

Open Service Access (OSA); Parlay X Web Services; Part 9: Terminal Location (Parlay X 2)



iTeh STANDARD PREVIEW
(standards.iteh.ai)

Full standard:
<https://standards.iteh.ai/catalog/standards/sist/b3e6c677-5a0f-47da-94c1-e82816577f5a/etsi-es-202-391-9-v1.3.1-2008-05>



Reference

RES/TISPAN-01056-09-OSA

Keywords

API, OSA, service

ETSI

650 Route des Lucioles
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C
Association à but non lucratif enregistrée à la
Sous-Préfecture de Grasse (06) N° 7803/88

Important notice

Individual copies of the present document can be downloaded from:

<http://www.etsi.org>

The present document may be made available in more than one electronic version or in print. In any case of existing or perceived difference in contents between such versions, the reference version is the Portable Document Format (PDF). In case of dispute, the reference shall be the printing on ETSI printers of the PDF version kept on a specific network drive within ETSI Secretariat.

Users of the present document should be aware that the document may be subject to revision or change of status. Information on the current status of this and other ETSI documents is available at

<http://portal.etsi.org/tb/status/status.asp>

If you find errors in the present document, please send your comment to one of the following services:

http://portal.etsi.org/chaicor/ETSI_support.asp

Copyright Notification

No part may be reproduced except as authorized by written permission.
The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 2008.

© The Parlay Group 2008.

All rights reserved.

DECT™, PLUGTESTS™, UMTS™, TIPHON™, the TIPHON logo and the ETSI logo are Trade Marks of ETSI registered for the benefit of its Members.

3GPP™ is a Trade Mark of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners.

Contents

Intellectual Property Rights	5
Foreword.....	5
1 Scope	6
2 References	6
2.1 Normative references	6
3 Definitions and abbreviations.....	7
3.1 Definitions.....	7
3.2 Abbreviations	7
4 Detailed service description	7
5 Namespaces.....	7
6 Sequence diagrams	8
6.1 Terminal location query	8
6.2 Terminal location group query	9
6.3 Terminal location notification	10
6.4 Terminal location notification with check immediate	11
6.5 Terminal location periodic notification	12
7 XML Schema data type definition	13
7.1 Latitude and Longitude values	13
7.2 Accuracy values	13
7.3 EnteringLeavingCriteria enumeration	14
7.4 LocationInfo structure	14
7.5 RetrievalStatus enumeration.....	14
7.6 LocationData structure	14
7.7 DelayTolerance enumeration.....	15
8 Web Service interface definition.....	15
8.1 Interface: TerminalLocation.....	15
8.1.1 Operation: getLocation	15
8.1.1.1 Input message: getLocationRequest.....	15
8.1.1.2 Output message: getLocationResponse.....	15
8.1.1.3 Referenced faults.....	16
8.1.2 Operation: getTerminalDistance	16
8.1.2.1 Input message: getTerminalDistanceRequest	16
8.1.2.2 Output message: getTerminalDistanceResponse	16
8.1.2.3 Referenced faults.....	16
8.1.3 Operation: getLocationForGroup.....	17
8.1.3.1 Input message: getLocationForGroupRequest	17
8.1.3.2 Output message: getLocationForGroupResponse	17
8.1.3.3 Referenced faults.....	17
8.2 Interface: TerminalLocationNotificationManager.....	17
8.2.1 Operation: startGeographicalNotification.....	18
8.2.1.1 Input message: startGeographicalNotificationRequest	18
8.2.1.2 Output message: startGeographicalNotificationResponse	18
8.2.1.3 Referenced faults.....	19
8.2.2 Operation: startPeriodicNotification	19
8.2.2.1 Input message: startPeriodicNotificationRequest.....	19
8.2.2.2 Output message: startPeriodicNotificationResponse	19
8.2.2.3 Referenced faults.....	20
8.2.3 Operation: endNotification	20
8.2.3.1 Input message: endNotificationRequest.....	20
8.2.3.2 Output message: endNotificationResponse	20
8.2.3.3 Referenced faults.....	20

