# 3GPP TSG CN Plenary Meeting #20 4<sup>th</sup> - 6<sup>th</sup> June 2003. HÄMEENLINNA, Finland.

Source: TSG CN WG 1

Title: Presence service based on Session Initiation Protocol

(SIP); Functional models, information flows and protocol details

Agenda item: 11

Document for: INFORMATION,- Draft technical report 3GPP TS 24.841 v1.0.0

### Presentation of Technical Report to TSG or WG

Presentation to: TSG CN Meeting #20

Document for presentation: TR, Version 1.0.0

**Presented for:** Information

#### **Abstract of document:**

The document is a temporary container for the functional models, flows and 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. The contents of this report when stable will be moved into the Technical Specification 3GPP TS 23.218 [3], 3GPP TS 24.228 [4] and 3GPP TS 24.229 [5] and a new Technical Specification for Presence.

Where possible the document specifies the requirements for this protocol by reference to specifications produced by the IETF within the scope of SIP and SIP Events. Where this is not possible, extensions to SIP are defined within the present document. The document has therefore been structured in order to allow both forms of specification.

The document includes information applicable to network operators, service providers and manufacturers.

Agreed material is held in this TR for an interim period of time, and the material transferred into release 6 versions of 23.218, 24.228 and 24.229 at a later time.

This TR will not be published.

#### Changes since last presentation to TSG Meeting #:

First time seen in a Plenary.

#### **Outstanding Issues:**

As this document is meant to be a repository for information to create all the documentation in WG CN1 for Presence, the outstanding issues are all the remaining Presence open issues. WG CN1 has been maintaining an issues list for this work item, and the contents of this are attached.

#### **Contentious Issues:**

None of the issues identified are contentious within WG CN1.

Some of the issues identified are still undergoing resolution in WG SA2, e.g. those relating to PSI's; these are generic within the IM CN subsystem, rather than specific to Presence.

There are issues in the referenced IETF documentation where resolution is providing contentious. Fundamental discussions are still ongoing on "What is a tuple"

## Presence WID open issues list

### Introduction

This open item list identifies the tasks within that work item that still need to be resolved in TR 24.841 for Rel-6, and subsequently for changes made to TS 23.218, 24.228 and 24.229.

This study has been done to identify the still missing principal decisions and other major open issues in the Presence WID under CN1 control. The intention is not to take this open items list to the granularity of a individual CRs.

Because of these reasons the list is not exhaustive so it should not be considered as comprehensive list of all CRs that are needed to complete the CN1 Presence WID. It can be foreseen that not only the CRs to close the listed open items but also other CRs outside the list will be needed.

But the intention is to list all such open items which are likely to impact the scheduling and work amount estimates on the work item.

This document takes no position in how an open item is closed unless it is explicitly stated. So it may happen that an open item in the CN1 document is covered by removing the whole clause from the TR.

It is the intention of the maintainer to maintain this document until it becomes redundant at the full stabilisation of Rel-6 Presence related CN1 TSs.

The colour coding of the table is as follows:

After CN1 Meeting	27	28	29	30				
Red = not done	41	36	30	23				
Yellow = partly done	0	5	11	12				
Green = completed	0	3	10	16				
Total	41	44	51	51				

## Proposal

The document should be noted.

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voiunteers are requ	dested for unassigned	i open issues, aion	g with the necessar	v tecimicai n	iput in the ruture.

Input is requested on identifying other open issues, or missing information or incorrect status in any of the issues.

# Open issues

No.	Issue	TR / TS	CRs	Comment
1	General issues	l		<u> </u>
2	Issues related to dependent IETF drafts			
2.1	The namespace in the XML schema for Instant Messaging xmlns:im="urn:ietf:params:xml:ns:cpim- pidf:im" has not been defined yet in IETF.		_	
2.2	It needs further investigation whether draft-roach-sip- list-template-00.txt effects the flows and changes the Event the UE is subscribing for.		N1-030525 N1-030526	
2.3	The mechanism for modifying the authorisation policy document			Need to await agreement of solution by SIMPLE working group before this can be completed
2.4	The PUBLISH method is expected to undergo major revision in the near future, e.g. to provide a dialog based mechanism, and a review of the headers.			draft-olson-simple-publish-02.txt provided which does not contain a dialog mechanism. It has now been agreed that there will be no dialog mechanism for publish. Some revisions are expected which will need to be taken into account
2.5	One solution to the requirements that are expressed in draft-kiss-simple-winfo-filter-reqs-00 is in draft-khartabil-simple-winfo-filter-00. When the SIMPLE WG agrees the way forward for solutions to the requirements in this draft, the references will require amendment to reflect the agreed solution document.			
2.6	One solution to the requirements that are expressed in draft-moran-simple-pres-filter-reqs-00 is in draft-khartabil-simple-presence-filter-00. When the SIMPLE WG agrees the way forward for solutions to the requirements in this draft, the references will require amendment to reflect the agreed solution document.			

