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Technical Specification

3rd Generation Partnership Project;
Technical Specification Group Core Network and Terminals;
Telecommunications and Internet converged Services and
Protocols for Advanced Networking (TISPAN);
Presence Service Capability;
Protocol Specification
[3GPP TS 24.141 V7.0.0, modified and OMA-TS-Presence_SIMPLE-V1_0, modified]





(Release 8)

The present document has been developed within the 3rd Generation Partnership Project (3GPP TM) and may be further elaborated for the purposes of 3GPP.

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3GPP

Postal address

3GPP support office address
650 Route des Lucioles - Sophia Antipolis
Valbonne - FRANCE

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

Internet

http://www.3gpp.org

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Foreword

This Technical Specification (TS) was been produced by ETSI Technical Committee Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN) and originally published as ETSI ES 283 030 [10]. It was transferred to the 3rd Generation Partnership Project (3GPP) in December 2007.

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.

1 Scope

The present document provides the protocol details for the presence service within the IP Multimedia (IM) Core Network (CN) subsystem based on the Session Initiation Protocol (SIP) and SIP Events as defined in ES 283 003 [1].

Where possible the present document specifies the requirements for this protocol by reference to specifications produced by the IETF within the scope of SIP and SIP Events, either directly, or as modified by ES 283 003 [1].

The Presence XDMS and Resource List Server (RLS) specific data formats and XCAP application usages are within the scope of the present document. These are used within the context of the generic XDM capability described in TS 183 038 [2].

The present document is applicable to Application Servers (ASs) and User Equipment (UE) providing presence functionality.

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.

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

[1]	ETSI ES 283 003: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); IP Multimedia Call Control Protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP) Stage 3 [3GPP TS 24.229 (Release 7), modified]".
[2]	FTSLTS 183 038: "Talaco mmunications and Internet converged Services and Protocols for

- [2] ETSI TS 183 038: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); PSTN/ISDN Simulation Services; Extensible Markup Language (XML) Document Management; Protocol Specification (Endorsement of OMA-TS-XDM_Core-V1_0-20051103-C and OMA-TS-XDM_Shared-V1_0-20051006-C)".
- [3] 3GPP TS 24.141: "3rd Generation Partnership Project; Technical Specification Group Core Network; Presence service using the IP Multimedia (IM) Core Network (CN) subsystem; Stage 3 (Release 7)".
- [4] OMA-TS-Presence-SIMPLE-V1-0: "Presence SIMPLE specification".
- [5] ETSI TS 187 003: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPA N); NGN Security; Security Architecture".
- [6] ETSI TS 182 008: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); Presence Service; Architecture and functional description (Endorsement of 3GPP TS 23.141 and OMA-AD-Presence-SIMPLE-V1-0)".
- [7] ETSI TS 182 006: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); IP Multimedia Subsystem (IMS); Stage 2 description (3GPP TS 23.228 v7.2.0, modified)".

[8]	ETSI TS 183 033: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); IP Multimedia; Diameter based protocol for the interfaces between the Call Session Control Function and the User Profile Server Function/Subscription Locator Function; Signalling flows and protocol details [3GPP TS 29.228 V6.8.0 and 3GPP TS 29.229 V6.6.0, modified]".
[9]	ETSI TR 180 000: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); NGN Terminology".
[10]	ETSI ES 283 030 V1.1.1: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); Presence Service Capability; Protocol Specification [3GPPTS 24.141 V7.0.0, modified and OMA-TS-Presence_SIMPLE-V1_0, modified]".

Endorsement notice

The present document, in conjunction with 3GPP TS 24.141 [3] and OMA-TS-Presence_SIMPLE-V1_0 [4] provides part of the specifications for the stage 3 of the presence service for NGNs.

Endorsement of OMA-TS-Presence_SIMPLE-V1_0

This clause provides an endorsement of OMA "Presence SIMPLE Specification", Candidate Version 1.0 - 22 Nov 2005, OMA-TS-presence_SIMPLE-V1_0-20051122-C [4].

The elements of OMA "Presence SIMPLE Specification", Candidate Version 1.0 - 22 Nov 2005, OMA-TS-presence_SIMPLE-V1_0-20051122-C [4] apply, with the following modifications.

References to 3GPP2 documents are not applicable in any of the clauses of the present document.

The references listed in table 1 are replaced by references applicable to NGN.

