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Meeting Report
TSG CN WG1# 25
Helsinki, Finland
29 July - 02 August 2002

Chairman: Hannu Hietalahti (Nokia)

Secretary: Per Johan Jorgensen (ETSI/MCC)

Host: Finnish friends of 3GPP

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Documents can be found on the 3GPP-server:

http://www.3gpp.org/ftp/tsg_cn/WG1_mm-cc-sm/TSGN1_25/Docs/

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1 Opening of the meeting. Calls for IPRs

The delegates were welcomed and informed on the logistics, and the invitation to the social event.

IPR rights were asked to be disclosed according to respective organizations IPR policies. **Individual Members should declare at the earliest opportunity, any IPRs which they believe to be essential, or potentially essential, to any work ongoing within 3GPP.**

In the beginning of the meeting it was not known of any candidates for election of the second vice chairman, but an election will be held during this meeting on wednesday lunch, or the next meeting if a candidate steps forward. During the meeting no candidates were identified so the election is postponed.

2 Agenda and Reports

N1-021515 : CN1 chairman, Title: Agenda (Helsinki0207)

Discussion : This will continue as a living document in the doc Helsinki0207.

A joint meetings will take place with CN4 on wednesday at 09:00, and run by CN1 using N1 tdoc numbering. During the meeting it turned out that a meeting with CN3 were also wanted, so that one took place on Tuesday evening at 18:00. The joint session were also run by CN1 with N1 tdoc-numbering.

Conclusion : *Agreed*

3 Input Liaison Statements

N1-021520 : G2-020659, To: CN1, SA2, Cc:, Type: LS IN, Title: LS on the support of Intra Domain Connection of RAN Nodes to Multiple CN Nodes

Discussion : GERAN2 have added Global CN Id IE in PAGING CS PDU in 48.018. They reference 29.018 for encoding of the new IE and therefore CN1 should ensure that the defined encoding works also for the new IE. No CR has been made on 29.018 for this meeting, and it was discussed wether a CR was needed. Siemens will do one CR for the next meeting to clear out the ambiguity. An LS will be done then to inform of the outcome.

Conclusion: *Noted and a LS out delayed to next meeting*

N1-021521 : G2-020684, To: CN1, CN3, SA2, Cc:, Type: LS IN, Title: LS on CS data services for GERAN Iu-mode

Discussion : Three alternative ways are foreseen for GERAN Iu-mode HSCSD design. GERAN2 asks the opinion on these from SA2, CN1 and CN3. SA2 in their LS N1-021537 recommend option 1. N1-021521 and 1537 are related. SA2 has responded with option 1 with full alignment to UMTS. N1-021689 and a similar CN3 contribution to CN3 from Siemens need to be awaited before progressing this incoming LS. The user plane issue is emphasised. No CR could be provided for this meeting.

Conclusion: *Noted*

N1-021522 : GP-021882, To: SA4, Cc: SA2, CN1, CN3, RAN3, Type: LS IN, Title: LS Response to a Liaison on "Maximum and Minimum IP Packet Size" for REL-4 and REL-5.

Discussion : GERAN answers to SA4 that there is no other limit to IP packet size than 1500 octets defined in 23.107. Even that can be exceeded by segmenting the packets but in unacknowledged RLC mode the data unit loss rate is proportional to the the packet size and is likely to force the usage of smaller packet size. In acknowledged mode the delivery of the packets can be ensured. N1-021522, 1533 and 1546 are related.

Conclusion: *Noted*

N1-021523 : GP-022012, To: SA2, SA3, Cc: CN1, CN3, Type: LS IN, Title: LS on A/Gb evolution

Discussion : GERAN informs SA2 of a new ongoing work in A/Gb evolution in WID Multiple TBF in A/Gb mode and feasibility studies in PS Handover and BSS Relocation in A/Gb mode and Enhanced support for Conversational and Streaming Services (IMS) in A/Gb mode.

Conclusion: Noted

N1-021524 : GP-022027, To: CN1, Cc: GSMA, Type: LS IN, Title: LS on Support of R99 Mobile Stations in R97 Networks

Discussion : GERAN ask CN1 to endorse the analysis they have made on the usage of MS CM revision level. CN1 is also asked to consider a correction to 04.08 and 24.008 to remove any possibility for misunderstanding in the future when the next revision level is taken in use. Fallback are designed in the network, but some 'older' networks fail to service 'newer' MSs due to wrong usage of 'reserved for future use' triggering mandatory error handling. Should CRs be written from R97 onwards ? Proposal to only respond with a LS with copy to GSMA agreeing the analysis by GERAN and request that networks are updated if they reject R99 mobiles for this reason.

Conclusion: LS OUT in 1755 by Inma

N1-021525 : GP-022088, To: CN1, Cc: , Type: LS IN, Title: LS on GERAN Iu Mode Capability

Discussion : CN1 is asked to endorse the attached CR. The CR introduces an indicator bit to GERAN Iu mode support and it has been split out to a separate document in N1-021747. The outcome of the CR will be responded back.

Conclusion: LS OUT in 1756 by Hannu

N1-021526 : GP-022115, To: CN1, Cc: SA1, Type: LS IN, Title: LS on Terminal determination of support of EGPRS in the network (reply to N1-021477)

Discussion : Reply to N1-021477. GERAN confirm that it is the intention that UE checks the EGPRS capability of the network from the Cell Options EGPRS indication rather than from the MSC and SGSN related R-bit which is more related with the CN entity reference version. They ask CN1 to clarify the definition of both R-bits in 24.008 to remove the ambiguity. 24.007 has some reference to this bit which is defined in 04.18/44.018 under GERAN control. Any clarification should be done here, but it is maybe sufficient description for the MSC bit. No CR is available to this meeting, but one will be attempted especially for the SGSN or in general. See CRs in N1-021806-808 and also CN1 reply in N1-021805.

Conclusion: Noted

N1-021527 : N3-020486, To: CN1, SA2, Cc:, Type: LS IN, Title: Liaison statement on the wildcarding of source IP addresses and port numbers in the PCF for the packet classifier

Discussion : SDP only identifies the destination IP address and port number (i.e. that the user "receives" the media on). It is possible that the user's "receive" IP addresses and port numbers may differ from the IP addresses and port numbers on which they are transmitting. CN3 would like to hear SA2 and CN1 opinion on whether this is a problem considering packet filtering and authorisation. SA2 reply is in N1-021539. N1-021527 and 1539 are related.

Conclusion: LS OUT in 1757 by Jerome P.

N1-021528 : N4-020767, To: CN1, Cc:, Type: LS IN, Title: LS on Sh interface signalling

Discussion : CN4 asks CN1 to review the assumptions CN4 have made in their work on Sh interface. No comments were made on these basic flow assumptions and therefore accepted,- but the AS can not access all HSS data, and also comments on what is the data restrictions and granularity on the transfer.

Conclusion: LS OUT in 1758 by Georg M.

N1-021529 : R2-021302, To: CN1, SA2, Cc:, Type: LS IN, Title: Response on UMTS to GSM change during signalling phase of CS call setup

Discussion : Reply to N1-020930. RAN2 agrees with CN1 that NAS procedures must be aborted when a cell reselection from UMTS to GSM occurs during the CS signalling. Instead of fixing the problem to allow the signalling to continue, CN1 is asked to check that our CN specifications are in line with this understanding. Should NAS procedures be aborted ? The protocol survives but the call does not progress. Postponed, did RAN2 abandon the usage

of Cell FACCH for CS call setup or not? More off-line discussions are needed. At cell change the signalling will be dropped and the user should retry. No action now.

Conclusion: Noted

N1-021530 : R2-021375, To: CN1, RAN3, Cc:, Type: LS IN, Title: LS on GSM to UMTS handover and SRNC location

Discussion : It was clarified that the RNC (in some cases) should trigger the RRC “UTRAN mobility information” procedure to the UE giving the new RA. This is relayed to upper layers (i.e. NAS). From this, a PMM procedure is triggered (i.e. RA update) which in turns re-establishes the Iu-ps connection and re-synchronises the mobility entities in the CN. Since UTRAN is not aware whether UE is PS attached or not, it will systematically trigger the RRC UTRAN mobility information procedure to give the new RA to the UE even if it is not PS capable or PS attached. Does this cause any problem for CN1? No problems were announced.

Conclusion: Noted

N1-021531: R2-021469, To: SA1, Cc: SA2, SA3, SA5, CN1, CN4, RAN3, T2, T3, Type: LS IN, Title: Response to LS (S1-020642) on Priority Service Feasibility Study

Discussion : RAN2 have analysed the Priority Service TR from SA1 and give comments on how the service could be implementing by means of access classes.

