

3GPP TSG CN Plenary Meeting #13  
Beijing, China, 19<sup>th</sup>-21<sup>st</sup> September 2001

NP-010442

**Agenda item:** 6.1  
**Document for:** INFORMATION

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**Meeting Report**  
**TSG CN WG1# 18**  
**Dresden, Germany**  
**10 - 12 July 2001**

Chairman: Hannu Hietalahti (Nokia)

Secretary: Per Johan Jorgensen (MCC)

Host: D2 Vodafone

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Documents can be found on the 3GPP-server:

[http://www.3gpp.org/ftp/tsg\\_cn/WG1\\_mm-cc-sm/TSGN1\\_18/Docs/](http://www.3gpp.org/ftp/tsg_cn/WG1_mm-cc-sm/TSGN1_18/Docs/)

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## 1 Opening of the meeting. Approval of the agenda with allocated documents. Calls for IPRs

**N1-010920** : CN1 chairman, Title: Agenda

*Discussion* : This will continue as a living document in the doc Dresden0107.rtf.

The host welcomed the delegates and informed on the logistics and the social event.

Joint meeting with CN2/3/4 (CN1 meeting points 8.1 and 8.2 where the other groups may participate) at 11:00 11/7 and at 16:00 11/7 will take place.

IPR rights were asked to be disclosed according to respective organizations IPR policies.

*Conclusion* : *Agreed*

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## 2 Reports

Keith informed that the IETF summary documents in parts like REFER draft was not completely updated. And informed that some updates on call transfer and privacy was expected. Also the sip-events draft is an official IETF draft.

**N1-010926**: Lucent T., Title: Summary of current IETF documents on SIP

*Discussion* :

*Conclusion* : *Noted*

**N1-010927** : Lucent T., Title: Summary of current IETF documents on SIPPING

*Discussion* :

*Conclusion* : *Noted*

**N1-010928** : Lucent T., Title: Summary of current IETF documents on MMUSIC

*Discussion* :

*Conclusion* : *Noted*

**N1-010929** : Lucent T., Title: Summary of current IETF documents on SIMPLE

*Discussion* :

*Conclusion* : *Noted*

**N1-011001** : N1 chairman, Title: DRAFT STATUS REPORT v1.1.0 3GPP TSG-CN#12

*Discussion* : Remaining issue on Handover for multicall, with possible voting in CN1#19. 24.228 v100 was presented for information. For the new WI on Rel-5 QoS, a session is to be held 9/7 Tuesday in the evening at 18:00 by CN3. The IMS content for Rel-5 will be handled during September plenary. March 2002 was indicated as a possible slip for Rel-5 schedule, and CN1 needs to provide its IMS and other Rel-5 content proposal(s).

*Conclusion* : *Noted*

**N1-011002** : MCC, Title: Meeting Report TSG CN WG1# 17 Puerto Rico, USA 14 - 18 May 2001

*Discussion* : E-mail comments from 2 weeks after the CN#17 meeting is incorporated with clarification from Nortel and some comments from Siemens. From now on the 2 week e-mail approval taking place on the CN1 exploder list

shall result in an agreed version that does not need to be brought to the succeeding CN1 WG meeting. Only if controversies arise the minutes need to be brought to the meeting for agreement to be reached.

**Conclusion : Agreed**

### 3 Input Liaison Statements

**N1-010921**: T2-010436, Type: LS IN , Title: LS Clarifications of aspects of Multimedia Capabilities [ID 1281]

**Discussion** : Dealing with terminal capabilities or maybe even about the UE functional split ? T2 are asking for clarification on their WT 1806, Terminal capabilities and Interactions on running multimedia from an external terminal, under WT 1281, Multimedia capabilities. Additionally they are proposing a joint meeting, if necessary, on multimedia capabilities. Our meetings are not synchronised so next alternatives would be during CN1 #19 27-31-Aug-2001 or during T2 #14 3-7-Sep-2001. T2 work is not covered in CN1 originated WID, so one alternative is to delete WT 1806 unless CN1 sees a proposal to revise the existing WID.

**Conclusion: LS OUT in 1019 by Keith**

**N1-010922** : S2-011528, Type: LS IN , Title: LS on the termination of authentication in the IMS

**Discussion** : 937 is related to this issue. SA2 reply to SA3 with CC to CN1 on the requirement that the authentication takes place in the home network. SA2 have studied this further and taken the approach that S-CSCF performs the authentication. 23.228 signalling flow based on this assumption is attached. 401 as answer seems to be the wrong answer in this LS input. But the flows are for information so they can be ignored, but a reply can be provided. 23.228 does however not include these flows.

**Conclusion: Noted**

**N1-010923** : S2-011098, Type: LS IN , Title: WI on the End-to-End QoS Architecture for Release 5

**Discussion** : The Workplan from 12/6 contains this new main WI. SA2 inform the other groups that the restructuring of the WI 'Ensure reliable QoS for PS domain' was endorsed in their meeting. This led to creation of a new feature level WI 'End-to-End QoS for PS Domain', which WI description is attached. There are several building blocks under this WI and one of them, 'End-to-End QoS IE for PS Domain' is for CN1 with expected impact on 24.008, 24.228 and 24.229.

**Conclusion: Noted**

**N1-010924** : S2-011579, Type: LS IN , Title: Reply LS on "IM CN Subsystem Roaming"

**Discussion** : Discussion of IMS roaming, which may impact CN1 later when SA1 decides on the requirements. SA2 reply to CN1 (N1-010482, S2-011387), and SA1 (S1-010569, S2-011435) on IM CN subsystem roaming. SA2 see that separating the IMS subscription from the PS subscription would be justified and ask SA1 what would be the service requirement for the UE with PS roaming allowed, but with no IMS roaming allowed.

**Conclusion: Noted**

**N1-010925** : S3-010291, Type: LS IN , Title: Reply to the following LSs: LS on "Security for IM SIP session Signaling" (Tdoc N1-010588, received as S3-010152) LS on "IM User Identities" (Tdoc S2-010757, received as S3-010160)

**Discussion** : Seems as CN1 assumptions in this area are not objected, but more work are expected from SA3. A LS IN from SA3 last week to CN1 will be provided this week and discussed together with 925.

**Conclusion: Noted**

**N1-010976** : S3-010292, Type: LS IN , Title: Response to Liaison Statement on the IM Call Transfer Service N1-010890 (S3-010249)

**Discussion :**

**Conclusion: Forwarded to the joint meeting in agenda item 8.2**

**N1-010977** : S3-010287, Type: LS IN , Title: Using a generic authentication scheme for SIP

**Discussion :** Using 407 or 401 component depends on the S-CSCF acts as a Registrar or not was one view. When the proxy component of the S-CSCF checks the auth, 407 is used. If the AS part of the S-CSCF does the check, 401 is used. Anyway the response to be used is not agreed by CN1. SA3 recommends in the LS that the “407 Proxy Authentication Required” error is the response, and that the “WWW-Authenticate” and “Authorization” headers used in IMS authentication should carry EAP (Extensible Authentication Protocol). There is also a DIAMETER question to CN4 in this LS. An attachment (S3-010263) is referred to in the LS but not included as an attachment. Any IETF draft dependencies in the security area related to SIP ?

**Conclusion: LS OUT in 1020 by Andrew**

**N1-010978** : S3-010274, Type: LS IN , Title: Reply to LS on "Handling of ICMP messages by 3GPP SIP Implementations"

**Discussion :** SA3 reply to our LS in N1-010892. Should the ICMP messages be ignored or not in 3GPP SIP implementation? SA3 say that the NDS/IP architecture for the core network does not provide any support for protecting ICMP messages and that there is no intention to do so in the future. They are not security protected, and it is implementation dependant to accept them or not. Therefore no action required.

**Conclusion: Noted**

**N1-011008** : S2-011685, Type: LS IN , Title: LS on ISC

**Discussion :**

**Conclusion: Forwarded to the joint meeting in agenda item 8.1**

**N1-011009** : S2-011701, Type: LS IN , Title: LS on SIP Compression between UE and P-CSCF

**Discussion :** An architecture decision is made that the compression of SIP messages between UE and P-CSCF is needed . UMTS shall support mechanisms to optimize transport of SIP signaling packets over the radio interface, typically by compressing the SIP signaling messages and by compressing the IP and transport layer protocol headers that carry these SIP messages. The chosen solution(s) shall be extendable to facilitate the incorporation of new and improved compression algorithms in a backward compatible way as they become available, and should work in roaming scenarios.

CN1 needs to work on eg. a negotiation mechanism on which algorithm to use (S2-011649, which should cover GERAN as well). And these parameter(s) needed for choosing the compression needs to be made. If it is a RAN solution CN1 is not affected. The IETF work needs to be monitored.

Application specific compression shall minimize impacts on existing UMTS release e.g. it could be defined between the UE and associated application server, e.g. at the SIP Client and at the first SIP Proxy.

Linked CR in N1-010984.

**Conclusion: Noted**

**N1-011010** : S2-011696 (S2-011677 in the doc itself), Type: LS IN , Title: LS on Future proof specification of the Go interface

**Discussion :** 24.228 may be impacted by showing the PCF, if a split PCF – P-CSCF architecture is adopted in the future. The GGSN needs to communicate with the P-CSCF and the PCF if not co-located, resulting in possible additional interface. Backwards compatibility problems were discussed.

**Conclusion: Forwarded to the joint meeting in agenda item 8.2**

**N1-011011** : S2-011697, Type: LS IN , Title: LS on Cell ID in SIP messages

**Discussion :** Location services with Cell ID available to IMS was viewed as beneficial by one operator. SA2 asks CN1 to study the means of providing cell identity across the Gm interface during SIP registration and session initiation procedures, eg by a new mime type to carry info in the message body. No contribution on this issue was however available to this meeting.

**Conclusion: Noted**

**N1-011032** : S3-010391, Type: LS IN , Title: Liaison Statement on "Progressing the work in SA3 and CN1 on the IP Multimedia core network subsystem"

*Discussion* : S3-010391 has been revised to S3-010404.

*Conclusion: Withdrawn*

**N1-011034** : S3-010398, Type: LS IN , Title: Network Configuration Independence Mechanism

*Discussion* :

*Conclusion: Forwarded to CN1#19*

**N1-011035** : S3-010404, Type: LS IN , Title: Liaison Statement on "Progressing the work in SA3 and CN1 on the IP Multimedia core network subsystem"

*Discussion* :

*Conclusion: Forwarded to CN1#19*

**N1-011037** : S3-010382, Type: LS IN , Title: Flows related to Authenticated Registrations and Re-Registrations

*Discussion* :

*Conclusion: Forwarded to CN1#19*

**N1-011039** : S3-010387, Type: LS IN , Title: Stage 2 information flows for authenticated registration and re-registration in the IMS

*Discussion* :

*Conclusion: Forwarded to CN1#19*

**N1-011040** : S3-010402, Type: LS IN , Title: Requirements related to private and public identities in IMS

*Discussion* :

*Conclusion: Forwarded to CN1#19*

**N1-011041** : S3-010403, Type: LS IN , Title: On the use of Network Domain Security for protection of SIP signalling messages

*Discussion* :

*Conclusion: Forwarded to CN1#19*

## 4 Work Plan for TSGN WG1

**N1-010980** : MCC, Title: Workplan of 12th June for N1 review

*Discussion* : Not presented.

*Conclusion : Noted*

## 5 Maintenance of R98 and older releases

Void

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## 6 Maintenance of Release 99

Void

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## 7 Release 4

Void

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## 8 Release 5

### 8.1 23.218 issues for joint CN WG session (Wednesday 10.07.2001 at 11:00)

**N1-010930** : 23.218v050 , Lucent T., Type: CR , Title: CR to 23.218: Filter Criteria mode in IMS

*Discussion :*

*Conclusion : Withdrawn, revised to 1013*

**N1-011013** : 23.218v050 , Lucent T., Type: CR , Title: CR to 23.218: Filter Criteria mode in IMS

*Discussion :* Revised from 930. In the IMS, the service related filter criteria could be divided into initial set of filter criteria and subsequent set of filter criteria. There could be three different implementation modes or schemes for these criteria with respect to the residency of the service related data as follows:

1. All service related data is stored in the service platforms. The S-CSCF only has the service platform addresses for each subscriber/user.
2. The same as the above case except for the S-CSCF that in addition to the service platform addresses, it also contains the initial set of filtering criteria for each subscriber and related to each service platform.
3. In this case, the initial and subsequent sets of filter criteria are separately stored in the S-CSCF and the service platform, respectively. Subsequent filter criteria are transported to S-CSCF when service logic is invoked.

