

**Source:** TSG CN WG 1  
**Title:** WID: Presence  
**Agenda item:** 9.11  
**Document for:** APPROVAL

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**3GPP TSG-CN1 Meeting #21**  
**Cancun, Mexico, 26.- 30. November 2001**

***Tdoc N1-012020***  
**was *Tdoc N1-011930, N1-011968***

**Source:** Lucent Technologies  
**Title:** WID: Presence  
**Agenda item:** 4.00  
**Document for:** APPROVAL

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## **Introduction**

Work on a presence service is reaching completion in SA1, and is now being actively addressed within SA2.

It is appropriate that CN starts considering how to programme the work into its schedule. This contribution therefore presents a draft work item for discussion and refinement.

A number of solutions are proposed at SA2 in order to support the presence service. It is not the intent of this contribution to preclude any solutions. There seems however to be definite support for at least an IM CN subsystem based solution, and material in support of that solution has been included in this proposed work item.

## **Timescales**

There are a number of fundamental architectural decisions outstanding from SA2, and therefore it is not currently possible to start work in CN1 at this meeting. Most fundamental is the decision as to which IM CN subsystem entity forms the presence server, and the relation of that presence server with other IM CN subsystem entities.

Once those decisions have been made then the remainder of the work at the CN1 level may be less than major, given that the Events draft is already supported to some extent within the IM CN subsystem entities.

We would therefore suggest that a date of March 2002 is too early for the completion of the CN work, but it would be possible to conceive of a solution by September 2002. It should be noted that rather than trying to plan this into a release, we should provide dates that are realistic for completion, and leave TSG SA to identify when it is attractive to provide a release.

## **Documentation**

The list of dependent IETF drafts is extracted from the SA2 liaison statement contained in N1-011727.

The main documentation for this service is obviously TS 24.229 as this defines the operation of the SIP protocol on all interfaces within the IM CN subsystem.

While the work item shows a revision of TS 24.228 and TS 23.218, these could conceivably also be dealt with as new documents with a scope of presence only.

## **Proposals**

The proposal is currently drafted as a WI for all the work in CN. We would welcome views on whether there should be a CN1 specific work item or is a global one sufficient.

## Work Item Description

### Title

Support of the Presence Service in Core Network Signalling Protocols

#### 1                    3GPP Work Area

	Radio Access
X	Core Network
	Services

#### 2                    **Linked work items**

*Support of the Presence Capability (22.141)*  
*Support of the Presence Service Architecture (23.841)*

#### 3                    **Justification**

The concept of presence, whereby users (presentities) make their presence status known to other parties of their choice, allowing enhancement of various services such as group and private "chats" to take place. Presence is an attribute providing a different capability to be exploited by other services. The concept of presence, will enable other multimedia services to exploit this key enabler to support other advanced multimedia services and communications.

Examples of multimedia services that could potentially exploit the presence capability include "chat", e-mail, multimedia messaging, instant messaging etc.

#### 4                    **Objective**

The objectives of this work item:-

- To define and develop the signalling protocols to support a presence service to facilitate multimedia services in a wireless network as defined by 22.141
- To ensure that these protocols are interoperable with existing presence services so that the wireless service can integrate with external non-wireless services

#### 5                    **Service Aspects**

*Presence service shall support the gathering and distribution of the current presence and availability information of subscribers in the wireless and non-wireless networks.*

#### 6                    **MMI-Aspects**

*Services exploiting the presence service, will enable watchers to request notification of changes in status information of other users, and enable setting the visibility of users.*

#### 7                    **Charging Aspects**

*The ability to charge for access to, and use of, presence information shall be supported.*

#### 8                    **Security Aspects**

*Any presence solution shall provide a secure procedure to gain access to, and use, presence information.*

#### 9                    **Impacts**

<b>Affects:</b>	<b>USIM</b>	<b>ME</b>	<b>AN</b>	<b>CN</b>	<b>Others</b>
<b>Yes</b>		X		X	
<b>No</b>	X		X		
<b>Don't know</b>					X

**10 Expected Output and Time scale (to be updated at each plenary)**

The results of this Work Item shall be provided in a Technical Standard or CRs to existing Technical Standards.

The following Work Plan is proposed.

New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#	Comments	
24.228		Signalling flows for the IP multimedia call control based on SIP and SDP		CN #17	May wish to provide an alternative specification showing flows specifically for Presence. This depends on the degree of integration with the existing flows that would be required.	
24.229		IP Multimedia Call Control Protocol based on SIP and SDP		CN #17	Addition of MESSAGE to SIP usage. Define use of event packages	
23.218		IP Multimedia (IM) Session Handling; IP multimedia (IM) call model		CN #17	Depends on whether presence server is an application server. Needs SA2 input when decisions are made.	
Affected existing or new IETF specifications						
Spec No.	CR	Subject		Approved at plenary #	Comments	
draft-ietf-simple-im		SIP Extensions for Instant Messaging			Work is currently being transferred into SIP/SIPPING under guidance from IESG. Draft will be renamed.	
draft-ietf-simple-presence		SIP Extensions for Presence				
draft-ietf-simple-im-sdp		SDP Extensions for SIP Instant Message Sessions				
draft-ietf-simple-im-session		SIP Instant Message Sessions				
draft-ietf-simple-winfo-format		An XML Based Format for Watcher Information				
draft-ietf-simple-winfo-package		A SIP Event Sub-Package for Watcher Information			This needs to provide any 3GPP specific presence event extensions identified by SA1 and SA2 presence specifications	
		A Common Profile for Instant Messaging				

draft-ietf-impp-cpim-pidf		CPIM presence Information Data Format		
draft-ietf-impp-cpim-msgfmt-03.txt		Common Presence and Instant Messaging Message Format		

**11 Work item rapporteurs**

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**12 Work item leadership**

CN1

**13 Supporting Companies**

Lucent Technologies, Dynamicssoft, BT, Nokia, Motorola, AT&T Wireless, Hutchison 3G UK

**14 Classification of the WI (if known)**

	Feature (go to 14a)
	Building Block (go to 14b)
x	Work Task (go to 14c)

14a The WI is a Feature: List of building blocks under this feature

(list of Work Items identified as building blocks)

14b The WI is a Building Block: parent Feature

(one Work Item identified as a feature)

14c The WI is a Work Task: parent Building Block

(one Work Item identified as a building block)