Conclusion: Noted

N1-021532 : R3-021795, To: CN4, SA2, Cc: CN1, SA1, Type: LS IN, Title: LS on Shared Networks

Discussion : RAN3 reply to CN4 on shared networks in connected mode. Forwarded to CN1 – CN4 joint session.

Conclusion: Forwarded to agenda item 6

N1-021533 : R3-021813, To: SA4, RAN2, Cc: SA2, CN1, CN3, GERAN, Type: LS IN, Title: Liaison on “Maximum and Minimum IP Packet Size” for REL-4 and REL-5

Discussion : Does the recommended 1400 octets cause incompatibility with applications? RAN3 do not see fragmentation of IP packets at lower layers feasible and therefore the MTU size is limited to 1500 octets. But taking into account the overhead caused by different signalling layers, an effective MTU size for the upper layers could be 1436 octets so RAN3 recommend a safe maximum size of 1400 octets. N1-021522, 1533 and 1546 are related.

Conclusion: Noted

N1-021534 : R3-021814, To: SA5, SWGD, Cc: SA, CN1, CN4, GERAN, RAN2, Type: LS IN, Title: Reply LS on Subscriber and Equipment Trace Impacts

Discussion : RAN3 reply to SA5 LS on subscriber and equipment trace.

Conclusion: Noted

N1-021535 : R3-021816, To: SA2, CN4, SA5, Cc:CN1, SA1, Type: LS IN, Title: LS on Shared Networks – Outcome of RAN3 #30

Discussion : RAN3 have agreed the following working assumptions on shared networks in connected mode:

- The Shared Network solution will be based on the SNA concept.
- The solution will allow LAs to be in several SNAs (also known as Overlapping SNAs).
- The solution will use only PLMN-specific SNAs (Universal SNAs are for further study).
- The solution will make use of Information Exchange procedures over Iu (similar to those defined for Rel-4 over Iur) to allow the MSC/VLR to provide the RNC with the SNA definitions for the locally known LAs (either from cells controlled by the RNC or from directly neighbouring cells).

The recipients of the LS are requested to review the attached TR and see if any CRs in their TSs are needed as a consequence. Forwarded to CN1 – CN4 joint session.

Conclusion: Forwarded to agenda item 6

N1-021536 : S2-022004, To: SA5, Cc: CN1, CN3, CN4, Type: LS IN, Title: Liaison statement on IMS Sessions and PDP Contexts (Response on “Distribution of IMS Charging ID (ICID) from GGSN to SGSN “)

Discussion : SA2 reply to SA5 LS that in Rel-5 it is possible that an IMS session uses multiple PDP contexts, while “it is assumed that media components from different IMS sessions are not carried within the same PDP context.” (TS 23.228 v5.5.0, sub-clause 4.2.5.1). This is likely to change in Rel-6.

Conclusion: Noted

N1-021537 : S2-022043, To: GERAN2, CN1, CN3, Cc:, Type: LS IN, Title: LS on CS data services for GERAN Iu-mode

Discussion : SA2 reply to GERAN on HSCSD in GERAN Iu mode that only option 1 is the only one which allows the UMTS principle of functional split between the access network and CN. Therefore SA2 recommend option 1. Related with discussion document in N1-021689.

Conclusion: Noted

N1-021538 : S2-022044, To: CN1, Cc: SA1, Type: LS IN, Title: Response Liaison Statement on IMS Identities for R99/R4 UICC

Discussion : Reply to CN1 LS. SA2 confirms that the triggering of the execution of services is not required when a session request is originated from, or terminated to, a barred public user identity and confirms the approach taken by CN1. Furthermore SA2 does not foresee in Release 5 any other use for the barred public user identity other than to prevent public user identities being used for requests.

Conclusion: Noted

N1-021539 : S2-022045, To: CN3, Cc: CN1, Type: LS IN, Title: Response to: Liaison statement on the wildcarding of source IP addresses and port numbers in the PCF for the packet classifier

Discussion : This is SA2 reply to CN3 LS in N1-021527. SA2 see a potential problem in the scenario described by CN3 and intend to block misuse by forcing at least the IPv6 address prefixes to be the same for both outgoing and incoming data. N1-021527 and 1539 are related. The restriction could be a problem for non-3GPP terminal not following the SA2 recommendation, and also when more terminals share the same prefix.

Conclusion: Noted

N1-021540 : S2-022046, To: CN4, CN1, Cc: SA1, Type: LS IN, Title: LS on dimensioning for IMS services

Discussion : CN1 is asked to consider the maximum number of initial filter criteria per service profile. CN1 is asked to review the attached LS from CN4 on this topic and to reconsider the maximum of 10. One proposal is to limit it to 50, and another is to avoid putting any limits to the Cx interface when no limits are defined in SIP. Rather let it be controlled by memory capacity of S-CSCF and selecting S-CSCF by capabilities. One operator view was to define maximum limits.

Conclusion: LS OUT in 1759 by Miguel G.

N1-021541 : S2-022053, To: CN1, Cc:, Type: LS IN, Title: LS on Modification of IMS signalling PDP context

Discussion : SA2 have agreed a CR to allow acknowledgement from the network when a PDP context has been set up successfully as a signalling PDP context. This allows the UE to give an indication to the user if the requested signalling PDP context is accepted by the serving CN as a normal PDP context. Related CR is in N1-021704. SA2 wants to know if an acknowledgement should be made without agreeing to the CR itself. When to use secondary PDP context for signalling was discussed.

Conclusion: LS OUT in 1764 by Inma C.

N1-021542 : S2-022054, To: RAN3, CN4, CN1, GERAN2, Cc: SA1, Type: LS IN, Title: LS on Shared Networks

Discussion : SA2 answer to RAN3 LS that the Anchor-MSC will provide the Subscriber Access Information to the target RNC in CS domain handover. The other groups are asked to ensure that their specifications (eg 29.002, 23.009, 48.008, 49.008, etc) cover all cases including GSM to UMTS inter-MSC handover when the UMTS MSC is connected to a shared UTRAN. Forwarded to CN1 – CN4 joint session. Tdoc 1685 is related to this for CN1.

Conclusion: Forwarded to agenda item 6

N1-021543 : S3-020312, To: SA2, Cc: SA1, CN1, CN4, T3, Type: LS IN, Title: Reply LS on IMS identities for Rel 99/R4 UICC

Discussion : SA3 acknowledges the operators need to use temporary public user identities and the corresponding requirement in 22.228 to strongly recommend barring these identities but not to mandate it. Not barring these identities opens the possibility to determine a particular users location.

Conclusion: Noted

N1-021544: S3-020316, To: CN1, Cc:, Type: LS IN, Title: Secure registration of IP addresses

Discussion : For security reasons the IP address of the UE must be transferred to P-CSCF integrity protected. However, the IPSec ESP does not protect the IP packet header and therefore the IP address needs to be repeated in some protected area. SA3 assume this to be the contact header in REGISTER message. It was stated that the REGISTER contact header was not the appropriate one for the SA3 purpose. A better solution would be by using the via header, but this was not agreed. Since the whole IP number can not be available this issue needs more consideration. The SA was thought to be created after the first unprotected REGISTER. Should the second REGISTER address only check out the one in the SA?

Conclusion: LS OUT in 1765 by GaborB.

N1-021545: S3-020322, To: CN1, SA2, Cc: SA1, Type: LS IN, Title: LS on subscriber certificates

Discussion : SA3 is working on subscriber certificate feature. Subscriber certificate requests and responses must be transferred on integrity protected channels and therefore CN1 specifications are impacted. CN1 is asked to study these requirements and to propose a suitable mechanism for SA3. Since there is no input to this meeting and CN1 has one more meeting before SA3 meets, this incoming LS is delayed.

Conclusion: Forwarded to CN1#26

N1-021546: S4-020345, To: CN1, CN3, RAN3, GERAN, Cc: SA2, Type: LS IN, Title: Liaison on "Maximum and Minimum IP Packet Size" for REL-4 and REL-5.

Discussion : SA4 asks also CN1 on the limitations of IP packet size. RAN3 and GERAN did already give their answers in other incoming LSs to this meeting. N1-021522, 1533 and 1546 are related. For CN1 specifications the limit is 1502 within QoS in 24.008.

Conclusion: LS OUT in 1754 by Frank S.

N1-021547 : S5-024169, To: CN4, SA2, Cc: CN3, CN1, Type: LS IN, Title: LS-reply to SA2, CN4 on Distribution of IMS Charging ID (ICID) from GGSN to SGSN

Discussion :

Conclusion: Noted

N1-021548 : S5-024170, To: CN1, SA2, Cc:, Type: LS IN, Title: Liaison Statement on Charging at I-CSCF

Discussion : SA5 agree with SA2 in this reply to N1-020948 that the I-CSCF should generate CDRs.