An editorial in mode 1 was pointed out and deletion or rewording is needed. Internal logic in AS was not wanted to be seen from S-CSCF, only as blk boxes. Sh interface is not intended for downloading of filter criteria, but just shown for the architecture. Different public Ids might have different services and different AS. Subsequent triggering is removed as the initial triggers are re-evaluated by S-CSCF at every return from the AS.

Agreed the proposal that the initial service filtering criteria should be available (downloaded) to S-CSCF, and is taken as working assumption. This triggering of AS from S-CSCF is alternative 2 in the document.

Is section 5 here is modified according to another contribution from Lucent to this meeting? No, the proper doc will be presented according to the decision on this document later on. Section 5 is agreed.

*Conclusion : Agreed on alternative 2 and on section 5*

**N1-010931** : 23.218v050 , Lucent T., Type: CR , Title: CR to 23.218: Initial filter criteria in IMS

*Discussion :*

*Conclusion : Withdrawn, revised to 1014*

**N1-011014** : 23.218v050 , Lucent T., Type: CR , Title: CR to 23.218: Initial filter criteria in IMS

*Discussion :* Revised from 931.

**Conclusion : Withdrawn**

**N1-010936** : 23.218v050 , Ericsson, Type: DISCUSSION , Title: Filter Criteria for ISC Interface

**Discussion :****Conclusion : Withdrawn**

**N1-010981** : 23.218v051 , Motorola, Type: CR , Title: 23.218 v051 IP Multimedia (IM) Session Handling;IP Multimedia (IM) call model

**Discussion :** Implemented according to earlier decisions in CN1#17.

**Conclusion: Noted**

**N1-010982** : 23.218v051 , Motorola, Type: CR , Title: Removal of I-CSCF and P-CSCF from Section 5 of 23.218

**Discussion :** The current version of TS 23.218 includes the specification of functional requirements of Proxy-CSCF, Interrogating-CSCF and Serving-CSCF for IP Multimedia sessions. Should 23.218 focus on the Interactions between the S-CSCF and Application Servers (IM\_SSF, OSA SCS and SIP Application Servers) and the Mappings and Call Models contained in these entities, and not contain the functional requirements for Proxy-CSCF, Interrogating-CSCF for basic call/session handling ?

At CN1#17 N1-010761 proposed to modify the scope of 23.218 and remove section 5 in order to effect this change. It was the opinion of the meeting that this was too broad a change, so this contribution is a revised version which does not modify the scope of the document but removes the I-CSCF and P-CSCF subsections from section 5.

**Conclusion: Agreed**

**N1-010983** : 23.218v051 , Motorola, Type: CR , Title: Modifications to layout of 23.218 based on revised SA2 architecture for Service Control and selection of SIP for the ISC interface protocol

**Discussion :** The basic layout of TS 23.218 was determined at the end of last year when the Stage 2 architecture regarding the provision of services and service control for IMS was unclear. Since then SA2 has clarified this issue and has completed a detailed architecture for the provision of services for the IMS and selected SIP as the protocol between the S-CSCF and the Application Servers. This means that the structure of 23.218 needs reorganisation.

It is proposed that 23.218 be modified along the lines of section 2.2 in this CR and the architecture diagram and models endorsed by SA2 in section 2.1 in this CR be included in 23.218 as a starting point. A LS is proposed drafted to inform CN2 and CN5 officially of these decisions.

The 23.218 was proposed to be aligned with the SA2 architecture decisions.

CAMEL and OSA aspects that needs to be incorporated into CN2 and CN5 specifications respectively, should be handled in own TSs or as enhancements to existing TSs. This depends on the outcome of 23.218 spec decisions on the issue and the working groups own decision. Joint meeting with CN5 also would be beneficial, but it seems not possible this year (nor the intended October meeting). One (interim) alternative is to decide shared responsibility of the TS 23.218,- section 6 and 9 with CN2, while section 8 is with CN5. The CR numbering belongs to N1 when 23.218 becomes a TS under change control. Other view is to have splitted documents for each group to handle, since it is cleaner. Splitting is agreed to be the long term solution, but if and when is up to CN2 and CN5.

The rapporteur of 23.218 needs one co-rapporteur from CN2 and one from CN5 to handle the respective shared sections. Liaisons to CN2 is not needed since they are present and CN5 will be informed by Jane. CN1 can work on 23.218 on its own, but certain contributions will still need to be handled in joint sessions between Core Network groups.

**Conclusion: Agreed**

**N1-010986** : 23.218v050 , Lucent T., Type: CR , Title: CR to 23.218: Information Flows for IMS Service Examples: Call Forwarding Scenarios

**Discussion :****Conclusion : Withdrawn, revised to 1015**

**N1-011015** : 23.218v? , Lucent T., Type: CR , Title: CR to 23.218: Information Flows for IMS Service Examples: Call Forwarding Scenarios



**Discussion :** Revised from 986.

**Conclusion :** *Not treated due to lack of time*

**N1-010987** : 23.218v?, Lucent T., Type: CR , Title: CR to 23.218: Pre-paid Service Control Examples

**Discussion :**

**Conclusion :** *Withdrawn, revised to 1016*

**N1-011016** : 23.218v?, Lucent T., Type: CR , Title: CR to 23.218: Pre-paid Service Control Examples

**Discussion :** Revised from 987.

**Conclusion :** *Not treated due to lack of time*

**N1-010988** : 23.218v050 , Lucent T., Type: CR , Title: Updates to CAMEL sections in 23.218

**Discussion :**

**Conclusion :** *Withdrawn, revised to 1026*

**N1-011026** : 23.218v050 , Lucent T., Type: CR , Title: Updates to CAMEL sections in 23.218

**Discussion :** Revised from 988. IM-SSF is the term to be used. MAP is not decided to be used between HSS (which is not the same as HLR) and gsmSCF, and therefore proposed to be removed. The top figure miss the rev. mark for deletion. More editorials to be handled. The HSS-CSCF (Cx interface protocol) is based on Diameter.

**Conclusion :** *Revised to 1044*

**N1-011044** : 23.218v050 , Lucent T., Type: CR , Title: Updates to CAMEL sections in 23.218

**Discussion :** No joint session organized to handle this, but dealt with in the N1 part of this meeting.

**Conclusion :** *Agreed*

**N1-010989** : 23.218v050 , Lucent T., Type: CR , Title: CR to 23.218: Additional changes to initial filter criteria based on N1-010930

**Discussion :**

**Conclusion :** *Withdrawn, revised to 1017*

**N1-011017** : 23.218v050 , Lucent T., Type: CR , Title: CR to 23.218: Additional changes to initial filter criteria based on N1-010930

**Discussion :** Revised from 989. N1-011013 shows three filter criteria implementation modes in IMS and the option 2 was proposed and agreed as the implementation mode in 23.218. In option 2, the initial filter criteria sits in the S-CSCF, once a SIP message matches the initial filter criteria at the S-CSCF, the S-CSCF will proxy the SIP message to corresponding service platform entity across ISC interface. The protocol on ISC interface is SIP. Because SIP is used in this interface, in order to perform service control, the entity (IMSSF, OSA SCS or SIP AS) need to have the knowledge about the session transaction which means that the SIP messages which matches initial filter criteria have to be the session initiation or registration requests. In other words, the points of interest for the service platform in a SIP transaction are SIP requests.

Replace references to SIP+ (since it is a dead name) with ISC. Modification of the initial filter criteria to add things like REFER and REGISTER and also generalising the triggers in classes (4xx, 5xx etc.)? The REFER message was said to be already in 23.218. Bottom of the page needs the () removed.

**Conclusion :** *Revised to 1043*

**N1-011043** : 23.218v050 , Lucent T., Type: CR , Title: CR to 23.218: Additional changes to initial filter criteria based on N1-010930

**Discussion :** No joint session organized to handle this, but dealt with in the N1 part of this meeting.

**Conclusion :** *Agreed*

**N1-010990** : 23.218v050 , Lucent T., Type: CR , Title: CR to 23.218: Revision of the originating and terminating call state modelson N1-010930

*Discussion :*

*Conclusion : Withdrawn, revised to 1027*

**N1-011027** : 23.218v050 , Lucent T., Type: CR , Title: CR to 23.218: Revision of the originating and terminating call state modelson N1-010930

*Discussion :* Revised from 990. There is ongoing work in TSG SA1 to identify which aspects of CAMEL apply in IMS. The current working assumption in SA1 is that all the procedures that apply to MO and MT circuit switched calls may in theory apply to IP multimedia sessions. (S1-010692). The proposal in this contribution is to update the existing description of the Originating and Terminating IP multimedia Basic Call State Model in 23.218.

Some terminology confusion around IM SSF was discussed, but it is so far also used similarly in 23.228. Section numbers shall not be deleted.

*Conclusion : Revised to1045*

**N1-011045** : 23.218v050 , Lucent T., Type: CR , Title: CR to 23.218: Revision of the originating and terminating call state modelson N1-010930

*Discussion :* No joint session organized to handle this, but dealt with in the N1 part of this meeting.

*Conclusion : Agreed*

**N1-010997** : Siemens , Type: DISCUSSION, Title: S-CSCF Rolemapping

*Discussion :* During the last CN1 meetings a discussion about the SIP Role of an S-CSCF came up. This is needed to describe the SIP behaviour of the S-CSCF within the IMS. 24.229 currently states that a S-CSCF can act as a SIP Proxy or as an UA. This contribution analyses the current situation and open issues on the S-CSCF SIP role and gives some proposals on how to go on with this issue.

24.228 assumptions are the valid ones, but some recent changes on 24.229 needs change if those assumptions shall be kept. With introduction of ASs not only the BYE message seems to impacted. ISC now beeing a SIP protocol would allow S-CSCF to look like a Proxy. B2BUA definition is 2 legs tied together with an application and with different IDs in and out. Many open issues were raised on this contribution, eg do we have subsessions that constitute one e-2-e session?

*Conclusion : Noted*

**N1-011003** : Ericsson , Type: DISCUSSION, Title: Addressing B2BUA in a SIP network

*Discussion :* This contribution addresses the question on whether the S-CSCF needs to behave as a back-to-back user agent (B2BUA). This contribution describes the needs on the B2BUA at the S-CSCF if it were to be a RFC2543 compliant UAS. It is shown that this would result in breakdown in SIP network transparency, thereby violating RFC2543.

Some discussion took place, but it again focused on B2BUA or not.

*Conclusion : Not treated due to lack of time*

**N1-011004** : Ericsson , Type: DISCUSSION, Title: Network Controlled Session Disconnection

*Discussion :* This contribution describes scenarios where the network determines that a call in the process of being set-up, or already set-up, needs to be disconnected. It addresses the issue that network-centric control of SIP sessions are necessary to provide network-centric services and describes methods by which this can be achieved without the use of a B2BUA.

Some discussion took place. Based on the ISC interface now evolving from SIP, it might be better to make 3<sup>rd</sup> party call control. It was not wanted that 23.218 became another 24.228 with enormous amount of pages.

*Conclusion : Not treated due to lack of time*

**N1-011005** : Ericsson , Type: DISCUSSION, Title: Network Controlled Session Setup, Modification

**Discussion :** This contribution shows how SIP messaging, using the end-to-end model as described in RFC 2543, can be used to provide a network initiated session set-up and modification.

Another discussion around B2BUA or not, seen from the difference between the SIP architecture and the 3GPP architecture. From S-CSCF, SIP is decided towards AS, but towards MRF it is FFS.

**Conclusion : Noted**

**N1-011006** : Ericsson , Type: DISCUSSION, Title: Network Controlled Addition/Removal of legs

**Discussion :**

**Conclusion : Not treated due to lack of time**

**N1-011008** : S2-011685, Type: LS IN , Title: LS on ISC

**Discussion :** Forwarded from agenda item 3. The terminology was agreed on,- SA2 have endorsed the term ISC for IMS Service Control interface. Furthermore they have decided that the protocol to be run at this interface will be SIP. At the moment no extensions to SIP are known but if some are needed that will be stage 3 work as usual.

**Conclusion: Noted**

**N1-011018** : Siemens, Type: DISCUSSION , Title: Filter Criteria and Service Points of Interests

**Discussion :**

**Conclusion: Not treated due to lack of time**

## 8.2 24.228 issues for joint CN WG session (Wednesday 11.07.2001 at 16:00)

**N1-010941** : 24.228v110 , AT&T Wireless, Type: CR , Title: Missing QoS Interaction in 24.228 Procedures

**Discussion :** This contribution identifies some missing QoS interactions in session set up procedures in TS24.228. Those QoS interactions are defined in TS23.228. The rapporteur of 24.228 volunteered to implement this change to the next draft version.