8.3	Interface: TerminalLocationNotification.....	21
8.3.1	Operation: locationNotification	21
8.3.1.1	Input message: locationNotificationRequest.....	21
8.3.1.2	Output message: locationNotificationResponse.....	21
8.3.1.3	Referenced faults.....	21
8.3.2	Operation: locationError	21
8.3.2.1	Input message: locationErrorRequest.....	21
8.3.2.2	Output message: locationErrorResponse.....	21
8.3.2.3	Referenced faults.....	21
8.3.3	Operation: locationEnd	21
8.3.3.1	Input message: locationEndRequest.....	22
8.3.3.2	Output message: locationEndResponse.....	22
8.3.3.3	Referenced faults.....	22
9	Fault definitions.....	22
9.1	ServiceException.....	22
9.1.1	SVC0200: Accuracy out of limit	22
9.2	PolicyException	22
9.2.1	POL0230: Requested accuracy not supported	22
9.2.2	POL0231: Geographic notification not available	22
9.2.3	POL0232: Periodic notification not available.....	22
10	Service policies	23
Annex A (normative):	WSDL for Terminal Location	24
Annex B (informative):	Bibliography.....	25
History		26

iTeh STANDARD PREVIEW
 (standards.iteh.ai)
 Full standard:
<https://standards.iteh.ai/catalog/standards/sist/b3e06677-23-0f-47da-94c1-e82816577f5a/etsi-es-202-391-9-v1.3.1-2008-05>

Intellectual Property Rights

IPRs essential or potentially essential to the present document may have been declared to ETSI. The information pertaining to these essential IPRs, if any, is publicly available for **ETSI members and non-members**, and can be found in ETSI SR 000 314: "*Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards*", which is available from the ETSI Secretariat. Latest updates are available on the ETSI Web server (<http://webapp.etsi.org/IPR/home.asp>).

Pursuant to the ETSI IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETSI SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

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 9 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 29.199-09 V6.5.0 (Release 6).

1 Scope

The present document is part 9 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 Common aspects of the Parlay X 2 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] 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] ISO 6709: "Standard representation of latitude, longitude and altitude for geographic point locations".

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

Terminal Location provides access to the location of a terminal through:

- Request for the location of a terminal.
- Request for the location of a group of terminals.
- Notification of a change in the location of a terminal.
- Notification of terminal location on a periodic basis.
- Location is expressed through a latitude, longitude, altitude and accuracy.

When a request for a group of terminals is made, the response may contain a full or partial set of results. This allows the service to provide results based on a number of criteria including number of terminals for which the request is made and amount of time required to retrieve the information. This allows the requester to initiate additional requests for those terminals for which information was not provided.

5 Namespaces

The Terminal Location interface uses the namespace:

`http://www.csapi.org/wsdl/parlayx/terminal_location/v2_3`

The TerminalLocationNotificationManager interface uses the namespace:

`http://www.csapi.org/wsdl/parlayx/terminal_location/notification_manager/v2_4`

The TerminalLocationNotification interface uses the namespace:

`http://www.csapi.org/wsdl/parlayx/terminal_location/notification/v2_2`

The data types are defined in the namespace:

`http://www.csapi.org/schema/parlayx/terminal_location/v2_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 Terminal location query

Pattern: Request / Response.

For an application to determine the location of a terminal device, it provides a terminal device address and desired accuracy, and receives the location for the device requested.

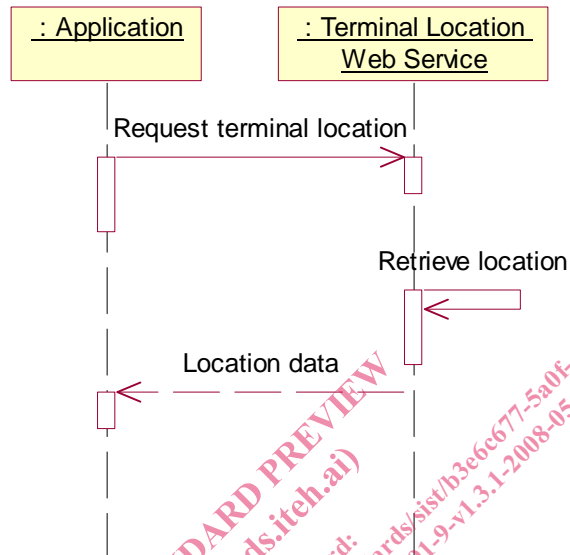


Figure 1

ITeH STANDARD PREVIEW
(standards.iteh.ai)
Full standard:
<https://standards.iteh.ai/catalog/standards/sist/b3e6c677-5a0f-47da-94c1-e82816577f5a/etsi-es-202-391-9-v1.3.1-2008-05>

6.2 Terminal location group query

Pattern: Request / Response.

When an application requires the locations of a set of terminal devices, it may provide an array of terminal device addresses, including network managed group addresses, and receive the location data for the set of devices requested.