Conclusion: Noted

N1-021549 : S5-024171, To: CN3, Cc: CN1, SA2, Type: LS IN, Title: Liaison Statement on Multiple Codecs

Discussion : CC to CN1 but do CN1 wish to respond since the questions are IETF protocol related? The intention was that for an IMS session 2 codecs could be used, and the one with highest bandwidth will be the chargeable one. An operator thought this was not acceptable to the users and therefore restrict the session to one codec. If the user does not want another codec a second offer/answer should not be done was thought more appropriate. It is possible to charge on low volume for high capacity codec when such is required for a session with 2 codecs so it would then become a charging policy between reservation and volume.

Conclusion: LS OUT in 1766 by Gabor B.

N1-021550 : S5-024238, To: CN3, SA2, Cc: CN1, CN4, Type: LS IN, Title: LS reply to "Distribution of IMS Charging ID (ICID) from PCF/P-CSCF to GGSN"

Discussion :

Conclusion: Noted

N1-021551: S5-024245, To: CN1, CN4, Cc:, Type: LS IN, Title: LS on inclusion of CCF/ECF addresses on Sh interface

Discussion : SA5 have spotted a need to transfer CCF (Charging Collection Function) / ECF (Event Charging Function) addresses across Sh interface for charging purposes. CN1 is requested to reflect this in the IMS stage 3 TSs under our control. Tdocs 1621 and 1701 is related and no response on that outcome back to SA5 is needed.

Conclusion: Noted

N1-021552: S5-028140, To: CN1, CN4, GERAN, RAN2, RAN3, Cc: SA, Type: LS IN, Title: LS on Subscriber and Equipment Trace Impacts

Discussion : SA5 is actively working on Rel-6 feature Subscriber and Equipment trace. SA5 believe that CN1 will need to define the trace activation and deactivation over SIP between P-CSCF and S-CSCF. CN1 is asked to confirm that we will do the work in this area and identify suitable WID. CN1 would analyse the work amount before drafting a WID for approval to see whether an already existing and more general WID is needed or if just a new CN1 WT in the project plan would be sufficient. Depends on what we shall SIP trace, and if it is already available in the respective node. There is a requirement to start tracing at P-CSCF. Should we trace on P-CSCF and S-CSCF or only S-CSCF since all P-CSCF information is available in S-CSCF? Reporting function in IPsec? CN1 would await progress on the issue until a technical contribution is received from any company on eg. activating something in the S-CSCF. Is it similar to call tracing for SIP (not IP based) or what? Requirements were asked for.

Conclusion: LS OUT in 1767 by Georg M.

N1-021553: T3-020406, To: SA1, SA2, Cc: SA5, SA3, CN1, Type: LS IN, Title: Response to "Liaison Statement on Access to IMS Services using 3GPP release 99 and release 4 UICCs" (S1-020577)

Discussion : Already handled in another incoming LS.

Conclusion: Noted

N1-021554: T3-020409, To: SA1, SA2, SA3, CN1, Cc:, Type: LS IN, Title: Liaison Statement on terminology regarding ISIM/USIM

Discussion : T3 asks the other groups to correct their usage of the term UICC, ISIM and USIM. The respective 3 IMS rapporteurs of 23.218, 24.228 and 24.229 in CN1 was tasked to check out this and eventually bring in CRs.

Conclusion: Noted

N1-021555: TP-020168, To: RAN2, GERAN1, T3, Cc:, Type: LS IN, Title: LS on an error discovered in TS 11.11 and TS 51.011

Discussion : TSG-T would like to delete USIM file RPLMN last used access technology since it seems to be needed only for GSM compact and the definition is incorrect anyway. If this is agreed then the outcome is that CN1 must change 23.122 to move this information storage from USIM to ME memory. It was thought the problem was in 11.11 regarding incompatibility, but no CR was available for this meeting. COMPACT is one part of the EDGE technology family and can not be removed. Some implementation has the errors already. Could one of the codepoints be removed and rely on errorhandling. Or could COMPACT remove reference to the file code? CN1 agreed the proposal in principle but a CR was awaited for CN1#26.

Conclusion: Noted

N1-021736: S3-020408, To: CN1, Cc:, Type: LS IN, Title: LS on Network Authentication Failure in the UE

Discussion : There is a requirement that MAC failure in UE leads to S-CSCF rejecting the registration with 4xx authentication failure. SA3 ask CN1 if this error case is reflected in CN1 specifications. Do we need a CR in CN1? No since it is already covered in 24.228 and 24.229.

Conclusion: Noted

N1-021737: S3-020417, To: CN1, Cc:, Type: LS IN, Title: Same SA to be utilized for both UDP and TCP transport protocols

Discussion : The same Security Association (SA) shall be utilized for both UDP and TCP transport protocols in UE as well as in P-CSCF, for the first hop integrity protection. CN1 are asked to synchronize the stage 3 specifications with this change. A CR will be provided by Nokia for this to CN1#26.

Conclusion: Noted

N1-021738: S3-020441, To: CN1, Cc:, Type: LS IN, Title: Bye and Response attacks in IMS

Discussion : How to block Bye and Response attacks in IMS? This is already covered by CN1 specifications for the IMS domain, but the problem can occur outside.

Conclusion: Noted

N1-021739: S3-020445, To: GERAN, Cc: SA2, CN1, CN3, Type: LS IN, Title: Security aspects of A/Gb evolution

Discussion :

Conclusion: Noted

N1-021753: S2-022005, To: SA4 Cc: CN1, CN3, RAN3, GERAN, Type: LS IN, Title: Liaison statement response on "Maximum and Minimum IP Packet Size" for REL-4 and REL-5"

Discussion : SA2 reply to the question on maximum IP packet size and they say that for all other traffic classes except for streaming it is 1502 octets if PDP type = PPP, otherwise the maximum SDU size is 1500 octets. They have specified no minimum packet size.

Conclusion: Noted

N1-021790: N3-020666, To: SA5, CN1, SA2 Cc:, Type: LS IN, Title: Response Liaison Statement on Multiple Codecs

Discussion : Received during the meeting and more time is needed for CN1 to reply. CN3 replies to a SA5 LS but leaves one question for CN1 and SA2 on how to handle the secondary offer/answer interaction (which would reduce the codecs per media component to one) ? Can it be made outright mandatory (or at least mandatory – operator configurable)? Yes it could, but would it be SIP compliant then? Do we want to limit to just one codec?

Conclusion: Forwarded to CN1#26

N1-021810: S4-020478, To: CN1 CC: SA2, CN3, CN4, RAN2, GERAN2, Type: LS IN, Title: Response LS to "Liaison statement on DTMF"

Discussion :

Conclusion: Forwarded to CN1#26

N1-021811: S4-020482, To: RAN2, RAN3, SA2 CC: CN1, Type: LS IN, Title: Liaison Statement on QoS parameters Maximum bit rate/Guaranteed bit rate

Discussion :

Conclusion: Forwarded to CN1#26

4 Work Plan for TSGN WG1

N1-021516: MCC, Type: REPORT, Title: Draft minutes from CN#16

Discussion :

Conclusion : Noted

N1-021517: MCC, Type: REPORT, Title: Draft minutes from SA#16

Discussion :

Conclusion : Noted

N1-021518 : MCC, Type: REPORT, Title: CN1 specification responsibility list after plenary#16

Discussion : Companies to check the appropriateness of their rapporteurs since some do not participate any longer.

- 09.08 and 49.008 goes from Zdravko to Rouzbeh, and
- 23.972 goes from Nokia to Rouzbeh/Ericsson.

Conclusion : Noted

N1-021519 : MCC, Type: WORKPLAN, Title: Workplan of 21.June for review

Discussion : No time for online review. All companies bring their opinion to the plenary !

Conclusion : Noted

N1-021746 : Chairman, Type: INFO, Title: CN1 IMS open item list

Discussion : The doc will change scope and so not address the plenary any longer, but serve as an internal bookkeeper for CN1 maintained by Andrew Allan. Some new issues have turned up to be included in a revision of 1746 for maintaing Rel-5 IMS specifications in CN1.