**Conclusion : Agreed**

**N1-010944** : 24.228v110 , Motorola, Type: INFORMATION, Title: 24.228v110 "Signalling flows for the IP multimedia call control based on SIP and SDP"

**Discussion :** The last version of the draft 24.228.

**Conclusion : Noted**

**N1-010976** : S3-010292, Type: LS IN , Title: Response to Liaison Statement on the IM Call Transfer Service N1-010890 (S3-010249)

**Discussion :** Linked LS in N1-010979. S3 has security issues related to this issue, and are looking also for comments from other bodies and will return on this when the work is done.

**Conclusion : Noted**

**N1-010979** : S5-010324, Type: LS IN , Title: Reply to N1-010890 "Liaison Statement on the IM Call Transfer service"

**Discussion :** SA5 acknowledge the LS from N1 and promise to look at the details from charging viewpoint in their next regular meeting 16-20 July 2001.

**Conclusion: Noted**

**N1-010985** : 24.228v110 , Lucent T., Type: DISCUSSION , Title: Document Structure for the Cx Interface Protocol Standards

**Discussion** : The document structure should mirror as closely as possible that which has been agreed in CN1 for the IMS specifications. If the scope of the new Cx documents in CN4 is chosen correctly this will avoid confusion and ensure consistent working arrangement across CN1 and CN4 for the documents under their control. The discussion on this topic has already proceeded further in CN4 and there is a new proposal in tdoc N1-011042.

**Conclusion** : *Noted*

**N1-010993** : 24.228v110 , Lucent T., Type: CR , Title: CR to 24.228: Proposal for Media Gating Timing at MGW for Early Media

**Discussion** : Media gating at the MGW is currently shown to take place after answer by the called party. This does not allow for early media to be sent to the calling party. Early media may be necessary for network provided tones or announcements. So, there at least needs to be one-way media flow to the calling party earlier in the sequence. Also, since gating at GGSN already happens under control of the P-CSCF/PCF, there is not a need to do gating at the MGW. If the media is blocked on any part of the path, then that is sufficient to prevent transmission of media between endpoints (either one-way or two-way). The proposed change is to eliminate the media gating function of the MGW by enabling the media at the same time the resources are allocated at the MGW. The system will rely solely on the GGSN gating instead.

It was commented that this will not work if a PSTN to IMS call is re-directed to the PSTN. If P-CSCF or PCF is not involved the removal of gating from MGW will result in no gating at all. And tones could eg. be provided by the MGCF.

**Conclusion** : *Rejected*

**N1-010994** : 24.228v110 , Lucent T., Type: CR , Title: CR to 24.228: Removal of the T-SGW

**Discussion** : This contribution proposes removing the T-SGW from 24.228, in line with changes agreed within 23.002. The rapporteur of 24.228 volunteered to implement this change to the next draft version.

**Conclusion** : *Agreed*

**N1-010999** : 24.228v110 , Lucent T., Type: CR , Title: Proposal on the work split of "End-to-end QoS Stage 3" among CN and RAN working groups

**Discussion** : Seen a revised version of this document (N3-010318) in the QoS joint session last Tuesday night, were the document was agreed to be revised further by CN3. This tdoc is distributed for information in N1-011053.

**Conclusion** : *Noted*

**N1-011007** : 24.228v110 , InterDigital Communication, Type: CR , Title: Handling of Unsupported media types in SDP

**Discussion** :

**Conclusion** : *Not treated since it was not made available for distribution in time before nor during the meeting.*

**N1-011010** : S2-011696 (S2-011677 in the doc itself), Type: LS IN , Title: LS on Future proof specification of the Go interface

**Discussion** : Forwarded from agenda item 3. From SA2 To CN3 with CC to CN1. The joint meetings opinion on possible open interface between P-CSCF and PCF in the future was sought. It was expressed that separate boxes should then be shown, and preferably for all flows. Only one incoming and one outgoing flow for originating and terminating seems to be the compromise. Hopefully SA2 should do the same in 23.228, but it is not likely. Do we need flows for Go as well ? SA2 needs to be informed about the needed split between P-CSCF and PCF in 24.228, and that N1 could not agree on whether stage 2 is impacted or not.

It has been decided in SA2 that in Release 5 there will be no standardised open interface between the PCF (Policy Control Function) and the P-CSCF. However, introducing such an interface in later releases should not be prevented.

**Conclusion**: *LS OUT in 1046 by Sunil*

**N1-011012** : 24.228v110 , Lucent T., Type: CR , Title: CR to 24.228: Quality of Service Authorization in IM CN subsystem

**Discussion** : In 24.228-session initiation flows, there is a box called “QoS Authorization” sitting in one of the tasks of P-CSCF for both originating and terminating sides. There is a functional entity within the P-CSCF called PCF (Policy Control Function), which functions as a Policy Decision Point for the service-based local policy control. Once QoS Authorization procedure is triggered, the P-CSCF initiates a policy setup in PCF for the session and generates an Authorization-Token, which is sent to PCF with related user profile. The PCF shall authorize the required QoS resources for the session and install the IP bearer level policy based on information from the P-CSCF. This contribution attempts to separate the function of PCF from the P-CSCF and show QoS authorization in more detail.

Should SA2 have contributions on 23.228 and 23.207 to handle stage 2 first to show a split functionality (after Release 5) ? This is related to an earlier assumption in this meeting that stage 2 was not impacted by a possible future split between P-CSCF and PCF. The whole functionality in the box for authorization of resources were questioned to which extent it is covered by this contribution. The split was expressed to be of architectural nature, changing the assumptions for the LS OUT in 1046 and the LS from S2 in 1010.

**Conclusion** : *Rejected*

**N1-011042** : 24.228v110, Ericsson/Motorola, Nokia, Siemens., Type: DISCUSSION , Title: Cx Documentation Approach

**Discussion** : This document addresses the scope and content of the different documents to be developed by CN4 and submitted to 3GPP and IETF approval. It also addresses documents developed outside CN4, but having a possible impact on CN4 documentation. The list of addressed and referred to documents is to be found in section 1.2.

Relation to 24.228 is not explained, but the plan is to be consistent with it. Cx information flows will be input to 24.228. Also mapping SIP to DIAMETER parameters on the Cx interface should be provided for 24.228 (but also 24.229 was mentioned as possible target). This are to be provided by CN4 experts.

**Conclusion** : *Endorced*

**N1-011053** : N3 (tdoc N3-010326), Title: Proposal on the work split of “End-to-end QoS Stage 3” among CN working groups.

**Discussion** : This is an agreed document in CN3 provided for information only.

**Conclusion** : *Noted*

## 8.3 Rel-5 corrections

**N1-010935** : 24.229v030, Lucent T., Type: TS, Title: Current draft 24.229: "IP Multimedia Call Control Protocol based on SIP and SDP"

**Discussion** : Updates done and this is the latest draft on 24.229.

**Conclusion** : *Noted*

**N1-010961** : 24.228v110 , Nokia , Type: CR, Title: Notation conventions

**Discussion** : A contribution asking for consistency in the naming of nodes like home, visited in the URIs specified in the tables of 24.228. Alignment is proposed, but the related CRs are in N1-010967 and N1-010968. Not using THIG was requested. Public ID to be included, and what to do with multipel Public IDs ?

**Conclusion** : *Revised to 1024*

**N1-011024** : 24.228v110 , Nokia , Type: CR, Title: Notation conventions

**Discussion** : The related CRs are in N1-010967 and N1-010968

**Conclusion** : *Agreed*

## 8.4 SIP call control protocol for the IM CN subsystem: Registration:

**N1-010933** : 24.228v110 , Lucent T. , Type: CR, Title: CR to 24.228: Contact header in registration request

**Discussion** : Terminal may use static address or domain name. A temporarily dynamic address may be assigned, but the discussion was on the binding in DHCP, and if it is a fully qualified domain name for reaching the subscriber. The host name may be used by the UE and work, but the number of options was requested to be kept to a minimum. This doc was postponed for more discussions offline during this meeting, but no agreement could be reached.

**Conclusion** : *Rejected*

**N1-010934** : 24.228v110 , Lucent T. , Type: CR, Title: CR to 24.228: Handling of contact header by the P-CSCF

**Discussion** : This contribution discusses the handling of Contact: header in the REGISTER request. It is proposed that the Contact: header is left intact by the P-CSCF, and that the S-CSCF uses it when constructing the list of Route: headers.

Hiding would normally require modification of the contact header. Path header could also be used for hiding ? There is no working implementation with Path. The 967 doc is related to the issue, and tdoc 1023 is dealing with an updated version to Path. And it was advocated that Contact needs to change anyway. The intention with this contribution was to handle INVITE with pre-loaded routes.

**Conclusion** : *Revised to 1025*

**N1-011025** : 24.228v110 , Lucent T. , Type: CR, Title: CR to 24.228: Handling of contact header by the P-CSCF

**Discussion** : The discussion from 934 continued, and no resolution could be found.

**Conclusion** : *Noted*

**N1-010940** : 24.228v110 , AT&T Wireless , Type: CR, Title: Comments on Signaling Flows for REGISTER

**Discussion** : 24.228 should be simplified by removing THIG and visited registration flows from 24.228, but examples of hiding and visited networks is then not shown any longer. It was also asked: why are we doing this ? Other delegates expressed that example flows should be shown as agreed earlier to better meet 24.228 scope. Changing names was however needed for the notation to be consistent with home1, visited1 etc in the URIs of 24.228. A revised document is needed which integrates also the agreeable parts of a similar Nokia contribution.

**Conclusion** : *Revised to 1047*

**N1-011047** : 24.228v110 , AT&T Wireless/Nokia , Type: CR, Title: Registration flow update

**Discussion** : Describes consistent naming in the registration signalling flows of 24.228.

**Conclusion** : *Agreed*

**N1-010945** : 24.228v110 , Lucent T. , Type: CR, Title: CR to 24.228: A review of the editor's notes in clause 7 (prior to clause 7.1)

**Discussion** :

**Conclusion** : *Agreed*

**N1-010946** : 24.228v110 , Lucent T. , Type: CR, Title: CR to 24.228: A review of the editor's notes in clause 7.1 and 7.3

**Discussion** : 7<sup>th</sup> editors note needs to keep in mind the discussion on contact header, but can be removed. 8<sup>th</sup> editors note can be deleted. Also the 4<sup>th</sup> editors note were requested to be deleted, but an objection to fix the message error is needed. Then also 2<sup>nd</sup> editors note is without decision.

**Conclusion** : *Agreed to delete all editors notes but 2<sup>nd</sup> and 4<sup>th</sup> .*

**N1-010947** : 24.228v110 , Lucent T. , Type: CR, Title: CR to 24.228: A review of the editor's notes in clause 7.2

**Discussion** :

**Conclusion : Agreed**

**N1-010952** : 24.228v110 , Lucent T. , Type: CR, Title: CR to 24.228: Adding Date header in registration flows

**Discussion :** Adds the Date: header to the flows to allow for the specification of an absolute date/time instead of a delta time, and is in line with RFC2543-bis03. Expanding the Expires: header makes it incompatible with SIP. Are the proposed changes needed in 24.229,- yes and the contribution is beeing prepared.

**Conclusion : Agreed**

**N1-010956** : 24.229v030 , Lucent T. , Type: CR, Title: CR to 24.229: Path mechanism

**Discussion :** This contribution proposes that a new section entitled "Call Routing in IM CN Subsystem" be added to the Annex X document 3G TS 24.229. The structure of the new section is proposed and the text that defines the Path Header is provided.

In the description of what the path mechanism procedure is some comments were made, eg. it is not necessary to have the possibility of registering different private IDs and returning different PATH header contents. And that we need to be aware that the Path: header is not the only way of doing things, but path-less will be dealt with when that contribution is addressed. Then it was voiced that multiple mechanisms to do the same job is unwanted. Old list of path headers should be overwritten, and formulations in this contribution needs rewording.

**Conclusion : Revised to 1028**

**N1-011028** : 24.229v030 , Lucent T. , Type: CR, Title: CR to 24.229: Path mechanism

**Discussion :** Updated description of what the path mechanism procedure is.

**Conclusion : Agreed**

**N1-010957** : 24.229v030 , Lucent T. , Type: CR, Title: CR to 24.229: Route establishment procedure

**Discussion :** This contribution describes a procedure that will insure the initial INVITE request is routed over a predetermined path to the selected S-CSCF. The set of Route headers that will be pre-loaded into the initial INVITE request is obtained during the registration procedure utilizing the path mechanism described in this contribution.