Table 1: List of references to be replaced

Reference no.	OMA-TS-Presence_SIMPLE- V1_0	Applicable reference in the present document
CONTENTIND	Draft-ietf-sip-content-indirect- mech-05 "A Mechanism for Content Indirection in Session Initiation Protocol (SIP) Messages".	IETF RFC 4483 (May 2006): "A Mechanism for Content Indirection in Session Initiation Protocol (SIP) Messages".
EVENTLIST	Draft-ietf-simple-event-list-06: "A Session Initiation Protocol (SIP) Event Notification Extension for Resource Lists".	IETF RFC 4662 (August 2006): "A Session Initiation Protocol (SIP) Event Notification Extension for Resource Lists".
FILTERFORMAT	Draft-ietf-simple-filter-format-05: "An Extensible Markup Language (XML) Based Format for Event Notification Filtering".	IETF RFC 4661 (September 2006): "An Extensible Markup Language (XML) Based Format for Event Notification Filtering".
FILTER	draft-ietf-simple-event-filter-funct- 05: "Functional Description of Event Notification Filtering".	IETF RFC 4660 (September 2006): "Functional Description of Event Notification Filtering".
PARNOT	draft-ietf-simple-partial-notify-06: "Session Initiation Protocol (SIP) extension for Partial Notification of Presence Information".	IETF RFC 5263 (September 2008): "Session Initiation Protocol (SIP) extension for Partial Notification of Presence Information".
PARFOR MAT	draft-ietf-simple-partial-pidf- format-05: "Presence Information Data format (PIDF) Extension for Partial Presence".	IETF RFC 5262 (September 2008): "Presence Information Data Format (PIDF) Extension for Partial Presence".
PIDFLO	draft-ietf-geopriv-pidf-lo-03: "Presence-based GEOPRIV Location Object Format".	IETF RFC 4119 (December 2005): "A Presence-based GEOPRIV Location Object Format".
PRESDATAMODEL	draft-ietf-simple-presence-data-	IETF RFC 4479 (July 2006): "A Data Model for Presence".

Reference no.	OMA-TS-Presence_SIMPLE- V1_0	Applicable reference in the present document		
	model-06: "A Data Model for Presence".			
PRESRULES	draft-ietf-simple-presence-rules- 03: "Presence Authorization Rules".	IETF RFC 5025 (December 2007): "Presence Authorization Rules".		
RPID	draft-ietf-simple-mid-09: "RPID: Rich Presence Extensions to the Presence Information Data Format (PIDF)".	IETF RFC 4480 (July 2006): "RPID: Rich Presence Extensions to the Presence Information Data Format (PIDF)".		
XC AP_Diff	draft-ietf-simple-xcap-diff-01: "An Extensible Markup Language (XML) Document Format for Indicating Changes in XML Configuration Access Protocol (XCAP) Resources".	IETF RFC 4483 (May 2006): "A Mechanism for Content Indirection in Session Initiation Protocol (SIP) Messages".		
3GPP TS 24.141 [3]	"Presence service using the IP Multimedia (IM) Core Network (CN) subsystem; Stage-3".	The present document.		
3GPP TS 32.260	"Charging Management; IP Multimedia Subsystem (IMS) Charging".	Not required by the present document.		
3GPP TS 33.141	"Presence Service; Security".	Not required for the present document refer to TS 187 003 [5].		

Clause 1 does not apply.

Clause 5 does not apply with the exceptions of clauses 5.4.3, 5.4.5, 5.5.4 and 5.6 to 5.10.

Clause 6 does not apply.

Clause 7 does not apply.

Clause 8 does not apply and is outside the scope of the present document.

Clause 9 does not apply and is covered in ES 283 003 [1].

Clause 10 does not apply with the exception of clause 10.5.

NOTE 1: Care must be taken when using the willingness PIDF element as it is unclear as to the meaning of this for the various entities involved.

Presence service providers shall ensure that a single composition policy is presented for individual presentities (e.g. such that where a presentity is supported by multiple presence servers there is no change in the view seen by watchers).

NOTE 2: A specification of a suitable single composition policy is given in OMA-TS-Presence_SIMPLE-V1_0 [4] subclauses 5.4.3. IETF is in the process of developing guidelines for composition policies.

Clause 11 does not apply and is covered in ES 283 003 [1].

Appendix A does not apply.

Appendix B does not apply. Device management is outside the scope of the present document.

Appendix C does not apply. Continuous provisioning is outside the scope of the present document.

Appendix E does not apply. Filter criteria is outside the scope of the present document.

Endorsement of 3GPP TS 24.141

This clause provides an endorsement of 3GPP TS 24.141 V7.0.0 [3] "Presence service using the IP Multimedia (IM) Core Network (CN) subsystem".

The elements of 3GPP TS 24.141 V7.0.0 (2005-12) [3] "Presence service using the IP Multimedia (IM) Core Network (CN) subsystem" apply, with the following modifications:

The references listed in table 2 are replaced by references applicable to NGN.