Conclusion : Noted

5 Maintenance of Rel-4 and older releases

N1-021597 : 29.202 Lucent, Type: INFO, Title: CR to 29.202 to add reference to new IETF RFC on SCTP checksum

Discussion :

Conclusion : Noted

N1-021612 : 24.007v390 CR#054, Nortel, Type: CR, Title: Correct interpretation of Teardown Indicator

Discussion : In 24.008, section 10.5.6.10, the encoding of the Teardown Indicator IE is defined. The encoding definition indicates that teardown Indicator is set as either '1' or '0'. However, the textual description of Teardown Indicator describes the behaviour and analysis of the IE as based on 'Present' or 'Not Present'. Similar problems were previously identified in 29.060 and were corrected by CR 232r2 in CN4. However, the changes that were made to 29.060 were not carried over into 23.060, 24.007 or 24.008.

The handling should be defined only in 24.008 and pointed to from 24.007 if necessary,- with the intention to remove 'presence'. The primitives should not cover issues on implementation or what is in the message.

Conclusion : Rejected

N1-021613 : 24.007v420 CR#055, Nortel, Type: CR, Title: Correct interpretation of Teardown Indicator

Discussion :

Conclusion : Not available

N1-021614 : 24.007v500 CR#056, Nortel, Type: CR, Title: Correct interpretation of Teardown Indicator

Discussion :

Conclusion : Not available

N1-021615 : 24.008v3c0 CR#645, Nortel, Type: CR, Title: Correct interpretation of Teardown Indicator

Discussion : The new wording was found not to change anything and therefore the proposal is to leave the text as is.

Conclusion : *Rejected*

N1-021616 : 24.008v470 CR#646, Nortel, Type: CR, Title: Correct interpretation of Teardown Indicator

Discussion :

Conclusion : *Not available*

N1-021617 : 24.008v540 CR#647, Nortel, Type: CR, Title: Correct interpretation of Teardown Indicator

Discussion :

Conclusion : *Not available*

N1-021631 : 24.008v3c0 CR#648, Siemens, Type: CR, Title: Removal of CBQ2

Discussion : As the CBQ2 functionality is removed from the GERAN specifications, the note in sec. 4.5.1.5 which repeats the deleted definition in 04.18 sec. 3.3.1.1.1 needs to be deleted.

Conclusion : *Agreed*

N1-021632 : 24.008v470 CR#649, Siemens, Type: CR, Title: Removal of CBQ2

Discussion :

Conclusion : *Agreed*

N1-021633 : 24.008v540 CR#650, Siemens, Type: CR, Title: Removal of CBQ2

Discussion :

Conclusion : *Agreed*

N1-021634 : 23.122v370 CR#049, Siemens, Type: CR, Title: Removal of CBQ2

Discussion : As the CBQ2 functionality is removed from the GERAN specifications, its impacts on the PLMN selection procedure needs to be removed.

The word cell needs to be restored in 4.4.3.1.1 where the first changed sentence is not complete leaving the definition of compact PLMN ambiguous. The mirror CRs has the word 'cell' intact.

Conclusion : *Revised to 1768*

N1-021768 : 23.122v370 CR#049r1, Siemens, Type: CR, Title: Removal of CBQ2

Discussion :

Conclusion : *Agreed*

N1-021635 : 23.122v410 CR#050, Siemens, Type: CR, Title: Removal of CBQ2

Discussion :

Conclusion : *Agreed*

N1-021636 : 23.122v500 CR#051, Siemens, Type: CR, Title: Removal of CBQ2

Discussion :

Conclusion : *Agreed*

N1-021643 : 24.008v3c0 CR#655, ETSI-NEC Technologi, Type: CR, Title: Cell barring after Network authentication rejection from the UE

Discussion : 25.331 newly defines this procedure : "The purpose of this procedure is to release the RRC connection and bar the current cell or cells. The procedure is requested by upper layers when they determine that the network has failed

an authentication check". This procedure can be found in chapter 8.1.4a and is an Access Stratum procedure. As far as this procedure is Access Stratum related, and has just been created during last RAN meeting, 24.008 should give the reference to this 25.331 RAN defined procedure.

The reference text seems incomplete. Cell barring is mentioned in many other chapters. The change to 24.008 based on the service provided by RAN already in 25.331 is not needed on a frozen release. Also 24.008 talks about barring one cell, while RAN bars the cells in the RA.

Conclusion : Revised to 1769

N1-021769 : 24.008v3c0 CR#655r1, ETSI-NEC Technologi, Type: CR , Title: Cell barring after Network authentication rejection from the UE

Discussion : CN1 considered the CR as acceptable in principle but there were several procedural and wording issues to be solved so it was decided to leave it to the next meeting to solve the problem with new CRs. There is clearly a problem in the current text since it only requires the UE to bar only the cell where the authentication failure was received and this does not allow barring all active cells in case of UTRAN. It was understood by CN1 that currently RAN2 specification bars all active cells instead of just the one where the authentication failed. CN1 was not sure whether it would be preferable to bar just one cell or the whole set of active cells.

AP Hannu: inform RAN2 with CC to CN1 about the above discussion.

Conclusion : Rejected

N1-021644 : 24.008v470 CR#656, ETSI-NEC Technologi, Type: CR , Title: Cell barring after Network authentication rejection from the UE

Discussion :

Conclusion : Revised to 1770

N1-021770 : 24.008v470 CR#656r1, ETSI-NEC Technologi, Type: CR , Title: Cell barring after Network authentication rejection from the UE

Discussion :

Conclusion : Rejected

N1-021645 : 24.008v540 CR#657, ETSI-NEC Technologi, Type: CR , Title: Cell barring after Network authentication rejection from the UE

Discussion :

Conclusion : Revised to 1771

N1-021771 : 24.008v540 CR#657r1, ETSI-NEC Technologi, Type: CR , Title: Cell barring after Network authentication rejection from the UE

Discussion :

Conclusion : Rejected

N1-021646 : 24.008v3c0 CR#658, ETSI-NEC Technologi, Type: CR , Title: Ciphering and integrity protection

Discussion : Clarify the points : 4.7.13.3 Service request procedure accepted by the network. The security mode control criteria, necessary for PS service request procedure acceptance is corrected to be : integrity only.

What if it is not integrity protected ? Security mode is resonded after Service Request 'signalling' and should not be asked again in PMM Connected.

Conclusion : Rejected

N1-021647 : 24.008v470 CR#659, ETSI-NEC Technologi, Type: CR , Title: Ciphering and integrity protection

Discussion :

Conclusion :Rejected

N1-021648 : 24.008v540 CR#660, ETSI-NEC Technologi, Type: CR , Title: Ciphering and integrity protection

Discussion :

Conclusion : Rejected

N1-021650 : 24.008v3c0 CR#662, ETSI-NEC Technologi, Type: CR , Title: UMTS to GSM handover

Discussion :

Conclusion : Not available

N1-021651 : 24.008v470 CR#663, ETSI-NEC Technologi, Type: CR , Title: UMTS to GSM handover

Discussion :

Conclusion : Not available

N1-021652 : 24.008v540 CR#664, ETSI-NEC Technologi, Type: CR , Title: UMTS to GSM handover

Discussion :

Conclusion : Not available

N1-021653 : 23.014v310 CR#004r2, ETSI-NEC Technologi, Type: CR , Title: Dual Tone Multi-Frequency signalling : Support in the whole 3GPP system, and editorial modifications.

Discussion : DTMF is declared to be supported in the whole 3GPP system, and not only in the GSM system. Some editorial points are clarified. One error in the scope is corrected.

The DRX has existed wrongly since when? Wrong CR template is used, but it was agreed during the meeting that there are no changes on O&M, other specifications or test specifications because of this change.

Conclusion : Agreed

N1-021654 : 23.014v400 CR#005r1, ETSI-NEC Technologi, Type: CR , Title: Dual Tone Multi-Frequency signalling : Support in the whole 3GPP system, and editorial modifications.

Discussion :

Conclusion : Agreed

N1-021655 : 23.014v500 CR#006, ETSI-NEC Technologi, Type: CR , Title: Dual Tone Multi-Frequency signalling : Support in the whole 3GPP system, and editorial modifications.

Discussion :

Conclusion : Agreed

N1-021669 : 24.008v3c0 CR#665, Siemens, Type: CR , Title: Usage of Service Request type 'data'

Discussion : It is nowhere clearly defined which NAS messages in the PS domain may be sent as initial message in order to establish the PS signaling connection without sending the SERVICE REQUEST. In sec. 4.7.13 it is only stated the a Service Request shall be used for all those NAS messages which "requires security protection". But there is no definition for which messages a security protection in UMTS. There is only a definition for GSM in sec. 4.7.1.2. It is proposed to clarify that all GMM messages may be send directly without a preceding service request procedure.

In 4.1.1.1 there is a list for downlink, but this CR deals with uplink signalling. This CR was regarded as a new requirement. A DEATCH REQUEST was seen most critical. What about already done implementations? If no text exists on this a CR should be made to align the proposal with implementation restrictions. Is it only CN1 that can decide which GMM mesaages can be sent without security protection as initial message to establish the signalling connection.