It was commented that it should not be allowed that the Contact: header be untouched at the P-CSCF at REGISTER as the corresponding N1-010933 has not been discussed. And it must be clarified that the Path: header is only used in REGISTER transaction processing instead of stating that it is FFS. Supply some text on initial routes. Construction of the route headers first sentence,- can only be handled by the S2 statements in the 23.218. How to store Public IDs in P-CSCF should be an implementation issue, but a discussion took place on registration of multipel P-CSCF registrations. Public IDs can have different profiles and is discussed in S2 now. Path header and routes is now mixed all together, and a clean up was asked for ? The editor's note in 9.2.1 should be made to cover the precise handling of the Path header instead of deleting it. Clarify that it is the RR header where the route list is constructed in 9.2.1

**Conclusion : Revised to 1029**

**N1-011029** : 24.229v030 , Lucent T. , Type: CR, Title: CR to 24.229: Route establishment procedure

**Discussion :** First bullet point is not current assumption, and this new point need to be implemented in 24.228 or deleted. Proposed to cross out. Editors note needs update.

**Conclusion : Revised to 1055**

**N1-011055** : 24.229v030 , Lucent T. , Type: CR, Title: CR to 24.229: Route establishment procedure

**Discussion :**

**Conclusion : Agreed**

**N1-010963** : 24.228v110 , Nortel Networks , Type: CR, Title: Explicit Subscription

**Discussion :** 971, 974 and 998 are all linked. 963 is a revision of a doc. presented in CN1#17. Currently 3GPP TS 24.228 defines implicit subscription to a user's registration information and defines procedure for sending a notification to the UE once registration is completed and also if status of the registration differs, i.e. deregistration due to reasons defined in 3GPP TS23.228. Due to the unsolicited nature of notifications, there is 3 issues noted,- usage of callid in

NOTIFY method(s) is unstable,- incorrect use of the Allow-Events header as defined by the SIP draft (draft-roach-sip-subscribe-notify-03),- specific event information may not be available if explicit SUBSCRIBE is not used. Usage of explicit SUBSCRIBE is proposed and solves the 3 issues.

Deletion of subscription is acceptable, but it is not sure that S-CSCF will be the recipient of the subscription request. A generic procedure was intended, but rather a centralized event server should be the issue? Are extra signalling on the air interface acceptable, or only keep existing implicit subscription? Use the explicit procedure only for network initiated deregistration? Implicit subscription is not compliant with IETF SIP and would need major rework to make it work. Agreed that non-hiding case flow (as in 971) should be added and that dedicated subscription of de-registration events should be specified instead of a generic subscription procedure.

**Conclusion : Revised to 1030 which shall include 971 also.**

**N1-011030** : 24.228v110 , Nortel Networks , Type: CR, Title: Explicit Subscription

**Discussion** : Revision of 963 and 971.

**Conclusion : Agreed**

**N1-010974** : 24.228v110 , Nokia , Type: CR, Title: Registration Flow updates

**Discussion** : Most of the contents was covered already in other contributions (945, 946, 947, 952).

**Conclusion : Withdrawn**

**N1-010992** : 24.228v110 , Lucent T. , Type: CR, Title: CR to 24.228: Private user identity within REGISTER requests

**Discussion** : CR showing private-user-id in From: and public-user1-id in To: of REGISTER request

**Conclusion : Revised to1031**

**N1-011031** : 24.228v110 , Lucent T. , Type: CR, Title: CR to 24.228: Private user identity within REGISTER requests

**Discussion :**

**Conclusion : Agreed**

**N1-010998** : 24.228v110 , Lucent T. , Type: DISCUSSION, Title: DISCUSSION to 24.228: Use of Event Notification within Registration

**Discussion** : This discussion document outlines the problem addressed in Nortel contribution N1-010963 and Nokia contribution N1-010971. The documents do not disagree with each other (?).

**Conclusion : Agreed with the comment that the need for P-CSCF to run registration related timer needs to be checked with SA2.**

**N1-011023** : Ericsson, DynamicSoft, Nortel , Type: DISCUSSION, Title: An alternative solution to the Path: header extension

**Discussion :**

**Conclusion : Not treated due to lack of time**

## 8.5 SIP call control protocol for the IM CN subsystem: De-registration:

**N1-010948** : 24.228v110 , Lucent T. , Type: CR, Title: CR to 24.228: A review of the editor's notes in clause 7.4

**Discussion** : Delete both editors note was proposed, but the first editors note was discussed regarding long registration timer when the UE eg. power off normally or by battery removal.

**Conclusion : Rejected**



**N1-010951** : 24.228v110 , Lucent T. , Type: CR, Title: CR to 24.228: Network initiated deregistration upon UE roaming without de-registration

*Discussion :*

*Conclusion : Withdrawn, revised to 1022*

**N1-011022** : 24.228v110 , Lucent T. , Type: CR, Title: CR to 24.228: Network initiated deregistration upon UE roaming without de-registration

*Discussion :* This contribution attempts to provide a mechanism to avoid duplicate registrations or inconsistent information storage caused by subscriber roaming to a different network without de-registering the previous one. The S-CSCF initiates a de-register towards the old P-CSCF when the roaming subscriber registers at the new P-CSCF.

The use of all Notify messages are under discussion. If the UE is not present in the network it can not respond the 200 OK. The P-CSCF in visited network needs a mechanism were eg. it subscribes to be notified on the UE registration information. Or the old P-CSCF gets involved in the notify procedure.

*Conclusion : Revised to 1038*

**N1-011038** : 24.228v110 , Lucent T. , Type: CR, Title: CR to 24.228: Network initiated deregistration upon UE roaming without de-registration

*Discussion :* Chapter 7.5 is changed by other CRs as well, and a question is if this one is needed for Rel-5 ? The document does not give a full solution to the problem described above, but shows an example of the call flow.

*Conclusion : Agreed*

**N1-010962** : 24.228v110 , Lucent T. , Type: CR, Title: Network Initiated De-registration changes

*Discussion :*

*Conclusion : Withdrawn*

**N1-010971** : 24.228v110 , Nokia , Type: CR, Title: Subscribing for the Network Initiated Deregistration event

*Discussion :* This contribution is based on the following assumptions: 1.The UE shall use the explicit subscription procedure to subscribe for the network initiated deregistration event, i.e. it shall send a SUBSCRIBE message after a successful registration. 2.The event defining the network initiated deregistration (org.3gpp.nwinitdereg) appears in the Event header of the SUBSCRIBE message, i.e. no Allow-Events header is present in the REGISTER message. 3.After a successful subscription an immediate NOTIFY message is sent by the S-CSCF.

Explicit procedure is described which is linked with 998 and 963.

*Conclusion : Revised to 1030 which shall include 963 also and are found in chapter 8.4.*

**N1-010975** : 24.228v110 , Nokia , Type: CR, Title: Network Initiated Deregistration

*Discussion :* Describes a subscriber who is de-registered by the S-CSCF.

Some discussion on failure cases like mobile not reachable, and treatment of these as error cases. Should the P-CSCF react when UE can not be informed by deleting UE information, and for which criteria ? Keep the FFS as editors note. The successful and unsuccessful cases needs to be described ? The timer issue was discussed. It is not feasible to the P-CSCF to examine all the messages to look for NOTIFYs to de-registration. There was a long discussion on whether the NOTIFY and 200 OK was hop-by-hop or end-to-end. The 200 OK is optional in 23.228 and the P-CSCF can send the NOTIFY when possible. A note should be added to the revised document that it should be consistent with 23.228. (i.e. end-to-end).

*Conclusion : Revised to 1036*

**N1-011036** : 24.228v110 , Nokia , Type: CR, Title: Network Initiated Deregistration

*Discussion :*

*Conclusion : Agreed*

## 8.6 SIP call control protocol for the IM CN subsystem: Configuration hiding:

**N1-010939** : 24.228v110 , Ericsson , Type: CR, Title: Network Configuration Hiding with a BGCF

*Discussion :*

*Conclusion : Withdrawn*

## 8.7 SIP call control protocol for the IM CN subsystem: Authentication:

**N1-010937** : 24.228v110 , Ericsson , Type: DISCUSSION, Title: Network Controlled Authentication Without the Use of A B2BUA

*Discussion :* This contribution shows how SIP messaging, using the end-to-end model as described in RFC 2543, can be used to provide on-demand network-initiated authentication of a subscriber in an active session. The SIP extension, REFER is used to trigger the UE into re-registering, thereby authenticating the UE.

S2 and S3 results are needed on the issue, and contributions should be put directly to these meetings.

*Conclusion : Rejected*

## 8.8 SIP call control protocol for the IM CN subsystem: Call initiation:

**N1-010949** : 24.228v110 , Lucent T. , Type: CR, Title: CR to 24.228: A review of the editor's notes in clause 8.1

*Discussion :*

*Conclusion : Not treated due to lack of time*

**N1-010950** : 24.228v110 , Lucent T. , Type: CR, Title: CR to 24.228: A review of the editor's notes in clause 8.2

*Discussion :*

*Conclusion : Not treated due to lack of time*

**N1-010953** : 24.228v110 , Lucent T. , Type: CR, Title: CR to 24.228: The deletion of Proxy-Require header

*Discussion :* In the current 24.228 session initiation call flows, each session initiation INVITE message contains a Remote-Party-ID header with rpi-privacy tag set to OFF and a Proxy-Require: Privacy header. The Remote-Party-ID header with rpi-privacy tag set to OFF means that the UAC doesn't want its identity to be hidid from the other end user. The Proxy-Require: Privacy header means that the proxy must support Remote-Party-ID hiding function. Having that Proxy-Require header has a conflict with the user's privacy requirement in this case, - who doesn't want privacy at all. Having this header will also lead to the session beeing blocked if the proxy fails to support that requirement.

Should this deletion be extended ? No, just remove Proxy-Require when not necessary : Proxy-Require:Privacy header is only contained in INVITE when the rpi-privacy tag in Remote-Party-ID has the value other than OFF.

*Conclusion : Agreed*

**N1-010958** : 24.229v030 , Lucent T. , Type: CR, Title: CR to 24.229: P-CSCF processing of the initial INVITE request

*Discussion :* This contribution describes the procedure that will insure that the P-CSCF is on the routing path for the initial INVITE request and subsequent requests. The Route list that will be pre-loaded into the initial INVITE request is obtained during the registration procedure utilizing the path mechanism. The Route list that is used during the duration of the call should be constructed during the exchange of the initial INVITE and associated response.

Initial INVITE to Proxy should also have the Via: header removed. Should the contact header not be overwritten by the Proxy? Record-Route header statements need to be clarified, and a discussion took place whether Record-Route is equal to Contact sent in REGISTER. Exceptions to IETF should be shown and not any standard SIP behavior, - in order not to duplicate what the RFC has. Emergency calls are still under discussion and the assumption should be removed. A section in the end is missing. This contribution is planned for the annex, and is not complete for the chapters related. A better way of description was also discussed off line and resulted in the following :

24.229 will be structured on a per node basis to describe normative exceptions to procedures in bis-0x. The RFC is the normative reference with exceptions documented in 24.229.

**Conclusion : Revised to 1048**

**N1-011048** : 24.229v030 , Lucent T. , Type: CR, Title: CR to 24.229: P-CSCF processing of the initial INVITE request

**Discussion :** Take out the 'IF' relating to local services. The term local services should be defined, but since the discussion is ongoing in S2 this shall be crossed out in this contribution.

**Conclusion : Revised to 1056**

**N1-011056** : 24.229v030 , Lucent T. , Type: CR, Title: CR to 24.229: P-CSCF processing of the initial INVITE request

**Discussion :**

**Conclusion : Agreed**

**N1-010959** : 24.229v030 , Lucent T. , Type: CR, Title: CR to 24.229: I-CSCF processing of the initial INVITE request

**Discussion :** I-CSCF does follow the standard SIP without exceptions. All 3 functionalities of I-CSCF should be described separately. Titles are not good as I-CSCF is not aware of initial versus terminating.

**Conclusion : Revised to 1049**

**N1-011049** : 24.229v030 , Lucent T. , Type: CR, Title: CR to 24.229: I-CSCF processing of the initial INVITE request

**Discussion :** At least 'Initial' should be crossed out. Restructuring required.

**Conclusion : Rejected**

**N1-010960** : 24.228v110 , Lucent T. , Type: CR, Title: CR to 24.229: S-CSCF processing of the initial INVITE request

**Discussion :** Call flows should reflect what is currently assumptions. This contribution does not take an end to end view, because the breaking of Record-Route at the S-CSCF into originating leg and terminating leg should not be done. AS is not in the picture and the ways to understand this was discussed in principal.