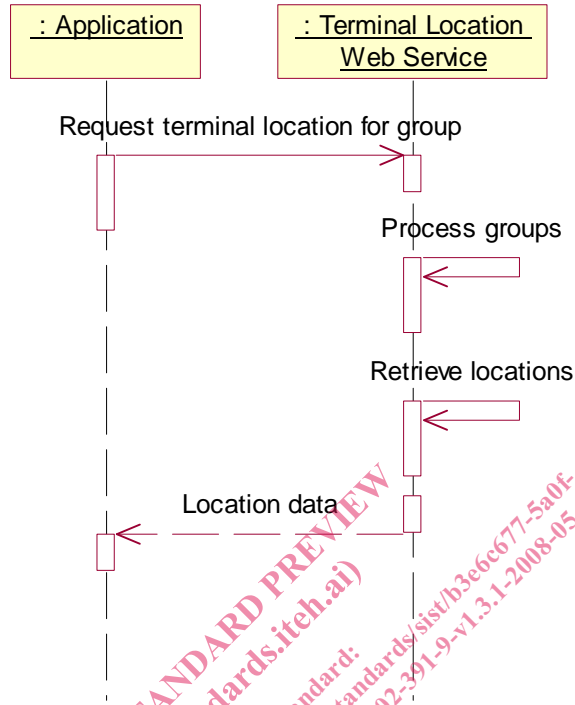


Figure 2

ITeH STANDARD PREVIEW
 (standards.iteh.ai)
 Full standard:
<https://standards.iteh.ai/catalog/standards/sist/b3e6c677-5a0f-47da-94c1-e82816577f5a/etsi-es-202-391-9-v1.3.1-2008-05>

6.3 Terminal location notification

Pattern: Application Correlated Multiple Notification.

An application can be notified of a terminal device entering or leaving a geographical area. When a matching event occurs; a notification message will be sent to the application.

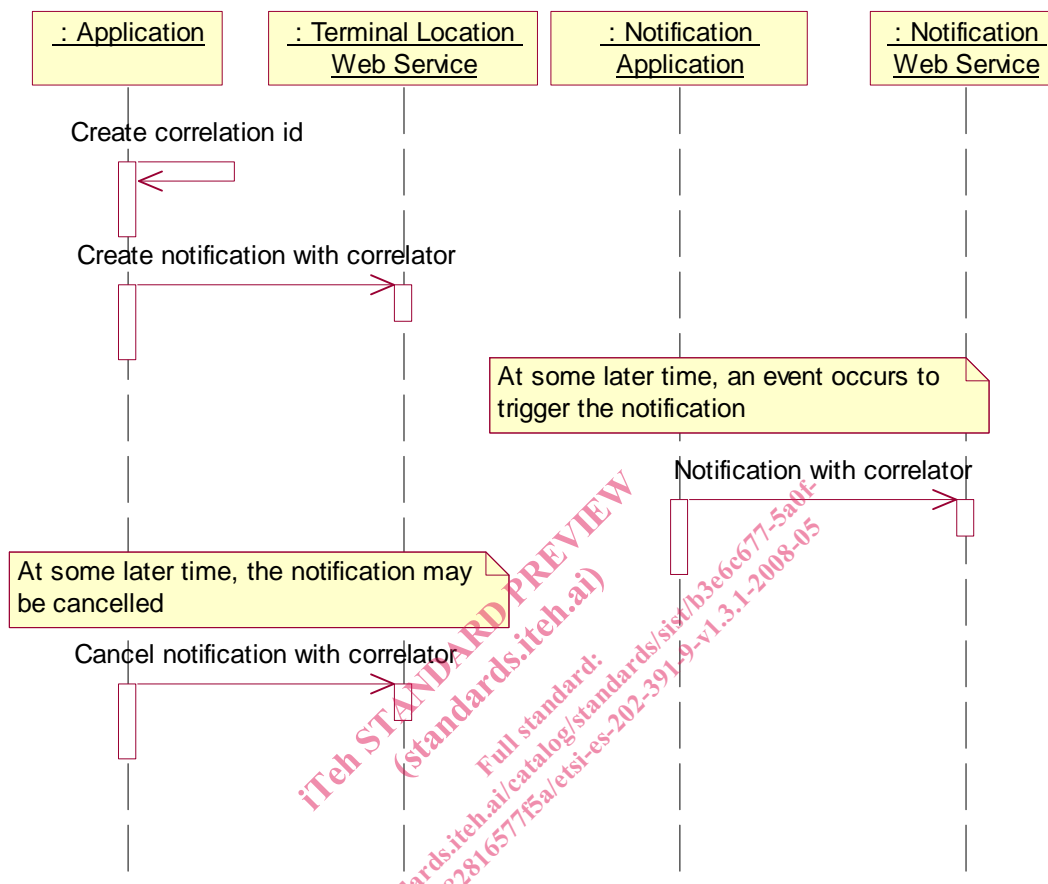


Figure 3