Conclusion : Agreed

N1-021670 : 24.008v470 CR#666, Siemens, Type: CR , Title: Usage of Service Request type 'data'

Discussion :

Conclusion : Agreed

N1-021671 : 24.008v540 CR#667, Siemens, Type: CR , Title: Usage of Service Request type 'data'

Discussion :

Conclusion : Agreed

N1-021683 : 23.009v3a0 CR#078, Ericsson, Type: CR , Title: Correction to codec handling in Inter-MSC Handover

Discussion :

Conclusion : Forwarded to CNI-CN4 joint session

N1-021684 : 23.009v440 CR#079, Ericsson, Type: CR , Title: Correction to codec handling in Inter-MSC Handover

Discussion :

Conclusion : Forwarded to CNI-CN4 joint session

N1-021691 : 24.008v3c0 CR#671, Ericsson, Type: CR , Title: Correction to service request procedure

Discussion : Correction of the service request procedure when it is used to re-establish RABs for PDP contexts activated without RAB assigned. The 4.7.13 section has been corrected indicating that upon completion of a service request procedure with service type "data", the RABs for the activated PDP contexts are re-established except those having maximum bit rate of 0 kbit/s for both, uplink and downlink. In such a case, the MS should start MS Initiated PDP Context modification or PDP Context deactivation in order to re-activate the PDP context and re-establish the RAB, or deactivate the PDP context respectively. The section 6.1.3.3 has also been modified to reflect changes mentioned in the reason of change of the current CR.

1637 tdoc is dealing with the same issue, and is regarded as a R99 issue based on the SA2 change.

Conclusion : Revised to 1772

N1-021772 : 24.008v3c0 CR#671r1, Ericsson, Type: CR , Title: Correction to service request procedure

Discussion :

Conclusion : Revised to 1841

N1-021841 : 24.008v3c0 CR#671r2, Ericsson, Type: CR , Title: Correction to service request procedure

Discussion : The network 'shall reply',- not only 'replies', when receiving a Modification request.

Conclusion : Revised to 1854

N1-021854 : 24.008v3c0 CR#671r3, Ericsson, Type: CR , Title: Correction to service request procedure

Discussion :

Conclusion : Agreed

N1-021692 : 24.008v470 CR#672, Ericsson, Type: CR , Title: Correction to service request procedure

Discussion :

Conclusion : Revised to 1773

N1-021773 : 24.008v470 CR#672r1, Ericsson, Type: CR , Title: Correction to service request procedure

Discussion :

Conclusion : Revised to 1842

N1-021842 : 24.008v470 CR#672r2, Ericsson, Type: CR , Title: Correction to service request procedure

Discussion :

Conclusion : Revised to 1855

N1-021855 : 24.008v470 CR#672r3, Ericsson, Type: CR , Title: Correction to service request procedure

Discussion :

Conclusion : Agreed

N1-021693 : 24.008v540 CR#673, Ericsson, Type: CR , Title: Correction to service request procedure

Discussion :

Conclusion : Revised to 1774

N1-021774 : 24.008v540 CR#673r1, Ericsson, Type: CR , Title: Correction to service request procedure

Discussion :

Conclusion : Revised to 1843

N1-021843 : 24.008v540 CR#673r2, Ericsson, Type: CR , Title: Correction to service request procedure

Discussion :

Conclusion : Revised to 1856

N1-021856 : 24.008v540 CR#673r3, Ericsson, Type: CR , Title: Correction to service request procedure

Discussion :

Conclusion : Agreed

N1-021694 : Ericsson, Type: DISCUSSION , Title: Clarification of the meaning of 'appropriate channel'

Discussion : Most parts of CC protocol in 24.008 are GSM heritages and some extensional functions have been applied especially for UMTS as requirements. We understand that it was a reasonable approach since most of GSM CC functionality should be applicable for UMTS as well. However the problem is that there is a clear requirement in 24.008 that a CC protocol function needs to know if an appropriate channel for certain call is available or not. Furthermore, we believe that even for the GSM case, the mobile station can rely on the given channel by the NW. In order words, we do not see the need of the appropriate channel inspection in CC in GSM as well. The related CR is in tdoc 1727.

It was seen possible to have an internal connection between NAS and user plane to have information of the radio bearer establishment and any possible errors. Error case handling to decide an 'appropriate channele' for UMTS, as eg. alerting or wrong allocation of codecs was proposed and agreed to be specified, instead of deleting the supervision of an 'appropriate channel' in UMTS.

Conclusion : Noted

N1-021714 : 24.008v3c0 CR#676, Orange France, Type: CR , Title: Routing Area Update at network change

Discussion : Currently, in TS24.008 the behaviour of an MS attached to the packet domain is not clear when entering a new PLMN. CR 275rev2 on TS23.060 (included in SP-010706 – SA#14) clarified that Routing Area Update procedure shall be performed in such a case (and not Attach procedure).

Conclusion : Revised to 1761

N1-021761 : 24.008v3c0 CR#676r1, Orange France, Type: CR , Title: Routing Area Update at network change

Discussion : A missing state is introduced. Which cases of entering a new PLMN does the new text intend to cover? What is the effect that MSs uses different procedures if this is not accepted as an essential correction? Dropping calls at network change. It was agreed that the mobile must perform an RAU when entering a new PLMN while attached for GPRS.

Conclusion : Agreed

N1-021715 : 23.122v370 CR#053, Orange France, Type: CR , Title: Routing Area Update at network change

Discussion : It is indicated that Routing Area Update procedure is triggered when an MS enters a new PLMN.

Conclusion : *Agreed*

N1-021716 : 24.008v470 CR#677, Orange France, Type: CR , Title: Routing Area Update at network change

Discussion : Category to be changed to A.

Conclusion : *Revised to 1762*

N1-021762 : 24.008v470 CR#677r1, Orange France, Type: CR , Title: Routing Area Update at network change

Discussion : Category to be changed to A.

Conclusion : *Agreed*

N1-021717 : 23.122v410 CR#054, Orange France, Type: CR , Title: Routing Area Update at network change

Discussion : Category to be changed to A.

Conclusion : *Agreed*

N1-021718 : 24.008v540 CR#678, Orange France, Type: CR , Title: Routing Area Update at network change

Discussion : Category to be changed to A.

Conclusion : *Revised to 1763*

N1-021763 : 24.008v540 CR#678r1, Orange France, Type: CR , Title: Routing Area Update at network change

Discussion : Category to be changed to A.

Conclusion : *Agreed*

N1-021719 : 23.122v500 CR#055, Orange France, Type: CR , Title: Routing Area Update at network change

Discussion : Category to be changed to A.

Conclusion : *Agreed*

N1-021727 : 24.008v540 CR#682, Ericsson, Type: CR , Title: Clarification of the meaning of 'appropriate channel'

Discussion : The issue is too big to solve during the meeting, but will be handled through emailing after the meeting. See the tdoc 1694 for the outcome to specify the 'error cases'.

Conclusion : *Rejected*

N1-021728 : Siemens, Type: DISCUSSION , Title: Change of network mode of operation within the same RA

Discussion : Up to now for the case of a change of the network mode from I->II/III and vice versa in the same RA the MS behaviour is unspecified. In 23.060 it is strongly recommended to configure the network mode in a cell homogeneous to ensure "proper operation". This contribution does not have the intention to change this recommendation, nevertheless there are scenarios where the network mode must be changed in a RA, e.g. due to maintenance reasons. For the MS behaviour it does not make any difference due to what reason the change is made. The following analysis and proposals are applicable irrespective whether the mode changes within the same cell or when re-selecting a new cell within the same RA. Related CR in tdoc 1729.

What scenarios would require this network change in the same RA, making this a serious and frequent error even for Rel-5 only? Maintenance only and therefore not a justification to make a CR on frozen releases R99 and rel-4. Put this issue to the network operation and maintenance instead of the MS.

Conclusion : *Noted.*

N1-021729 : 24.008v540 CR#683, Siemens, Type: CR , Title: Change of network mode of operation within the same RA

Discussion : Would a LS to SA5 be beneficial ? Probably it would come out as an implementation issue. The MS doing nothing is also a solution, but no statements can be agreed.

Conclusion : Rejected

N1-021806 : 24.007v500 CR#057 Siemens Type: CR, Title: Clarification of the CN release indicators

Discussion : With the LS on "Terminal determination of support of EGPRS in the network" (N1-021526)TSG CN1 was requested by TSG GERAN to clarify the definitions of MSCR (MSC Release) and SGSNR (SGSN Release) in the core network specifications.