**Conclusion : Revised to 1050**

**N1-011050** : 24.228v110 , Lucent T. , Type: CR, Title: CR to 24.229: S-CSCF processing of the initial INVITE request

**Discussion :**

**Conclusion : Agreed**

**N1-010965** : 24.228v110 , Nokia , Type: CR, Title: Anonymity

**Discussion :** In 24.228 document, the call flows contain an "Anonymity" header. From draft-ietf-sip-privacy-02.txt: "The proxy MUST also look for the presence of an Anonymity header requesting IP address privacy. If IP Address privacy is requested, the proxy MUST ensure that IP address privacy is provided through a level of indirection for signaling and media. We refer to the function that provides this level of indirection as an Anonymizer." The CR takes it that the usage of Anonymity header is optional, and if not present is identical to the value "off". Further, in order to make use of it, a new network functionality, namely the presence of an "Anonymiser" is needed. As there is no wording

in Rel5 specifications about the functionality called "Anonymiser", any Rel5 compliant network will have no possibility to make use of it, thus the value of the header "Anonymity", if present, will be always "off" in any Rel5 compliant system. In order to simplify the content of messages and reduce their sizes (very important on GERAN interface) it is proposed NOT to support this header in Rel5. Thus the header "Anonymity" should be removed from the call flows in 24.228 and any reference to it from 24.229.

Anonymiser should have nothing to do with the AS. Premature do say it can not be done for Rel-5, and this item should be part of the content discussion which needs to be reflected as N1 input to CN plenary in September. It was said that better leave it in as it may be needed. Or to be brought back when the privacy draft is more stable, - probably before CN1 meets in end of August ? What now is the content seems wrong, so it could be removed. A CR should be input to CN1#19.

**Conclusion : Noted**

**N1-010966** : 24.228v110 , Nokia , Type: CR, Title: SDP in Prack

**Discussion :**

**Conclusion : Withdrawn. Revised to 1021**

**N1-011021** : 24.229 , Nokia , Type: CR, Title: SDP in Prack

**Discussion :** In 24.229 a subclause describing the usage of SDP is claimed missing.

This usage of SDP seems to be above the RFC requirements. The MUSTs should become SHALLs, and the subclause could be moved to the Annex. 24.229 scope was again a theme, and the Annex will be discussed further as a working assumption.. An empty SDP is allowed in SIP. The only mandatory messages are INVITE, 200 OK and ACK. Any two sequential messages should carry SDP.

**Conclusion : Revised to 1054**

**N1-011054** : 24.229 , Nokia , Type: CR, Title: SDP in Prack

**Discussion :**

**Conclusion : Withdrawn**

**N1-010967** : 24.228v110 , Nokia , Type: CR, Title: #2 Flow updates

**Discussion :** Removes Anonymiser. Removes info from Contact: at P-CSCF at INVITE, which was claimed as relating back to an agreement done about 3 month ago, without beeing implemented.

We did already agree to postpone anynymity related changes, see N1-010972, so any changes in that area will need to be removed. The originator was asked to submit a revised version to the next meeting

**Conclusion : Rejected**

**N1-010968** : 24.228v110 , Nokia , Type: CR, Title: #1 Flow updates

**Discussion :** Anonymity header deletion is done here, which are put on hold. Does the added text need to be part of the normative text, or as part of the flows. The contact header change (Contact: info removal at reception of INVITE at P-CSCF) is related back to the CN1 April meeting.

We did already agree to postpone anynymity related changes, see N1-010972, so any changes in that area will need to be removed. The originator was asked to submit a revised version to the next meeting

**Conclusion : Rejected**

**N1-010972** : 24.228v110 , Nokia , Type: CR, Title: The content of To: and From: fields

**Discussion :** In the current version of 24.228 the To: and From: fields both contain encrypted information, regardless of the privacy requirements for the session. It is proposed to use the caller's public\_ID in the From: and the callee's public\_ID in the To: header fields when the privacy for the session has the value off or when the privacy header is missing from the INVITE request.

Possibility to choose to encrypt To: and From: headers or not is desired in the network for operators, and could be stated as an editors note. Privacy and anonymity is two different things, and what the UE sends out should be the only way to

handle privacy. Can the privacy when set to OFF in INVITE be turned to ON by the network ? B2BUA can change the privacy flag.

The current SIP privacy draft allows 3 alternatives: privacy required, not required, don't care. The privacy draft is undergoing many changes now and could influence this contribution, so the decision should be postponed. However this contribution is believed to be in line with the latest draft.

The legal issues was argued to be studied first. Interaction with SIM when changing terminals needs to be looked at.

Is it required that additionally to UE originated privacy request it is also possible to subscribe to a service where the network hides the user identity on behalf of the user/UE? It was requested more time to analyse the security aspects.

**Conclusion : Noted**

**N1-010984** : 24.228v110 , Motorola , Type: DISCUSSION, Title: SIP/SDP Compression

**Discussion** : As the IM subsystem design and procedures begin to stabilize, the number of SIP messages exchanged over the air interface and their large size is becoming a factor in efficiently using the UMTS radio spectrum. SIP procedures will not be as efficient as their 04.08 counterparts. If mechanisms are not added to reduce the size of these messages, there is a risk that the cost to operate a session over the IM subsystem may become more expensive than most subscribers are willing to pay, thus minimizing the value which the IM subsystem can provide. This paper introduces the problem.

Discussed also in CN1#17. High priority for Rel-5, but should be based on the IETF work recently started and may not be aligned with Rel-5 timeschedule. Text compression or compression which is aware of the SIP protocol? Some areas in the architecture for 3GPP is not in the IETF interest, and therefore should be progressed here in CN1. And other areas could be progressed and brought to IETF as input. SA2 now only talks on compression between UE and the Proxy. Motorola want to bring in contributions if they will be discussed in N1. Are there any requirements on SIP due to compression, e.g. max length for a SIP URL ? What sort of boundaries or requirements would be set forward? Any contributions brought in and being within SIP aspects will be treated.

**Conclusion : Noted**

**N1-010991** : 24.228v110 , Lucent T. , Type: CR, Title: CR to 24.228: Correction on Content-Length header in INVITE

**Discussion** : Media can not be removed by SDP, only modified (eg. replaced with none). No media lines can be taken away in principal.

**Conclusion : Agreed**

**N1-010995** : 24.228v110 , Lucent T. , Type: CR, Title: CR to 24.228: Correct placement of state info tables

**Discussion** : Principals agreed, and the rapporteur will include this.

**Conclusion : Agreed**

## 8.9 SIP call control protocol for the IM CN subsystem: Call clearing:

None provided.

## 8.10 SIP call control protocol for the IM CN subsystem: Abnormal cases and error handling:

**N1-010969** : 24.228v110 , Nokia , Type: CR, Title: Warning header in 403 Forbidden

**Discussion** : This is a follow up contribution of N1-010713, where the following principles have been agreed: 3GPP reserves a warn-code with IANA and uses that in Warning headers of a 403 Forbidden response to inform the UE that its registration is not valid (any more). The receipt of a 403 Forbidden message with a Warning header containing the 3GPP specific warn-code would inform the UE that its request could not be completed because of an invalid

registration. Furthermore, warn-texts like "Registration needed" or "Re-Registration needed", can also be inserted in such warning headers for subscriber's information about the exact reason of not serving her/him.

Could a editors note in the beginning of the section say that it is not relevant for emergency calls, since this should be possible without registration. No it will be described in the 24.229 as a special case. Need to work out how to get the warning code from IANA before the 24.228 becomes approved. To be made as Editors note serving as a warning holder. Warning code for INVITE for unregistered subscriber ? 100 Trying is not needed as it is optional, but to avoid revising the document it was accepted.

**Conclusion : Agreed**

**N1-010970** : 24.228v110 , Nokia , Type: CR, Title: Roaming not allowed

**Discussion :** This contribution presents a solution for the case when the subscriber sends a Register request to its home network but the home network does not allow the subscriber to access IMS through that given P-CSCF. In such a case the home network operator may want to advise the subscriber to attach to the CS domain instead. It is proposed that 3GPP defines a warn code with IANA and operators can send the warn-code in a warn header inserted in the response to the subscriber's Register request in case roaming is not allowed from that P-CSCF and operator may want to advise the subscriber to attach to the CS domain.

This is an example on how to avoid unnecessary signalling. Assumes that GPRS roaming is allowed, but IMS roaming is not allowed. The warn-code is sent back to the caller after Cx-Pull. Goes to the annex as a default assumption.

**Conclusion : Agreed**

## 8.11 SIP call control protocol for the IM CN subsystem: Editorial changes:

**N1-010932** : 24.228v110 , Lucent T. , Type: CR, Title: CR to 24.228: Editorial corrections

**Discussion :** Is AS provision to be included here as flows since it is not end to end ,- meaning an added section ? For joint meeting discussion.

**Conclusion : Agreed**

**N1-010942** : 24.228v110 , Motorola/Ericsson , Type: CR, Title: Revision of the key in 24.228 for empty headers

**Discussion :**

**Conclusion : Agreed**

**N1-010943** : 24.228v110 , Motorola/Ericsson , Type: CR, Title: Proposal to delay implementation of N1-010893 "Proposed revision of the presentation of SIP headers in 24.228"

**Discussion :** Insert an editors note to reflect the agreed changes, allowing to delay the implementation and rethink the way forward. Table Format updates with new notation to be postponed.

**Conclusion : Agreed**

**N1-010955** : 24.229v030 , Lucent T. , Type: CR, Title: CR to 24.229: Editorial corrections

**Discussion :**

**Conclusion :** *E-mail approval until 23/7-01 at 17:00 French time, via Per on the NI-exploder. No possibility to revise any part of the document. Objections can be made on point to point bases, so only the whole document or specified points objected will not be agreed for implementation at the deadline.*

**Rejected.**

**N1-010964** : 24.228v110 , Nortel Networks , Type: CR, Title: Corrections to 24.228

**Discussion :**

**Conclusion :** *E-mail approval until 23/7-01 at 17:00 French time, via Per on the NI-exploder. No possibility to revise any part of the document. Objections can be made on point to point bases, so only the whole document or specified points objected will not be agreed for implementation at the deadline.*

**Agreed.**

**N1-010973** : 24.228v110 , Nokia , Type: CR, Title: Document restructuring

**Discussion :** In order to provide people with flows without hiding these modifications from chapter 7 onwards are proposed. Chapter 9.2 will go to the error handling. Since some cases are now described just for hiding or some just for non-hiding, this restructuring will require more flows to be included.

**Conclusion :** *Noted but some restructuring on the TS is necessary (not on hiding/no hiding seperation)*

**N1-010996** : 24.228v110 , Lucent T. , Type: CR, Title: CR to 24.228: Minor corrections

**Discussion :**

**Conclusion :** *E-mail approval until 23/7-01 at 17:00 French time, via Per on the NI-exploder. No possibility to revise any part of the document. Objections can be made on point to point bases, so only the whole document or specified points objected will not be agreed for implementation at the deadline.*

**Rejected.**

**N1-011000** : 24.228v110 , Lucent T. , Type: CR, Title: CR to 24.228: General editorial issues

**Discussion :**

**Conclusion :** *E-mail approval until 23/7-01 at 17:00 French time, via Per on the NI-exploder. No possibility to revise any part of the document. Objections can be made on point to point bases, so only the whole document or specified points objected will not be agreed for implementation at the deadline.*

**Rejected.**

## 8.12 IP & PS based emergency call enhancements

None provided.

## 8.13 Other SIP issues

**N1-010938** : 24.228v110 , Ericsson , Type: CR, Title: Terminal Capabilities

**Discussion :**

**Conclusion :** *Not available.*

**N1-010954** : 24.229v030 , Lucent T. , Type: CR, Title: CR to 24.229: An analysis of the requirements for the Date header

**Discussion :**

**Conclusion :** *Not available.*

**N1-011033** : 24.229v030 , Ericsson , Type: OTHER, Title: Summary of IMS work within SA3 (presentation)

**Discussion :** The presentation was held by Krister Boman and very well received. Unfortunately the time did not allow for any discussion so off line contacts are needed for questions. However after lunch the session restarted some time before the start of the joint meeting. Resulting in the following comments and questions from CN1:

SIP extensions to IETF needs to be co-ordinated between S3 and CN1. Work has started in IETF on the new auth. Headers: aspects, and CN1 needs to be informed on such drafts.

When will work be available for CN1 on registration security (SA3 scheduled work on Rel-5 is June 2002 with stage 2 available in March) in order to do some work on 24.228? Hope to have stable flows in 23.228 by end of the year.

Could stage 3 security issues be written from next CN1 meeting directly to 24.228 and/or 24.229 rather than having another TS doing that, eg by referencing the appropriate IETF RFCs?

