2006       | CT_32 | CP-060202 | 0004 | --  | Change reference to OSA Stage 2 from 23.127 to 23.198   | F   | 6.2.0 | 6.3.0 |
| Jun 2006       | CT_32 | CP-060202 | 0005 | --  | Apply Union data type element naming convention   | F   | 6.2.0 | 6.3.0 |
| Mar 2007       | CT_35 | CP-070045 | 0006 | -   | Add OSA Parlay Web Services support for 3GPP2 networks  | F   | 6.3.0 | 6.4.0 |
| Mar 2007       | CT_35 | --        | --   | --  | Automatic upgrade to R7 (no CR needed)  | --  | 6.5.0 | 7.0.0 |
| Mar 2007       | --    | --        | --   | --  | Editorial: Aligned 5 Namespaces   | --  | 7.0.0 | 7.0.1 |
| Jun 2007       | --    | --        | --   | --  | Renamed in Introduction Part 18: "Device management" to "Device Capabilities and Configuration" | --  | 7.0.1 | 7.0.2 |
| Dec 2008       | CT_42 | --        | --   | --  | Upgraded unchanged from Rel-7   | --  | 7.0.2 | 8.0.0 |

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## History

| <b>Document history</b> |              |             |
|-------------------------|--------------|-------------|
| V8.0.0                  | January 2009 | Publication |
|                         |              |             |
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