Conclusion : Revised to 1836

N1-021836 : 24.007v500 CR#057r1 Siemens Type: CR, Title: Clarification of the CN release indicators

Discussion :

Conclusion : Agreed

N1-021807 : 44.018v500 Siemens Type: INFO, Title: Clarification of the CN release indicators

Discussion :

Conclusion : Revised to 1837

N1-021837 : 44.018v500 Siemens Type: INFO, Title: Clarification of the CN release indicators

Discussion :

Conclusion : Noted

N1-021808 : 44.060v511 Siemens Type: INFO, Title: Clarification of the CN release indicators

Discussion :

Conclusion : Revised to 1838

N1-021838 : 44.060v511 Siemens Type: INFO, Title: Clarification of the CN release indicators

Discussion :

Conclusion : Noted

6 Joint sessions

6.1 Joint session with CN3

Tuesday 30/7 starting at 18:00:

N1-021556 : Ericsson, Type: DISCUSSION, Title: Support of non-IMS forking.

Discussion : Same document as N3-020655. This discussion paper is based on the stage 2 requirements as specified in (1). It is accompanied by CR's proposing text for handling of forking related to the UE (CR to 27.060) and to the Go interface (CR's to 29.207 and 29.208). In addition, there will be corresponding CR's proposing changes to 24.229.

SA2 has discussed extensively forking and now an approved stage 2 exists on the issue. This discussion paper was discussed in this CN3 meeting focusing on the Go interface. Therefore CN3 would like the CN1 view in this joint meeting for the UE impact (24.229). Forking may be performed by SIP proxies outside IMS where the IMS network is either not aware of this nor can control it. Thus, the 3GPP network and UE's must be able to handle multiple responses caused by a forked request when interworking with external networks. In the proposed solution, the UE and the PCF/P-CSCF are aware of the forked responses, while the GGSN, being mainly application independent, is forking unaware.

It was mentioned that this issue was an interworking issue now allocated for Rel-6. The forking issue require however a means to avoid a problem and could have priority for Rel-5 as eg error handling. In 24.229 it now only states that UEs may support forking responses, since the P- or S-CSCF does not stop multipel responses requiring maybe different QoS. Which one of the 183 responses should survive ? The resources requested by the UE shall be the "logical OR" of the different responses according to stage 2. The PDP contexts not needed after handling all the responses need to be deactivated after the 'logical OR', and the first PDP context allocated may need a modification. Forking should not be used for call centers! The responses will however consume air resources. It is proposed to allocate at most the resource that was requested in the INVITE to the first response. The forking proxy will cancel the other responses not OK'ed from the UE, or in some cases when more than one progresses to a session the UE needs to send the BYE for 'the second one'.

Another proposal was to have B2BUE agent in the S-CSCF to choose only the first response to pass on to the UE, but regarded as bad solution by some. If the UE do not want multipel responses it could Cancel the Invite when forking is activated.

CN1 and CN3 actions needed are on how to handle the multipel responses and the authorization respectively.

The formal agreements are as follows:

- The problem analysis in the document was agreed to be correct
- Even though Rel-5 IMS does not fork, a network outside IMS may do so leading to multiple responses to single INVITE from IMS UE
- From UE perspective the document is based on assumption that P-CSCF / S-CSCF is unable to remove any multiple provisional responses to a request from UE. This is because the IMS network is unable to predict which one of the provisional responses leads to call being answered (later).
- Proposal that the UE looks at all provisional responses related with the session being set up and reserves the QoS resources according to that.
- Depending on the QoS requirement this can lead to multiple QoS requirements forcing the creation of several PDP contexts out of which the unnecessary ones (the unanswered ones) will then need to be deactivated once the final response to the session setup is received.
- All provisional responses must be transferred across the radio interface causing usage of radio resource to messages which will not be needed later on.
- As a special case when more than one remote parties answer virtually simultaneously the initiating UE may receive multiple 200 OKs thus having to choose which session to keep and which one(s) to BYE.
- Alternative solution where S-CSCF would reject all subsequent provisional responses from outside IMS area was proposed by some delegations. This alternative would have the problem that S-CSCF must proceed with only the first provisional response which does not allow as good session establishment success rate as this proposal. This alternative would also not be according to SA2 definition.
- SA2 CR S2-021439 requires the following tasks to be carried out
- CN1:
 - UE handling of multiple provisional responses
 - UE handling of collision of multiple final responses (collision case)
 - UE handling of GPRS interaction
- CN3:
 - Authorisation procedures over Go interface
 - Update of the authorisation information when the final answer is available

Conclusion : Noted

6.2 Joint session with CN4

Wednesday 31/7 starting at 09:00:

N1-021532 : R3-021795, To: CN4, SA2, Cc: CN1, SA1, Type: LS IN, Title: LS on Shared Networks

Discussion : RAN3 reply to CN4 on shared networks in connected mode. Forwarded to CN1 – CN4 joint session. No additional comments from the joint meeting except that CN4 deals with the LS and CN1 takes it as information.

Conclusion: Noted

N1-021535 : R3-021816, To: SA2, CN4, SA5, Cc:CN1, SA1, Type: LS IN, Title: LS on Shared Networks – Outcome of RAN3 #30

Discussion : RAN3 have agreed the following working assumptions on shared networks in connected mode:

- The Shared Network solution will be based on the SNA concept.
- The solution will allow LAs to be in several SNAs (also known as Overlapping SNAs).
- The solution will use only PLMN-specific SNAs (Universal SNAs are for further study).
- The solution will make use of Information Exchange procedures over Iu (similar to those defined for Rel-4 over Iur) to allow the MSC/VLR to provide the RNC with the SNA definitions for the locally known LAs (either from cells controlled by the RNC or from directly neighbouring cells).

The recipients of the LS are requested to review the attached TR and see if any CRs in their TSs are needed as a consequence. Forwarded to CN1 – CN4 joint session. No online review can be done as usual, and no comments were made so CN4 handles the LS and the related docs in N4-020855, 856 and 857, while CN1 takes the LS as information and deals with the related docs in 1685 which has been revised to N1-021789.

Conclusion: Noted

N1-021542 : S2-022054, To: RAN3, CN4, CN1, GERAN2, Cc: SA1, Type: LS IN, Title: LS on Shared Networks

Discussion : SA2 Answer to RAN3 LS that the Anchor-MSC will provide the Subscriber Access Information to the target RNC in CS domain handover. The other groups are asked to ensure that their specifications (eg 29.002, 23.009, 48.008, 49.008, etc) cover all cases including GSM to UMTS inter-MSC handover when the UMTS MSC is connected to a shared UTRAN. Forwarded to CN1 – CN4 joint session. Related CRs to this meeting was identified for CN1 and CN4 as N1-021789 and N4-020855, 856 and 857 respectively. No additional comments from the joint meeting except that CN4 deals with the LS and CN1 takes it as information.

Conclusion: Noted

N1-021610 : 23.009v440 CR#072r2, Nokia, Type: CR, Title: Correction for Inter-MSC relocation procedure due to multiple codecs

Discussion : In case of inter MSC relocation/ intersystem handover, 3G_MSC-A/MSC-A shall provide 3G_MSC-B with a list of supported codecs (Available Codecs List). The first entry of the list is the “preferred” codec by the operator (this gives to the operator the flexibility to use preferred codecs whenever possible). 3G_MSC-A shall configure the RANAP RAB parameters according to the “preferred” codec in MSC-A. The codec selected by 3G_MSC-B shall further be indicated back to 3G_MSC-A in MAP-PREPARE-HANDOVER response and MAP-PROCESS-ACCESS-SIGNALING request e.g. for possible subsequent relocation and charging purposes.

For release 4 it was argued that the problem can not be essential since it is not a serious and frequent misoperation. The contrary was argued since the codec options could not operate without a correction. The TFO would drop out if used on the E-interface, otherwise no operational error was identified. Alternative solution to this was given from Ericsson with less impact than the Nokia solution. And Siemens mentioned a solution with application context as well. A Rel-5 MSC-B also need a solution to cope with GSM to UMTS handover. For Rel-5 the grade of seriousness to make an essential correction is not the same as for making a change to Rel-4, and the solution could be different to the one chosen for Rel-4. Ericsson could accept a solution for Rel-5, if the proposal for R99/Rel-4 could be agreed on.

Conclusion : Rejected

N1-021611 : 23.009v510 CR#073r2, Nokia, Type: CR, Title: Correction for Inter-MSC relocation procedure due to multiple codecs

Discussion : Not presented.