2.7	One solution to the requirements that are expressed in			
2.1	draft-lonnfors-simple-presinfo-deliv-reqs-00 is in			
	draft-lonnfors-simple-partial-notify-00. When the			
	SIMPLE WG agrees the way forward for solutions to			
	the requirements in this draft, the above reference			
	will require amendment to reflect the agreed solution document.			
	document.			
3	Issues related to clause 5 (23.218)			
	Note - this material could well be directed to the pro	posed new TS o	n Presence	
3.1	Inclusion of contents for clause 5.1 (Introduction)	24.841		
3.2	Inclusion of contents for clause 5.2 (Presence Server (PS))	24.841		
3.3	Inclusion of contents for clause 5.3.1 (Network-based Presence User Agent (PUA))	24.841		
3.4	Inclusion of contents for clause 5.3.2 (Presence	24.841		
	Network Agents (PNA))			
3.5	Inclusion of contents for clause 5.3.3 (Presence external agent)	24.841		
3.6	Inclusion of contents for clause 5.4 (Network-based watcher applications)	24.841		
3.7	Inclusion of contents for clause 5.5 (Presence List Server (PLS))	24.841		Entity is now a Resource List
				Server
4	Issues related to clause 6 (24,228)			Server
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because 23.141 CR010R5 and CR026R1 specify that this interface should not be standardised  4.3.7 Changes in 6.1.3.1, 6.1.3.2 to accommodate 23.228 6.1.0 requirements on PSI routing  24.841 N1-030901 Nokia Status partly done because stage 2 is still undergoing revision	because 23.141 CR010R5 and CR026R1 specify that this interface should not be standardised  4.3.7 Changes in 6.1.3.1, 6.1.3.2 to accommodate 23.228 6.1.0 requirements on PSI routing  Status partly done because stage 2 is still undergoing
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	4.3.8 Remove event header from responses 24.841, 24.228 N1-030796 Nokia
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groups/sip/current/msg07854.html	http://www.ietf.org/mail-archive/working-
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5.2 Issues related to clause 7.2 (Application usage of SIP)	groups/sip/current/msg07854.html  5
5.2.1 Issues relating to clause 7.2.1 (Application usage of 24.841 N1-030529	groups/sip/current/msg07854.html  5
	groups/sip/current/msg07854.html  5
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24.041, 24.226 N1-030790 NOKId	4.3.8 Remove event header from responses 24.841, 24.228, N1.030706, Nolvie
http://www.ietf.org/mail-archive/working-	
	http://www.jetf.org/mail.archive/working
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5.2.1 Issues relating to clause 7.2.1 (Application usage of 24.841 N1-030529	groups/sip/current/msg07854.html  5
5.2.1 Issues relating to clause 7.2.1 (Application usage of SIP - procedures at the UE - usage of PUBLISH)  N1-030529	groups/sip/current/msg07854.html  5
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5.2.4	Issues relating to clause 7.2.1 (Application usage of	24.841	N1-030531	
	SIP - procedures at the UE - how the watcher information is collected by the Presence Server and provided to the presentity)			
5.2.5	Issues relating to clause 7.2.1 (Application usage of SIP - procedures at the UE - how the watchers can set filters in SUBSCRIBE requests)	24.841	N1-030532	Need to await agreement of solution by SIMPLE working group before this can be completed Nokia
5.2.6	Issues relating to clause 7.2.1 (Application usage of SIP - procedures at the UE - the details (syntax/semantics) of the authorization policy definitions; the usage of watcherinfo template package in IMS; the details how the authorisation policy is uploaded to Presence Server; the details how groups can be referenced; multiple value concept)	24.841	N1-030274	Authorization:  Need to await agreement of solution by SIMPLE working group before this can be completed  Nokia
5.2.7	Issues relating to clause 7.2.2 (Application usage of SIP - procedures at the Application Server - how the watchers applies filters in NOTIFY requests)	24.841	N1-030532	Need to await agreement of solution by SIMPLE working group before this can be completed Nokia
5.2.8	Issues relating to clause 7.2.2 (Application usage of SIP - procedures at the Application Server - the usage of PUBLISH request in IMS; when a PUA publishes; when a PNA publishes (how and what is transformed via ISC and Sh); the details of the Presence Server's composition policy (the latter may be a 23.218 issue))	24.841	N1-030529	how and what is transformed via ISC and Sh no longer an open issue
5.2.9	Issues relating to clause 7.2.2 (Application usage of SIP - procedures at the Application Server - the behaviour for fetching presence information; the behaviour for subscribing for presence information; providing full state or partial state notifications)	24.841	N1-030530 N1-030533	Nokia
5.2.10	Issues relating to clause 7.2.2 (Application usage of SIP - procedures at the Application Server - the details (syntax/semantics) of the authorisation policy definitions; the usage of watcherinfo template package in IMS; the details how the authorisation policy is uploaded to Presence Server; the details how groups can be referenced; multiple value concept)	24.841		Nokia  Need to await agreement of solution by SIMPLE working group before this can be completed
5.2.11	Issues relating to clause 7.2.2 (Application usage of SIP - procedures at the Application Server - how the watchers subscribe and get notified of the presencelist event package and how the PLS collects	24.841	N1-030526	Changed to resource list