Can we refer to IETF drafts in 24.229 ?. Yes, if they turn into RFCs before Rel-5 is completed.

UICC may contain either USIM or ISIM or both. In case of no USIM there is obviously no 3GPP access because PDP context can not be activated.

The relation between 24.228 and 33.203 flows needs to be clarified as the same procedures are covered in both. Any SA3 change in 33.203 must be reflected in 24-series by CN1.

Do we need to encrypt the Refer-To header in transfer scenarios ? LS from SA3 to CN1 answers this. Encryption of this may be outside the scope of SA3 and within the scope of regular GSM ?

Must all public IDs reside in the HSS? For Release 5 yes.

How to relate invitations using some public identity to the existing security context? Authenticate INVITEs or what?

Multipel S-CSCF registrations seems complicated from a security viewpoint. Each P-CSCF has a security relation with an UE. If a public ID has different profiling as discussed in S2 now, some security issue needs to be resolved.

Should private or public identities be authenticated? Or just ensuring that the used public identity is associated with an authenticated private identity?

Why do we need one authentication per public ID if all are from the same UE ? Check for public versus private in Cx-query, or download all public IDs to S-CSCF.

**Conclusion :** *Noted*

## 9 Output Liaison Statements

**N1-011019** : Keith, Type: LS OUT **To:** T2, CN4 **cc:** SA2, Title: Liaison Statement on " Clarifications of aspects of Multimedia Capabilities [ID 1281]"

**Discussion :** No works seems to be done and if T2 and N4 does not know of any requirements either, the 4 WTs should be deleted. If any disagreement N1 needs to be informed before the September plenary. Is this related to work item on codec specifications ?.

**Conclusion :** *Revised to 1051*

**N1-011051** : Keith, Type: LS OUT **To:** T2, CN4 **cc:** SA2, Title: Liaison Statement on " Clarifications of aspects of Multimedia Capabilities [ID 1281]"

**Discussion :** AP for Hannu to mention in the CN1 status report to TSGN #13: "CN1 will make a proposal to the plenaries to delete work items 1282 and 1805."

Reply to N1-010921.

**Conclusion :** *Agreed*

**N1-011020** : Andrew, Type: LS OUT **To:** S3, Title: Reply LS on "Using a generic authentication scheme for SIP"

**Discussion :** Should consultation on headers be included as well. Editorial on the S3 tdocnumber. EAP implications would be good to have more information about. State that header recommendations from SA3 are OK, but response codes are up to CN1.

**Conclusion :** *Revised to 1052*

**N1-011052** : Andrew, Type: LS OUT **To:** S3, Title: Reply LS on "Using a generic authentication scheme for SIP"

**Discussion :** Reply to 977.

**Conclusion :** *Agreed*



**N1-011046** : Sunil, Type: LS OUT **From:** joint CN1-4 session **To:** S3, **Title:** Liaison Statement on "Reply to LS on Future proof specification of the Go interface "

**Discussion :** Reply to 1010. Issue 3 is questioned since S2 is not stable on this. Ended up as an issue for the future and that CN1 does not need to react.

**Conclusion :** *Rejected*

## 10 Any Other Business

The structure and ways of description of 24.229 seems to require more discussion, and Keith will set up conference for this summer to progress on this. But the output will be input to the following CN1 meeting, and to the N1 e-mail list so it should not make participation in the conference mandatory.

## 11 Closing of the meeting

18:00 Thursday

Review of dates and hosts for future meetings

Meeting schedule for rest of 2001

3GPP Meeting	Date	Place	Host
N1#19	27-31 Aug 2001	Helsinki, Finland	Nokia
<b>TSGN#13</b>	<b>19-21 Sept 2001</b>	<b>Beijing, China</b>	<b>Lucent Technologies, CWTS</b>
N1#20	15-19 October 2001	Brighton, UK	Vodafone, BT
N1#21	26-30 November 2001	Cancun, Mexico	North American friends of 3GPP
<b>TSGN#14</b>	<b>12-14 December 2001</b>	<b>Kyoto, Japan</b>	
N1#22	14-18 January 2002	?	?
<b>TSGN#15</b>	<b>6-8 March 2002</b>	<b>Korea</b>	
N1#23	8-12 April 2002	?	?
N1#24	13-17 May 2002	?	?
<b>TSGN#16</b>	<b>5-7 June 2002</b>	?	
N1#25	29.July-2.August 2002	Finland	Sonera
<b>TSGN#17</b>	<b>4-6 September 2002</b>	<b>France</b>	
N1#26	23-27 September 2002	?	?
N1#27	11-15 November 2002	?	?
<b>TSGN#18</b>	<b>4-6 December 2002</b>	<b>New Orleans, USA</b>	

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## Annex A Joint meeting report (CN1/ 2/ 3/ 4)

Please see section 8.1 and 8.2

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**Annex C Agreed CRs**

None

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**Annex D Tdoc list (incl. the status)**

TDoc #	Tdoc Title	Source	WI	C_V ersio n	Rel	Spec	Type	Age nda	Comments	Status
N1-010920	Agenda	Chairman					AGENDA	2		AGREED
N1-010921	LS Clarifications of aspects of Multimedia Capabilities [ID 1281]	T2					LS IN	3	T2-010436, TO: N1 CC: S2	LS OUT in 1019 by Keit
N1-010922	LS on the termination of authentication in the IMS	S2					LS IN	3	S2-011528, TO: S3, CC: N1	NOTED
N1-010923	WI on the End-to-End QoS Architecture for Release 5	S2					LS IN	3	S2-011098, To: SA1, SA3, SA5, CN1, CN3, CN4, R3	NOTED
N1-010924	Reply LS on "IM CN Subsystem Roaming"	S2					LS IN	3	S2-011579, To: SA1, CN1	NOTED
N1-010925	Reply to the following LSs: LS on "Security for IM SIP session Signaling" (Tdoc N1-010588, received as S3-010152) LS on "IM User Identities" (Tdoc S2-010757, received as S3-010160)	S3					LS IN	3	S3-010291, To: CN1, SA2	NOTED
N1-010926	Summary of current IETF documents on SIP	Lucent Technologies / Keith Drage	IMS-CCR		Rel-5		INFO	2		NOTED
N1-010927	Summary of current IETF documents on	Lucent Technologi	IMS-CCR		Rel-5		INFO	2		NOTED

	SIPPING	es / Keith Drage								
N1-010928	Summary of current IETF documents on MMUSIC	Lucent Technologies / Keith Drage	IMS-CCR		Rel-5		INFO	2		NOTED
N1-010929	Summary of current IETF documents on SIMPLE	Lucent Technologies / Keith Drage	IMS-CCR		Rel-5		INFO	2		NOTED
N1-010930	CR to 23.218: Filter Criteria mode in IMS	Lucent Technologies/Xin Chen	IMS-CCR	0.5.0	Rel-5	23.218	CR	8.01	Revised to 1013	WITHDRAW
N1-010931	CR to 23.218: Initial filter criteria in IMS	Lucent Technologies/Xin Chen	IMS-CCR	0.5.0	Rel-5	23.218	CR	8.01	Revised to 1014	WITHDRAW
N1-010932	CR to 24.228: Editorial corrections	Lucent Technologies / Keith Drage	IMS-CCR	1.1.0	Rel-5	24.228	CR	8.11		AGREED
N1-010933	CR to 24.228: Contact header in registration request	Lucent Technologies / Milo Orsic	IMS-CCR	1.1.0	Rel-5	24.228	CR	8.04		REJECTED
N1-010934	CR to 24.228: Handling of contact header by the P-CSCF	Lucent Technologies / Milo Orsic	IMS-CCR	1.1.0	Rel-5	24.228	CR	8.04		REVISED TO 1025
N1-010935	Current draft 24.229: "IP Multimedia Call Control Protocol based on SIP and SDP"	Lucent Technologies / Keith Drage	IMS-CCR	0.3.0	Rel-5	24.229	TS	8.03		NOTED
N1-010936	Filter Criteria for ISC Interface	Ericsson	IMS-CCR	0.5.0	Rel-5	23.218	DISCUSSION	8.01		WITHDRAW
N1-010937	Network Controlled Authentication Without the Use of A B2BUA	Ericsson	IMS-CCR	1.1.0	Rel-5	24.228	DISCUSSION	8.07		REJECTED
N1-010938	Terminal Capabilities	Ericsson	IMS-CCR	1.1.0	Rel-5	24.228	DISCUSSION	8.13		Not available
N1-010939	Network Configuration Hiding with a BGCF	Ericsson	IMS-CCR	1.1.0	Rel-5	24.228	CR	8.06		WITHDRAW
N1-010940	Comments on Signaling Flows for REGISTER	AT&T Wireless	IMS-CCR	1.1.0	Rel-5	24.228	CR	8.04		REVISED TO 1047
N1-010941	Missing QoS Interaction in 24.228 Procedures	AT&T Wireless	IMS-CCR	1.1.0	Rel-5	24.228	CR	8.02		AGREED
N1-010942	Revision of the key in 24.228 for empty headers	Motorola, Ericsson / J O'Hare	IMS-CCR	1.1.0	Rel-5	24.228	CR	8.11		AGREED
N1-010943	Proposal to delay implementation of N1-010893 "Proposed revision of the presentation of SIP	Motorola, Ericsson / J O'Hare	IMS-CCR	1.1.0	Rel-5	24.228	CR	8.11	Agreed to delay introduction of the new notation.	AGREED

	headers in 24.228" "									
N1-010944	24.228v110 "Signalling flows for the IP multimedia call control based on SIP and SDP"	Motorola / Ericsson J. O'Hare	IMS-CCR	1.1.0	Rel-5	24.228	INFO	8.02		NOTED
N1-010945	CR to 24.228: A review of the editor's notes in clause 7 (prior to clause 7.1)	Lucent Technologies / Keith Drage	IMS-CCR	1.1.0	Rel-5	24.228	CR	8.04		AGREED
N1-010946	CR to 24.228: A review of the editor's notes in clause 7.1 and 7.3	Lucent Technologies / Keith Drage	IMS-CCR	1.1.0	Rel-5	24.228	CR	8.04	Agreed except editors note 2 and 4 remains unchanged.	AGREED
N1-010947	CR to 24.228: A review of the editor's notes in clause 7.2	Lucent Technologies / Keith Drage	IMS-CCR	1.1.0	Rel-5	24.228	CR	8.04		AGREED
N1-010948	CR to 24.228: A review of the editor's notes in clause 7.4	Lucent Technologies / Keith Drage	IMS-CCR	1.1.0	Rel-5	24.228	CR	8.05		REJECTED
N1-010949	CR to 24.228: A review of the editor's notes in clause 8.1	Lucent Technologies / Keith Drage	IMS-CCR	1.1.0	Rel-5	24.228	CR	8.08		Not treated due to lack of time
N1-010950	CR to 24.228: A review of the editor's notes in clause 8.2	Lucent Technologies / Keith Drage	IMS-CCR	1.1.0	Rel-5	24.228	CR	8.08		Not treated due to lack of time
N1-010951	CR to 24.228: Network initiated deregistration upon UE roaming without de-registration	Lucent Technologies / Xin Chen	IMS-CCR	1.1.0	Rel-5	24.228	CR	8.05	Revised to 1022	WITHDRAW
N1-010952	CR to 24.228: Adding Date header in registration flows	Lucent Technologies / Xin Chen	IMS-CCR	1.1.0	Rel-5	24.228	CR	8.04		AGREED
N1-010953	CR to 24.228: The deletion of Proxy-Require header	Lucent Technologies / Xin Chen	IMS-CCR	1.1.0	Rel-5	24.228	CR	8.08		AGREED
N1-010954	CR to 24.229: An analysis of the requirements for the Date header	Lucent Technologies / Keith Drage	IMS-CCR	0.3.0	Rel-5	24.229	CR	8.13		Not available
N1-010955	CR to 24.229: Editorial corrections	Lucent Technologies / Keith Drage	IMS-CCR	0.3.0	Rel-5	24.229	CR	8.11	E-Mail APPROVAL UNTIL 23/7 17:00. Per is co-ordinator	REJECTED
N1-010956	CR to 24.229: Path mechanism	Lucent Technologies / Milo Orsic	IMS-CCR	0.3.0	Rel-5	24.229	CR	8.04		REVISED TO 1028
N1-010957	CR to 24.229: Route establishment procedure	Lucent Technologies / Milo Orsic	IMS-CCR	0.3.0	Rel-5	24.229	CR	8.04		REVISED TO 1029
N1-010958	CR to 24.229: P-CSCF processing of	Lucent Technologies	IMS-CCR	0.3.0	Rel-5	24.229	CR	8.08		REVISED TO 1048