Table 2: List of references to be replaced

Reference no.	Reference in 3GPP TS 24.141	Applicable reference in the present document
[3]	3GPP TS 23.141: "Presence service; Architecture and functional description; Stage 2".	TS 182 008 [6]: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); Presence Service; Architecture and functional description (Endorsement of 3GPP TS 23.141 and OMA-AD-Presence_SIMPLE-V1_0)".
[5]	3GPP TS 23.228: "IP Multimedia Subsystem (IMS); Stage 2".	TS 182 006 [7]: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); IP Multimedia Subsystem (IMS); Stage 2 description (3GPP TS 23.228 v7.2.0, modified)".
[9]	3GPP TS 24.229: "Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3".	ES 283 003 [1]: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); Endorsement of "IP Multimedia Call Control Protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP) Stage 3 (Release 6)" for NGN Release 1".
[10]	3GPP TS 29.228: "IP Multimedia (IM) Subsystem Cx and Dx Interfaces; Signalling flows and message contents".	TS 183 033 [8]: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); IP Multimedia: IP Multimedia Subsystem (IMS) Cx and Dx Interfaces; Signalling flows and message contents and IP Multimedia (IM) Subsystem Cx and Dx Interfaces; Cx and Dx interfaces based on the Diameter protocol [3GPP TS.29.228 V.6.8.0 and 3GPP TS.29.229 V.6.6.0, modified]".
[24]	draft-ietf-simple-partial-notify-05 (May 2005): "Session Initiation Protocol (SIP) extension for Partial Notification of Presence Information".	IETF RFC 5263 (September 2008): "Session Initiation Protocol (SIP) extension for Partial Notification of Presence Information".
[25]	draft-ietf-simple-prescaps-ext-04 (June 2005): "User Agent Capability Extension to Presence Information Data Format (PIDF)".	IETF RFC 5196 (September 2008): "Session Initiation Protocol (SIP) User Agent Capability Extension to Presence Information Data Format (PIDF)".
[26]	draft-ietf-simple-mid-08 (July2005): "RPID: Rich Presence Extensions to the Presence Information Data Format (PIDF)".	IETF RFC 4480 (July 2006): "RPID: Rich Presence Extensions to the Presence Information Data Format (PIDF)".
[30]	draft-ietf-simple-filter-format-05 (March 2005): "An Extensible Markup Language (XML) Based Format for Event Notification Filtering"	IETF RFC 4661 (September 2006): "An Extensible Markup Language (XML) Based Format for Event Notification Filtering".
[31]	draft-ietf-simple-event-filter-funct-05 (March 2005): "Functional Description of Event Notification Filtering".	IETF RFC 4660 (September 2006): "Functional Description of Event Notification Filtering".
[32]	draft-ietf-simple-cipid-06 (July 2005): "CIPID: Contact Information in Presence Information Data Format".	IETF RFC 4482 (July 2006): "CIPID: Contact Information for the Presence Information Data Format".
[37]	draft-ietf-geopriv-pidf-lo-03 (September 2004): "A Presence-based GEOPRIV Location Object Format".	IETF RFC 4119 (December 2005): "A Presence-based GEOPRIV Location Object Format".

Reference no.	Reference in 3GPP TS 24.141	Applicable reference in the present document
[38]	draft-ietf-simple-partial-pidf-format-02 (October 2004): "Presence Information Data Format (PIDF) Extension for Partial Presence".	IETF RFC 5262 (September 2008): "Presence Information Data Format (PIDF) Extension for Partial Presence".
[39]	draft-ietf-simple-xcap-diff-01 (July 2005): "An Extensible Markup Language (XML) Document Format for Indicating Changes in XML Configuration Access Protocol (XCAP) Resources".	IETF RFC 5874 (May 2010): "An Extensible Markup Language (XML) Document Format for Indicating a Change in XML Configuration Access Protocol (XCAP) Resources".
[40]	draft-ietf-sip-content-indirect-mech-05 (October 2004): "A Mechanism for Content Indirection in Session Initiation Protocol (SIP) Messages".	IETF RFC 4483 (May 2006): "A Mechanism for Content Indirection in Session Initiation Protocol (SIP) Messages".
[43]	draft-ietf-sipping-config-framework-06 (February 2005): "A Framework for Session Initiation Protocol User Agent Profile Delivery".	IETF RFC 5875 (May 2010): "An Extensible Markup Language (XML) Configuration Access Protocol (XCAP) Diff Event Package".
[44]	draft-ietf-simple-presence-data-model-04 (August 2005): "A Data Model for Presence".	IETF RFC 4479 (July 2006): "A Data Model for Presence".
[45]	draft-ietf-simple-partial-publish-03 (July 2005): "Publication of Partial Presence Information".	IETF RFC 5264 (September 2008): "Publication of Partial Presence Information".

Clause 1 does not apply.

Clause 3.1: the definition of UE is replaced by the definition agreed in TR 180 000 [9].

Clause 6 does not apply. This will be covered in the TS 183 038 [2] and the presence specific part of the OMA above.

Clause A.8 does not apply.

Annex ZA (informative): Void

Annex ZZ (informative): Change history

Change history							
Date	TSG#	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2006-04					Publication as ETSI ES 283 030		1.1.1
2007-12					Conversion to 3GPP TS 24.430		1.1.2
2008-03	CT-39	CP-080085			Version 1.1.2 approved in CP-080085 and version 7.0.0 created by MCC for publication	1.1.2	7.0.0
2008-03					Based on the decision in CT-39 version 8.0.0 created by MCC	7.0.0	8.0.0
2010-12	CT-50	CP-100722	000 3		IETF reference updates	8.0.0	8.1.0