	the information)			
5.2.12	Issues relating to clause 7.2.2 (Application usage of SIP - procedures at the Application Server - this clause describes how the watcher information is collected by the Presence Server and provided to the presentity)	24.841	N1-030531	
5.2.13	Issues relating to clause 7.2.2 (Application usage of SIP - procedures at the Application Server - mechanism for the presentity to provide authorisation)	24.841		Need to await agreement of solution by SIMPLE working group before this can be completed
5.2.14	Issues relating to clause 7.2.2 (Application usage of SIP - procedures at the Application Server - mechanism to verify the identity of the user is FFS. One possible mechanism to verify the identity of the watcher is that the PS challenges the watcher by issuing a 401 (Unauthorized) response including a challenge (as per normal procedures described in RFC 3261). Later, when the PS receives a SUBSCRIBE request that contains credentials but it does not contain a P-Asserted-Identity, the PS will check the credentials to verify the identity of the watcher. Another possible mechanism is that an edge proxy, such as the I-CSCF verifies the identity of the user and inserts a P-Asserted-Identity.	24.841	N1-030273	Issues revised to:  it is not clear what are the mechanisms available to transport the credentials. These mechanisms can include, among others, P-Asserted-Identity, Authorization header, digital signatures, S/MIME body, etc.  It needs to be investigated whether the maximum number of times predefined in the PS configuration data creates a potential denial of service attack, as it requires the PS to keep states between different duthentications trials.
5.2.15	Change to S-CSCF handling to allow S-CSCF not to Record-Route for SUBSCRIBE requests/responses as	24.841	N1-030460	Nokia
	a result of change in requirements in 23.141 CR025R0. It is assumed that this change will be made general for all SUBSCRIBE requests passing		N1-030800	