Conclusion : Revised to 1820

N1-021820 : 23.009v510 CR#073r3, Nokia, Type: CR, Title: Correction for Inter-MSC relocation procedure due to multiple codecs

Discussion :

Conclusion : Revised to 1857

N1-021857 : 23.009v510 CR#073r4, Nokia, Type: CR, Title: Correction for Inter-MSC relocation procedure due to multiple codecs

Discussion :

Conclusion : Revised to 1858

N1-021858 : 23.009v510 CR#073r5, Nokia, Type: CR , Title: Correction for Inter-MS-C relocation procedure due to multiple codecs

Discussion : MSC-A constructs RAB parameters based on the default codec.

Conclusion : Agreed

N1-021683 : 23.009v3a0 CR#078, Ericsson, Type: CR , Title: Correction to codec handling in Inter-MS-C Handover

Discussion : Equals N4-020944. The implementation of plenary CR NP-000444 was not complete, instead of changing all references to the current selected codec to indicate the default codec as agreed at the meeting and described on the CR cover page, one instance was omitted. Thus leaving a problem whereby the current selected codec cannot be known to be supported by the MSC-B.

It was not seen as part of implementation to take what is on the cover page. However the need of a R99 CR in this area was deemed necessary for GSM to UMTS handover. At the time of the mentioned CR it would have been an obvious correction since Rel-4 was not yet designed. In R99 it was argued that the wording selected codec and default codec would be synonymous and therefore a not needed CR. On the contrary it was seen needed to cope with later releases.

Conclusion : Agreed

N1-021684 : 23.009v440 CR#079, Ericsson, Type: CR , Title: Correction to codec handling in Inter-MS-C Handover

Discussion : Equals N4-020945.

Conclusion : Agreed

N1-021732 : Nokia, Type: DISCUSSION , Title: Codec Handling in inter MS-C handover/relocation

Discussion : In Rel-4 more than one codec is supported. In case of inter MS-C handover, the MSC-B is responsible of providing transcoding resources. To be able to insert transcoder properly, MSC-B needs to know what is the currently used codec. If transcoding resources for the currently used codec are not available in MSC-B, it needs to know what other codecs are allowed for the call. The allowed codecs have been negotiated during the call establishment. If MSC-B has to change the codec, it has to generate the associated RAB parameters too and send them to target RNC in RANAP Relocation Request. In addition, RAB configuration change has to be allowed in SRNC relocation and the new codec has to be indicated to the UE by target RNC.

In R99 there is only one codec but later releases has optional codec support. For Rel-4 it was thought that a fallback to default would occur. The other view is that whatever are supported in the Rel-4 protocol must be supported. The question is therefore if the issue is an essential correction to a frozen release 4, or if it is a new requirement.

From the chairmans online editing the following agreements were made:

- Depending on interpretation, the current text in R99 23.009 does not necessarily work since it requires keeping the current selected codec instead of choosing the UMTS AMR codec after GSM – UMTS HO. (But UMTS AMR being the only codec it must be the currently selected at all times)
- Depending on interpretation, the current 23.009 and MAP do not allow to keep after HO or relocation any of the optional UMTS codecs which are part of Rel-4 functionality. Therefore a different change is needed for Rel-4 and later versions (Ericsson objected this alternative since the call can be kept in HO / relocation by means of falling back to default UMTS codec).
- Proposal to enhance Nokia CR to avoid introducing new MAP application context was discussed but not agreed.

Conclusion : Noted

N1-021748 : 23.009v3a0 CR#078, Ericsson, Type: CR , Title: Correction to codec handling in Inter-MS-C Handover

Discussion : Equals N4-020944. Replaced by 1683. Not available.

Conclusion : Withdrawn

N1-021749 : 23.009v440 CR#079, Ericsson, Type: CR , Title: Correction to codec handling in Inter-MS Handover

Discussion : Equals N4-020945. Replaced by 1684. Not available.

Conclusion : Withdrawn

N1-021750 : 29.002 Rel-4 Nokia Type: CR, Title: Available codecs list and selected codec indication

Discussion : Equals N4-020974.

Conclusion : Noted

N1-021751 : 29.002 Rel-5 Nokia Type: CR, Title: Available codecs list and selected codec indication

Discussion : Equals N4-020947.

Conclusion : Noted

N1-021752 : Nortel Type: DISCUSSION, Title: Access Rights Information for Network Sharing on the E-Interface

Discussion : Equals N4-020967.

Conclusion : Noted

N1-021758 : Georg M. Type: LS OUT, **To:** CN4, **Cc:** Title: LS response on Sh interface signalling

Discussion : Only downloading from HSS was of interest since the text on uploading was seen as clear. CN4 has treated CRs in this area for this meeting and the information was conveyed verbally in principle, confirming CN1s understanding which data can be downloaded by AS from HSS. With this confirmation from CN4 no reply is needed.

Conclusion : Agreed

7 Release 5

7.1 Non-IMS Rel-5 corrections

N1-021637 : 24.008v540 CR#651, Siemens, Type: CR, Title: Usage of the Service Request procedure

Discussion : With the 23.060 CR 388 r1 (SA2-021894) it is clarified, that the MS shall not start a second Service Request with service type set to data if a Service Request with service type data was accepted previously unless the PMM-IDLE state is entered again. With the 23.060 CR 373 r2 (SA2-021999) the preservation and re-establishment of RAB for PDP contexts PDP contexts using streaming or conversational traffic class is clarified. The re-established of the RAB for those contexts will be triggered by an MS initiated PDP context modification.

The SA2 CRs are to be sent to SA#17 in September, and the linking to those CRs should have been stated as linked on the cover page. The 2 SA2 issues are taken into one CR here and one of them on second service request is not from R99. Proposal to use the Ericsson CR in 1691 as the starting point on the issue in the handling of 0 kb/s QoS service request and align with eg. the points on deactivation from 1637, and to make this a R99 correction.

What happens with the RAB establishment at modification request if they are queued by the RNC? Is service request needed?

This CR can only be accepted in TSGN on the condition that the corresponding CRs from SA2 are approved in TSG SA #17.

Conclusion : Revised to 1775

N1-021775 : 24.008v540 CR#651r1, Siemens, Type: CR, Title: Usage of the Service Request procedure

Discussion : The 0 kb/s QoS issue is removed.

Conclusion : Agreed

N1-021638 : 24.008v540 CR#652, Siemens, Type: CR, Title: MS behavior in case of change of network mode of operation

Discussion : In case of a GSM to UMTS inter-system change it is defined for the change from GSM II/III->UMTS II that a Normal Location Update shall be performed. This LU is proposed not needed, if the MS doesn't enter a new LA.

What happens if the MS still sends it ? Should the test case be written or modified needs to be checked if this CR is agreed. This work on 51.010 will be done by Siemens. Is this optimization important enough?

Conclusion : Agreed

N1-021639 : 24.008v540 CR#653, Siemens, Type: CR, Title: MS behavior in case of T3312 expiry

Discussion : It is proposed to distinguish between the case where T3312 was started in network mode I and II/III. For the case of T3212 expiry during an ongoing CS connection it is clarified, that the event should be treated analogous to the out of coverage case once the connecting is release.

What is the benefit of doing this? To clear ambiguities and get rid of unnecessary network load. But the change is located to b) where periodic location update is not needed. Just deleting the periodic LU when changing network mode in sama RA is proposed in a possible revision on this CR that needs new WI and update of cover page.

Conclusion : Revised to 1776

N1-021776 : 24.008v540 CR#653r1, Siemens, Type: CR, Title: MS behavior in case of T3312 expiry

Discussion :**Conclusion : Agreed**

N1-021640 : 24.008v540 CR#561r3, Siemens, Type: CR, Title: MM behaviour in case of a combined attach reject for the PS service

Discussion : In order to avoid misinterpretations it is proposed to distinguish between the case the MS is not already IMSI attached (typical for a MS with a 'auto attach for the PS service' option enabled) and the case where the PS service is activated after the MS is already IMSI attached for the CS service. For the first case the IMSI attach shall be performed according the conditions described in the MM section. For the second case no IMSI attach is needed and the MS shall only perform a LU if necessary.

It was agreed to use TEI5 and delete GPRS as WI, and that the core network is not impacted.

Conclusion : Agreed

N1-021641 : 24.008v540 CR#654, Siemens, Type: CR, Title: Ambiguous MM behavior in case of a failed combined Attach or RAU

Discussion : If a combined RAU fails and the attach or RAU attempt counter is greater or equal to 5 it is ambiguous whether the MM specific procedures should be activated and the MS should behave as if the network mode is II/III or not. With a CR on 51.010(GP-021364). both options are allowed in the test specification. But as these two alternative lead to different MS behaviour which impacts the reach ability for MT CS services a clear definition should be achieved. It is proposed to define, that the MS shall re-activate the MM specific procedure and act as in network mode II/III once the attach or RAU attempt counter is greater or equal to 5.