	the initial INVITE request	es / Milo Orsic								
N1-010959	CR to 24.229: I-CSCF processing of the initial INVITE request	Lucent Technologies / Milo Orsic	IMS-CCR	0.3.0	Rel-5	24.229	CR	8.08		REVISED TO 1049
N1-010960	CR to 24.229: S-CSCF processing of the initial INVITE request	Lucent Technologies / Milo Orsic	IMS-CCR	0.3.0	Rel-5	24.229	CR	8.08		REVISED TO 1050
N1-010961	Notation conventions	Nokia/Bajkó Gábor	IMS-CCR	1.1.0	Rel-5	24.228	CR	8.03		REVISED TO 1024
N1-010962	Network Initiated Deregistration changes	Nortel Networks	IMS-CCR	1.1.0	Rel-5	24.228	CR	8.05		WITHDRAW
N1-010963	Explicit Subscription for User's Registration information	Nortel Networks	IMS-CCR	1.1.0	Rel-5	24.228	CR	8.04		REVISED TO 1030
N1-010964	Corrections to 24.228	Nortel Networks	IMS-CCR	1.1.0	Rel-5	24.228	CR	8.11	E-Mail APPROVAL UNTIL 23/7 17:00. Per is co-ordinator	AGREED
N1-010965	Anonymity	Nokia/Bajkó Gábor	IMS-CCR	1.1.0	Rel-5	24.228	CR	8.08		NOTED
N1-010966	SDP in Prack	Nokia/Bajkó Gábor	IMS-CCR	1.1.0	Rel-5	24.228	CR	8.08	Revised to 1021	WITHDRAW
N1-010967	#2 Flow updates	Nokia/Bajkó Gábor	IMS-CCR	1.1.0	Rel-5	24.228	CR	8.08		REJECTED
N1-010968	#1 Flow updates	Nokia/Bajkó Gábor	IMS-CCR	1.1.0	Rel-5	24.228	CR	8.08		REJECTED
N1-010969	Warning header in 403 Forbidden	Nokia/Bajkó Gábor	IMS-CCR	1.1.0	Rel-5	24.228	CR	8.10		AGREED
N1-010970	Roaming not allowed	Nokia/Bajkó Gábor	IMS-CCR	1.1.0	Rel-5	24.228	CR	8.10		AGREED
N1-010971	Subscribing for the Network Initiated Deregistration event	Nokia/Krisztian Kiss	IMS-CCR	1.1.0	Rel-5	24.228	CR	8.05		REVISED TO 1030
N1-010972	The content of To: and From: fields	Nokia/Bajkó Gábor	IMS-CCR	1.1.0	Rel-5	24.228	CR	8.08		NOTED
N1-010973	Document restructuring	Nokia/Bajkó Gábor	IMS-CCR	1.1.0	Rel-5	24.228	CR	8.11		NOTED
N1-010974	Registration Flow updates	Nokia/Bajkó Gábor	IMS-CCR	1.1.0	Rel-5	24.228	CR	8.04		WITHDRAW
N1-010975	Network Initiated Deregistration	Nokia/Krisztian Kiss	IMS-CCR	1.1.0	Rel-5	24.228	CR	8.05		REVISED TO 1036
N1-010976	Response to Liaison Statement on the IM Call Transfer Service N1-010890 (S3-010249)	S3					LS IN	8.02	S3-010292, To : N1, Cc:CN2, CN3, CN4, SA5	NOTED



N1-010977	Using a generic authentication scheme for SIP	S3					LS IN	3	S3-010287, To: N1, N4 CC: SA2	LS OUT in 1020 by Andrew
N1-010978	Reply to LS on "Handling of ICMP messages by 3GPP SIP Implementations"	S3					LS IN	3	S3-010274, To: N1	NOTED
N1-010979	Reply to N1-010890 "Liaison Statement on the IM Call Transfer service"	S5					LS IN	8.02	S5-010324, To: Joint CN1/2/3/4	NOTED
N1-010980	Workplan of 12th June for N1 review	MCC					WORK PLAN	4		NOTED
N1-010981	23.218 v051 IP Multimedia (IM) Session Handling;IP Multimedia (IM) call model	Motorola, Andrew Allen	IMS-CCR	0.5.1	Rel-5	23.218	INFO	8.01		NOTED
N1-010982	Removal of I-CSCF and P-CSCF from Section 5 of 23.218	Motorola, Andrew Allen	IMS-CCR	0.5.1	Rel-5	23.218	CR	8.01		AGREED
N1-010983	Modifications to layout of 23.218 based on revised SA2 architecture for Service Control and selection of SIP for the ISC interface protocol	Motorola Andrew Allen	IMS-CCR	0.5.1	Rel-5	23.218	DISC	8.01	See the minutes for the agreement.	AGREED
N1-010984	SIP/SDP Compression	Motorola, Andrew Allen	IMS-CCR	1.1.0	Rel-5	24.228	DISC	8.08		NOTED
N1-010985	Document Structure for the Cx Interface Protocol Standards	Lucent Technologies / Nigel Berry	IMS-CCR				DISCUSSION	8.02		NOTED
N1-010986	CR to 23.218: Information Flows for IMS Service Examples: Call Forwarding Scenarios	Lucent Technologies / Moh Torabi	IMS-CCR	0.5.0	Rel-5	23.218	CR	8.01	Revised to 1015	WITHDRAW
N1-010987	CR to 23.218: Pre-paid Service Control Examples	Lucent Technologies / Moh Torabi	IMS-CCR	0.5.0	Rel-5	23.218	CR	8.01	Revised to 1016	WITHDRAW
N1-010988	Updates to CAMEL sections in 23.218	Lucent Technologies / Michel Grech	IMS-CCR	0.5.0	Rel-5	23.218	CR	8.01	Revised to 1026	WITHDRAW
N1-010989	CR to 23.218: Additional changes to initial filter criteria based on N1-010930	Lucent Technologies / Xin Chen	IMS-CCR	0.5.0	Rel-5	23.218	CR	8.01	Revised to 1017	WITHDRAW
N1-010990	CR to 23.218: Revision of the originating and terminating call state models	Lucent Technologies / Michel Grech	IMS-CCR	0.5.0	Rel-5	23.218	CR	8.01	Revised to 1027	WITHDRAW
N1-010991	CR to 24.228: Correction on Content-Length	Lucent Technologies / Xin	IMS-CCR	1.1.0	Rel-5	24.228	CR	8.08		AGREED

	header in INVITE	Chen								
N1-010992	CR to 24.228: Private user identity within REGISTER requests	Lucent Technologies / Xin Chen	IMS-CCR	1.1.0	Rel-5	24.228	CR	8.04		REVISED TO 1031
N1-010993	CR to 24.228: Proposal for Media Gating Timing at MGW for Early Media	Lucent Technologies / Daisuke Yokota	IMS-CCR	1.1.0	Rel-5	24.228	CR	8.02		REJECTED
N1-010994	CR to 24.228: Removal of the T-SGW	Lucent Technologies / Keith Drage	IMS-CCR	1.1.0	Rel-5	24.228	CR	8.02		AGREED
N1-010995	CR to 24.228: Correct placement of state info tables	Lucent Technologies / Keith Drage	IMS-CCR	1.1.0	Rel-5	24.228	CR	8.08		AGREED
N1-010996	CR to 24.228: Minor corrections	Lucent Technologies / Keith Drage	IMS-CCR	1.1.0	5	24.228	CR	8.11	E-Mail APPROVAL UNTIL 23/7 17:00. Per is co-ordinator	REJECTED
N1-010997	S-CSCF Rolemapping	Siemens	IMS-CCR				DISCUSSION	8.01		NOTED
N1-010998	DISCUSSION to 24.228: Use of Event Notification within Registration	Lucent Technologies / Keith Drage	IMS-CCR	1.1.0	Rel-5	24.228	DISCUSSION	8.04	The need for P-CSCF to run registration timer shall be checked with SA2.	AGREED
N1-010999	Proposal on the work split of "End-to-end QoS Stage 3" among CN and RAN working groups	Lucent Technologies / Daisuke Yokota	IMS-CCR				WORK PLAN	8.02		NOTED
N1-011000	CR to 24.228: General editorial issues	Lucent Technologies / Keith Drage	IMS-CCR	1.1.0	5	24.228	CR	8.11	E-Mail APPROVAL UNTIL 23/7 17:00. Per is co-ordinator	REJECTED
N1-011001	DRAFT STATUS REPORT v1.1.0 3GPP TSG-CN#12	N1 chairman					REPORT	2		NOTED
N1-011002	Meeting Report TSG CN WG1# 17 Puerto Rico, USA 14 - 18 May 2001	MCC					REPORT	2		AGREED
N1-011003	Addressing B2BUA in a SIP network	Ericsson	IMS-CCR				DISCUSSION	8.01		Not treated due to lack of time
N1-011004	Network Controlled Session Disconnection	Ericsson	IMS-CCR				DISCUSSION	8.01		Not treated due to lack of time
N1-011005	Network Controlled Session Setup, Modification	Ericsson					DISCUSSION	8.01		NOTED
N1-011006	Network Controlled Addition/Removal of legs	Ericsson					DISCUSSION	8.01		Not treated due to lack of time
N1-011007	Handling of Unsupported media types in SDP	InterDigital Communication	IMS-CCR	1.1.0	Rel-5	24.228	CR	8.02		Not available

N1-011008	LS on ISC	S2					LS IN	8.01	S2-011685, To: N1, N2, N5, N4	NOTED
N1-011009	LS on SIP Compression between UE and P-CSCF	S2					LS IN	3	S2-011701, To: N1, GERAN, R2	NOTED
N1-011010	LS on Future proof specification of the Go interface	S2					LS IN	8.02	S2-011696 (S2-011677 in the doc itself), To: N3 CC: N1	LS OUT in 1046 by Sun
N1-011011	LS on Cell ID in SIP messages	S2					LS IN	3	S2-011697, To: N1, N4, T2, R2, GERAN 2, S1, S3	NOTED
N1-011012	CR to 24.228: Quality of Service Authorization in IM CN subsystem	Lucent Technologies / Xin Chen	IMS-CCR	1.1.0	Rel-5	24.228	CR	8.02		REJECTED
N1-011013	CR to 23.218: Filter Criteria mode in IMS	Lucent Technologies/Xin Chen	IMS-CCR	0.5.0	Rel-5	23.218	CR	8.01	Revision of 930. Agreed on alternative 2 and changes in section 5.	AGREED
N1-011014	CR to 23.218: Initial filter criteria in IMS	Lucent Technologies/Xin Chen	IMS-CCR	0.5.0	Rel-5	23.218	CR	8.01	Revision of 931	WITHDRAW
N1-011015	CR to 23.218: Information Flows for IMS Service Examples: Call Forwarding Scenarios	Lucent Technologies / Moh Torabi	IMS-CCR	0.5.0	Rel-5	23.218	CR	8.01	Revision of 986	Not treated due to lack of time
N1-011016	CR to 23.218: Pre-paid Service Control Examples	Lucent Technologies / Moh Torabi	IMS-CCR	0.5.0	Rel-5	23.218	CR	8.01	Revision of 987	Not treated due to lack of time
N1-011017	CR to 23.218: Additional changes to initial filter criteria based on N1-010930	Lucent Technologies / Xin Chen	IMS-CCR	0.5.0	Rel-5	23.218	CR	8.01	Revision of 989	REVISED TO 1043
N1-011018	Filter Criteria and Service Points of Interests	Siemens					DISCUSSION	8.01		Not treated due to lack of time
N1-011019	Liaison Statement on "Clarifications of aspects of Multimedia Capabilities [ID 1281]"	Keith					LS OUT	9	To:T2, CN4 cc:SA2 Reply to 921.	REVISED TO 1051
N1-011020	Reply LS on "Using a generic authentication scheme for SIP"	Andrew					LS OUT	9	To: SA3 Reply to 977.	REVISED TO 1052
N1-011021	SDP in Prack	Nokia/Bajkó Gábor	IMS-CCR	0.3.0	Rel-5	24.229	CR	8.08	Revised from 966	REVISED TO 1054
N1-011022	CR to 24.228: Network initiated deregistration upon UE roaming without de-registration	Lucent Technologies / Xin Chen	IMS-CCR	1.1.0	Rel-55	24.228	CR	8.05	Revised from 951	REVISED TO 1038
N1-011023	An alternative solution to the Path: header extension	Ericsson, DynamicSoft, Nortel					DISCUSSION	8.04		Not treated due to lack of time