	through the S-CSCF, rather than being specific to			
	presence related events, and will apply to both release			
	5 and release 6. Note that the storage of information			
	for clearing of the dialog will need to be related to			
	whether a dialog is now record routed or not.			
5.1.16	Incorporation of new requirement introduced by	24.841		Query as to
3.1.10	23.141 CR023 as follows: "In case of presence	24.041		whether
	information fetch or subscription from a watcher that			behaviour is
	has not been authorised by the subscription			already
	authorisation policies, the presence server shall put			described in
	the fetch or subscription on hold until the watcher has			simple-
	been authorised, added to the subscription			presence draft
	authorisation lists or until a preconfigured timer has			
	expired."			
5.2.17	Reference to RPIDS I-D	24.841	N1-030793	Nokia
	Rich Presence Information Data Format for Presence			
	Based on the Session Initiation Protocol			
	droft schulzrinne simple roids 02 tvt			
	draft-schulzrinne-simple-rpids-02.txt			
5.2.18	Reference to BINPIDF I-D	24.841	N1-030902	Nokia
	BINPIDF - External Object Extension to Presence			
	Information Data Format			
	doctributes of the side of the			
	draft-lonnfors-simple-binpidf-00			
5.3	Issues relating to clause 7.3 (Extensions within the p	resent docume	nt)	
5.3.1	new document type needed for partial notification.	24.841	N1-030533	Nortel?, Nokia
5.3.2	Changes to location information in 3gppPresence as a	24.841	N1-030272	Nortel?
	result of change of requirements defined in 23.141			.
	CR017 R2			
5.3.3	Add timestamp to location information in accordance	24.841		
5.5.5	with 23.141 CR040	24.041		
524				
5.3.4	Addition of application identifiers to presence	24.841		
<del></del>	Addition of application identifiers to presence information as indicated in CR049 to 23.141	24.841	-	
5.4			M CN subsystem	
	information as indicated in CR049 to 23.141		M CN subsystem	
	Issues relating to clause 7.4 (GPRS aspects when con None identified	nnected to the I		
5.4	Issues relating to clause 7.4 (GPRS aspects when continuous relating to clause 7.5 (Profiles of IETF RFCs)	nnected to the I		
5.4	Issues relating to clause 7.4 (GPRS aspects when con None identified  Issues relating to clause 7.5 (Profiles of IETF RFCs  Roles table needs extending to show presence entity	nnected to the I		
5.4 5.5 5.5.1	Issues relating to clause 7.4 (GPRS aspects when convenient to clause 7.5 (Profiles of IETF RFCs)  Roles table needs extending to show presence entity roles	for 3GPP usage	2)	
5.4	Issues relating to clause 7.4 (GPRS aspects when convenient to clause 7.5 (Profiles of IETF RFCs)  Roles table needs extending to show presence entity roles  PUBLISH method needs updating to show new	nnected to the I		Subsequent
5.4 5.5 5.5.1	Issues relating to clause 7.4 (GPRS aspects when convenient to clause 7.5 (Profiles of IETF RFCs)  Roles table needs extending to show presence entity roles	for 3GPP usage	N1-030110	Subsequent versions may
5.4 5.5 5.5.1	Issues relating to clause 7.4 (GPRS aspects when convenient to clause 7.5 (Profiles of IETF RFCs)  Roles table needs extending to show presence entity roles  PUBLISH method needs updating to show new	for 3GPP usage	2)	Subsequent versions may introduce
5.4 5.5 5.5.1	Issues relating to clause 7.4 (GPRS aspects when convenient to clause 7.5 (Profiles of IETF RFCs)  Roles table needs extending to show presence entity roles  PUBLISH method needs updating to show new	for 3GPP usage	N1-030110	Subsequent versions may introduce further
5.4 5.5 5.5.1	Issues relating to clause 7.4 (GPRS aspects when convenient to clause 7.5 (Profiles of IETF RFCs)  Roles table needs extending to show presence entity roles  PUBLISH method needs updating to show new	for 3GPP usage	N1-030110	Subsequent versions may introduce
5.4 5.5 5.5.1	Issues relating to clause 7.4 (GPRS aspects when convenient to clause 7.5 (Profiles of IETF RFCs)  Roles table needs extending to show presence entity roles  PUBLISH method needs updating to show new	for 3GPP usage	N1-030110	Subsequent versions may introduce further changes 2hich will be dealt with in this
5.4 5.5 5.5.1	Issues relating to clause 7.4 (GPRS aspects when convenient to clause 7.5 (Profiles of IETF RFCs)  Roles table needs extending to show presence entity roles  PUBLISH method needs updating to show new	for 3GPP usage	N1-030110	Subsequent versions may introduce further changes 2hich will be dealt
5.4 5.5 5.5.1	Issues relating to clause 7.4 (GPRS aspects when convenient to clause 7.5 (Profiles of IETF RFCs)  Roles table needs extending to show presence entity roles  PUBLISH method needs updating to show new	for 3GPP usage	N1-030110	Subsequent versions may introduce further changes 2hich will be dealt with in this

5.5.3	PUBLISH method needs updating to show charging headers	24.841	N1-030764	Lucent?
5.5.4	PUBLISH method needs updating to show P-Access-Network-Info header	24.841	N1-030764	Lucent?