N1-011024	Notation conventions	Nokia/ Bajkó Gábor	IMS- CCR	1.1.0	Rel -5	24.228	CR	8.03	Revised from 961	AGREED
N1-011025	CR to 24.228: Handling of contact header by the P- CSCF	Lucent Technologi es / Milo Orsic	IMS- CCR	1.1.0	Rel -5	24.228	CR	8.04	Revised from 934	NOTED
N1-011026	Updates to CAMEL sections in 23.218	Lucent Technologi es / Michel Grech	IMS- CCR	0.5.0	Rel -5	23.218	CR	8.01	Revised from 988	REVISED TO 1044
N1-011027	CR to 23.218: Revision of the originating and terminating call state models	Lucent Technologi es / Michel Grech	IMS- CCR	0.5.0	Rel -5	23.218	CR	8.01	Revised from 990	REVISED TO 1045
N1-011028	CR to 24.229: Path mechanism	Lucent Technologi es / Milo Orsic	IMS- CCR	0.3.0	Rel -5	24.229	CR	8.04	Revised from 956	AGREED
N1-011029	CR to 24.229: Route establishment procedure	Lucent Technologi es / Milo Orsic	IMS- CCR	0.3.0	Rel -5	24.229	CR	8.04	Revised from 957	REVISED TO 1055
N1-011030	Explicit Subscription for Network Initiated Deregistration Event	Nortel Networks/N okia	IMS- CCR	1.1.0	Rel -5	24.228	CR	8.04	Revised from 963 and 971	AGREED
N1-011031	CR to 24.228: Private user identity within REGISTER requests	Lucent Technologi es / Xin Chen	IMS- CCR	1.1.0	5	24.228	CR	8.04	Revised from 992	AGREED
N1-011032	Liaison Statement on "Progressing the work in SA3 and CN1 on the IP Multimedia core network subsystem"	S3					LS IN	3	S3-010391, To: CN1	WITHDRAW
N1-011033	Summary of IMS work within SA3 (presentation)	Ericsson/Kr ister B.					OTHE R	8.13		NOTED
N1-011034	Network Configuration Independence Mechanism	S3					LS IN	3	S3-010398, To: CN1 and SA2	Forwarded to CN1#19
N1-011035	Liaison Statement on "Progressing the work in SA3 and CN1 on the IP Multimedia core network subsystem"	S3					LS IN	3	S3-010404, To: CN1	Forwarded to CN1#19
N1-011036	Network Initiated Deregistration	Nokia/ Krisztian Kiss	IMS- CCR	1.1.0	Rel -5	24.228	CR	8.05	Revised from 975	AGREED
N1-011037	Flows related to Authenticated Registrations and Re- Registrations	S3					LS IN	3	S3-010382, To: S2, N1, N4	Forwarded to CN1#19
N1-011038	CR to 24.228: Network initiated deregistration upon UE roaming without	Lucent Technologi es / Xin Chen	IMS- CCR	1.1.0	Rel -5	24.228	CR	8.05	Revised from 1022	AGREED

	de-registration									
N1-011039	Stage 2 information flows for authenticated registration and re-registration in the IMS	S3					LS IN	3	S3-010387, To: S2, N1, N4	Forwarded to CN1#19
N1-011040	Requirements related to private and public identities in IMS	S3					LS IN	3	S3-010402, To:SA2, CN4 Cc:SA1, CN1	Forwarded to CN1#19
N1-011041	On the use of Network Domain Security for protection of SIP signalling messages	S3					LS IN	3	S3-010403, To:SA2, CN4, CN1	Forwarded to CN1#19
N1-011042	Cx Documentation Approach	Ericsson/Motorola, Nokia, Siemens					DISCUSSION	8.02		Endorced
N1-011043	CR to 23.218: Additional changes to initial filter criteria based on N1-010930	Lucent Technologies / Xin Chen	IMS-CCR	0.5.0	Rel-5	23.218	CR	8.01	Revised from 1017	AGREED
N1-011044	Updates to CAMEL sections in 23.218	Lucent Technologies / Michel Grech	IMS-CCR	0.5.0	Rel-5	23.218	CR	8.01	Revised from 1026	AGREED
N1-011045	CR to 23.218: Revision of the originating and terminating call state models	Lucent Technologies / Michel Grech	IMS-CCR	0.5.0	Rel-5	23.218	CR	8.01	Revised from 1027	AGREED
N1-011046	Liaison Statement on "Reply to LS on Future proof specification of the Go interface "	Sunil					LS OUT	9	From: joint CN1-4 session To:TSG_SA2 cc:TSG CN3 Reply to 1010.	REJECTED
N1-011047	Registration flow update	AT&T wireless/Nokia		1.1.0		24.228	CR	8.04	Revised from 940	AGREED
N1-011048	CR to 24.229: P-CSCF processing of the initial INVITE request	Lucent Technologies / Milo Orsic	IMS-CCR	0.3.0	Rel-5	24.229	CR	8.08	Revised from 958	REVISED TO 1056
N1-011049	CR to 24.229: I-CSCF processing of the initial INVITE request	Lucent Technologies / Milo Orsic	IMS-CCR	0.3.0	Rel-5	24.229	CR	8.08	Revised from 959	REJECTED
N1-011050	CR to 24.229: S-CSCF processing of the initial INVITE request	Lucent Technologies / Milo Orsic	IMS-CCR	0.3.0	Rel-5	24.229	CR	8.08	Revised from 960	AGREED
N1-011051	Liaison Statement on " Clarifications of aspects of Multimedia Capabilities [ID 1281]"	Keith					LS OUT	9	To:T2, CN4 cc:SA2 Revised from 1019. Reply to 921.	AGREED
N1-011052	Reply LS on "Using a generic authentication scheme for SIP"	Andrew					LS OUT	9	To: SA3 Revised from 1020. Reply to 977.	AGREED
N1-011053	Proposal on the work split of "End-to-end	N3					INFO	8.02	Tdoc N3-010326	NOTED

	QoS Stage 3" among CN working groups.									
N1-011054	SDP in Prack	Nokia/Bajkó Gábor	IMS-CCR	0.3.0	Rel-5	24.229	CR	8.08	Revised from 1021	WITHDRAW
N1-011055	CR to 24.229: Route establishment procedure	Lucent Technologies / Milo Orsic	IMS-CCR	0.3.0	Rel-5	24.229	CR	8.04	Revised from 1029	AGREED
N1-011056	CR to 24.229: P-CSCF processing of the initial INVITE request	Lucent Technologies / Milo Orsic	IMS-CCR	0.3.0	Rel-5	24.229	CR	8.08	Revised from 1048	AGREED

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## Annex E Liaison Statements OUT

Status	TDoc #	Source	Tdoc Title	Type	Comments
AGREED	N1-011051	Keith	Liaison Statement on "Clarifications of aspects of Multimedia Capabilities [ID 1281]"	LS OUT	To:T2, CN4 cc:SA2 Revised from 1019. Reply to 921.
AGREED	N1-011052	Andrew	Reply LS on "Using a generic authentication scheme for SIP"	LS OUT	To: SA3 Revised from 1020. Reply to 977.

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## Annex F Ageed Work Items

None

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## Annex G Agreed specifications (TS or TR)

None

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## Annex H List of CRs to N1 drafts

TDoc #	Status	Spec	Tdoc Title	C_Version	Type	WI	Rel
N1-010932	AGREED	24.228	CR to 24.228: Editorial corrections	1.1.0	CR	IMS-CCR	Rel-5
N1-010941	AGREED	24.228	Missing QoS Interaction in 24.228 Procedures	1.1.0	CR	IMS-CCR	Rel-5
N1-010942	AGREED	24.228	Revision of the key in 24.228 for empty headers	1.1.0	CR	IMS-CCR	Rel-5
N1-010943	AGREED	24.228	Proposal to delay implementation of N1-010893 "Proposed revision of the presentation of SIP headers in 24.228" "	1.1.0	CR	IMS-CCR	Rel-5
N1-010945	AGREED	24.228	CR to 24.228: A review of the editor's notes in clause 7 (prior to clause 7.1)	1.1.0	CR	IMS-CCR	Rel-5

N1-010946	AGREED	24.228	CR to 24.228: A review of the editor's notes in clause 7.1 and 7.3	1.1.0	CR	IMS-CCR	Rel-5
N1-010947	AGREED	24.228	CR to 24.228: A review of the editor's notes in clause 7.2	1.1.0	CR	IMS-CCR	Rel-5
N1-010952	AGREED	24.228	CR to 24.228: Adding Date header in registration flows	1.1.0	CR	IMS-CCR	Rel-5
N1-010953	AGREED	24.228	CR to 24.228: The deletion of Proxy-Require header	1.1.0	CR	IMS-CCR	Rel-5
N1-010964	AGREED	24.228	Corrections to 24.228	1.1.0	CR	IMS-CCR	Rel-5
N1-010969	AGREED	24.228	Warning header in 403 Forbidden	1.1.0	CR	IMS-CCR	Rel-5
N1-010970	AGREED	24.228	Roaming not allowed	1.1.0	CR	IMS-CCR	Rel-5
N1-010982	AGREED	23.218	Removal of I-CSCF and P-CSCF from Section 5 of 23.218	0.5.1	CR	IMS-CCR	Rel-5
N1-010991	AGREED	24.228	CR to 24.228: Correction on Content-Length header in INVITE	1.1.0	CR	IMS-CCR	Rel-5
N1-010994	AGREED	24.228	CR to 24.228: Removal of the T-SGW	1.1.0	CR	IMS-CCR	Rel-5
N1-010995	AGREED	24.228	CR to 24.228: Correct placement of state info tables	1.1.0	CR	IMS-CCR	Rel-5
N1-011013	AGREED	23.218	CR to 23.218: Filter Criteria mode in IMS	0.5.0	CR	IMS-CCR	Rel-5
N1-011045	AGREED	23.218	CR to 23.218: Revision of the originating and terminating call state models	0.5.0	CR	IMS-CCR	Rel-5
N1-011047	AGREED	24.228	Registration flow update	1.1.0	CR		
N1-011050	AGREED	24.229	CR to 24.229: S-CSCF processing of the initial INVITE request	0.3.0	CR	IMS-CCR	Rel-5
N1-011055	AGREED	24.229	CR to 24.229: Route establishment procedure	0.3.0	CR	IMS-CCR	Rel-5
N1-011056	AGREED	24.229	CR to 24.229: P-CSCF processing of the initial INVITE request	0.3.0	CR	IMS-CCR	Rel-5
N1-011024	AGREED	24.228	Notation conventions	1.1.0	CR	IMS-CCR	Rel-5
N1-011028	AGREED	24.229	CR to 24.229: Path mechanism	0.3.0	CR	IMS-CCR	Rel-5
N1-011030	AGREED	24.228	Explicit Subscription for Network Initiated Deregistration Event	1.1.0	CR	IMS-CCR	Rel-5
N1-011043	AGREED	23.218	CR to 23.218: Additional changes to initial filter criteria based on N1-010930	0.5.0	CR	IMS-CCR	Rel-5
N1-011044	AGREED	23.218	Updates to CAMEL sections in 23.218	0.5.0	CR	IMS-CCR	Rel-5
N1-011031	AGREED	24.228	CR to 24.228: Private user identity within REGISTER requests	1.1.0	CR	IMS-CCR	5
N1-011036	AGREED	24.228	Network Initiated Deregistration	1.1.0	CR	IMS-CCR	Rel-5
N1-011038	AGREED	24.228	CR to 24.228: Network initiated deregistration upon UE roaming without de-registration	1.1.0	CR	IMS-CCR	Rel-5

## CRs for e-mail agreement

Status	TDoc #	CR #	Spec	Rev	Tdoc Title	C_Version	Type	WI	Rel
E-Mail APPROVAL UNTIL 23/7 17:00	N1-010955		24.229		CR to 24.229: Editorial corrections	0.3.0	CR	IMS-CCR	Rel-5
E-Mail APPROVAL UNTIL 23/7 17:00	N1-010964		24.228		Corrections to 24.228	1.1.0	CR	IMS-CCR	Rel-5
E-Mail APPROVAL UNTIL 23/7 17:00	N1-010996		24.228		CR to 24.228: Minor corrections	1.1.0	CR	IMS-CCR	Rel-5
E-Mail APPROVAL UNTIL 23/7 17:00	N1-011000		24.228		CR to 24.228: General editorial issues	1.1.0	CR	IMS-CCR	Rel-5

## Documents Endorsed by N1

Age nda	TDoc #	Tdoc Title	Source	WI	C_Version	Rel	CA T	Sp ec	CR #	Rev	Type	Comm ents	Status
8.02	N1-011042	Cx Documentation Approach	Ericsson/Motorola, Nokia, Siemens								DISCUSSION		Endorce