Why is the CR affecting the network? It is not. The pageability was discussed. But for implementation it is only MS impact. Emergency call can not be done in the state MM location update pending.

Conclusion : Revised to 1777

N1-021777 : 24.008v540 CR#654r1, Siemens, Type: CR, Title: Ambiguous MM behavior in case of a failed combined Attach or RAU

Discussion :**Conclusion : Agreed**

N1-021642 : 23.122v500 CR#052, Siemens, Type: CR, Title: Applicability of the lists of "forbidden LAs"

Discussion : With the 23.122 CR 026r1 the term " lists "forbidden LAs" " was changed by explicitly listing both the #12 and the #13 list. Unfortunately there were two mistakes made, where only the list of "forbidden LAs for regional provision of service" is stated, whereas the list of "forbidden LAs for roaming" is missing.

The tables in clause 5 was regarded not normative but more detailed than the text in some cases. The tables need to be updated with respect to note 6.

Conclusion : Revised to 1809

N1-021809 : 23.122v500 CR#052r1, Siemens, Type: CR, Title: Applicability of the lists of "forbidden LAs"

Discussion :

Conclusion : Agreed

N1-021649 : 24.008v540 CR#661, ETSI- NEC Technologi, Type: CR, Title: T3317 start timing

Discussion : During PS Service request procedure initiation, T3317 timer is started after the service request message has been sent. There's a question about when this timer is started. Is it : a) after the message has been given to the lower layers, or b) after the message has been given to the lower layers and sent to the network by the lower layers. In R99, both possibilities are considered as correct. a) solution is easy but not precise, and b) solution is precise but no easy. a) solution, due to the vagaries of radio, will make T3317 timer expire too soon.

Why bother with marginal variation on timing since all timers are defined the same way and no supervision is done from the other side. If the lower layers fail to set up signalling connection for SERVICE REQUEST then T3317 is not started at all.

Conclusion : Rejected

N1-021685 : 23.009v510 CR#080, Ericsson, Type: CR, Title: Support for Shared Network Area

Discussion : Revised before presentation.

Conclusion : Revised to 1789

N1-021789 : 23.009v510 CR#080r1, Ericsson, Type: CR, Title: Support for Shared Network Area

Discussion : RAN#3 has agreed a solution for the support of Shared Networks in connected mode in Release 5. See TR R3:012 available in LS N1-021535. The agreed solution is based on the concept of SNA, which is basically a collection of Location Areas. A set of allowed SNA's is associated to each IMSI serie. The set of allowed SNA's, the Shared Network Area (SNA) information, is signalled to the Radio Network when a call is setup, so that the Radio Network can decide to which Location Area the subscriber may be handed over at some later point. SNA information resides in the CN node. It is transferred to the radio access network via Iu interface where it is used for selection of the target cell for handover. During the inter-MSC handover, the SNA information is sent from the anchor to the non anchor and passed to the radio access network by the non anchor. For emergency calls no SNA information applies. This CR proposes to specify handling of the SNA information with respect to the handover/relocation.

Conclusion : Agreed

N1-021686 : 24.008v540 CR#684, Ericsson, Type: CR, Title: GTT (CTM) release independence

Discussion : TSGS#16 agreed that GTT should be Release Independent. CN WG1 was asked by the SA plenary to propose introducing release independency for GTT for Release 1997 and onwards to allow implementation in earlier release networks.

The note was seen as not sufficient and that a separate TS could be preferable or have CRs to each release, eg. R97 CR. But for now it was proposed to have this CR as minimum until a better description is found. The intention is to allow a network to 'understand' it when received from the MS,- meaning ignoring the codepoint. Should the network stop it in BSC on 08.18 or in MSC ? Proposal to do it for UE only with CRs from R97 onwards. Another proposal is to do nothing because earlier networks would not have problem with MSs supporting GTT. Making R97 etc. CRs were agreed.

Conclusion : Rejected

N1-021687 : 43.068v501 CR#007, EPRT, Siemens, Nortel, Sagem, Kapsch, Type: CR, Title: ASCI VGCS call termination by dispatchers using DTMF

Discussion : In the earlier Releases of stage 1 and stage 2 of 42.068 and 43.068 (also 02.68 and 03.68) the release of VGCS call by dispatchers has been required. However, due to the fact that no technical solution was found, this issue has not been specified. This CR should complete this open issue.

Conclusion : Agreed

N1-021688 : 43.069v501 CR#006, EPRT, Siemens, Nortel, Sagem, Kapsch, Type: CR, Title: ASCI VBS call termination by dispatchers using DTMF

Discussion :

Conclusion : Agreed

N1-021689 : Siemens, Type: DISCUSSION, Title: Signalling concept for HSCSD services in GERAN Iu-mode

Discussion : The intention of this contribution is to propose a concept for the signalling for HSCSD services in GERAN Iu-mode. The concept is related to the "Proposal for CS data services over GERAN Iu mode" which gives a detailed account of the user plane issues (N3-020xxx). For an overview over the data services to be supported refer to TS 22.002 [1] and N3-020xxx.

No objections were raised. No CRs will be agreed for this meeting, but detailed CRs can be started based on this tdoc.

Conclusion : Noted

N1-021690 : 23.034v500 CR#007, Siemens, Type: CR, Title: Introduction of GERAN Iu-mode

Discussion :

Conclusion : Not available

N1-021695 : 24.008v540 CR#674, Ericsson, Type: CR, Title: SSD parameter handling for future proof

Discussion : It has been specified that in downlink direction, the SSD bits (4 to 1 of octet 14) are spare and shall be coded all 0, since so the SSD parameter is so far one way parameter (from MS to NW) that no negotiation is needed between MS and SGSN. However, to allow for consistent handling of QoS parameters which are tied to support of certain features, the network should return the codepoint that the network is implementing, as is the case for the rest of the QoS parameters that have been available up to now (R99/R4). This allows for future proof, as the SSD could be tied to certain QoS characteristics that benefit the user and potentially impact customer billing (TS23.107 currently mentions the possibility for the UTRAN, SGSN, GGSN, UE to calculate statistical multiplex gain for use in admission control on relevant interfaces.). Also, there is a need to specifically clarify network behaviour for the case when the SSD parameter was not included in the requested QoS profile (i.e., R99/R4 MS).

No intention in this release to use the codepoint in downlink direction. The statement 'when present' is ambiguous since the SSD bits are there, encoded or not. It was thought that the future flexibility is already there since wording 'reserved' is not used. Postponed for offline discussion.

Conclusion : Rejected

N1-021730 : 24.008v3c0 CR#685, Siemens, Type: CR, Title: Usage of the Service Request procedure

Discussion :

Conclusion : Rejected

N1-021731 : 24.008v470 CR#686, Siemens, Type: CR, Title: Usage of the Service Request procedure

Discussion :

Conclusion : Rejected

N1-021741 : 24.008v540 CR#687, Siemens, Type: CR, Title: Precedence of different RAU

Discussion : There are two conflicting requirements at intersystem change from GSM to UMTS if the READY timer is not running and the GPRS service has been suspended. The "selective RAU" feature requires that no RAU is sent (section 4.7.1.7. paragraph b) but it is also required that the GPRS service is resumed (section 4.7.1.7. paragraph c).

The requirement that the traffic has to be resumed (see also 23.060 section 16.2.1.1.) precedes the selective RAU which has to be reflected in the section 4.7.1.7.

Was intended for RELEASE 6, and the coverage was agreed to be changed to Rel-5 online.

Conclusion : Agreed

N1-021743 : 24.008v3c0 CR#688, Siemens, Type: CR, Title: Default value for CN Common GSM-MAP NAS system information

Discussion :

Conclusion : Not treated due to time

N1-021744 : 24.008v470 CR#689, Siemens, Type: CR, Title: Default value for CN Common GSM-MAP NAS system information

Discussion :

Conclusion : Not treated due to time

N1-021745 : 24.008v540 CR#690, Siemens, Type: CR, Title: Default value for CN Common GSM-MAP NAS system information

Discussion :

Conclusion : Not treated due to time

N1-021747 : 24.008v540 CR#643r2, GERAN, Type: CR, Title: GERAN Iu Mode Capability

Discussion : This CR is split out from LS N1-021525.

Conclusion : Agreed

N1-021844 : 04.08v6f0 CR# A1121, Ericsson, Type: CR, Title: Support of GTT (CTM)

Discussion :

Conclusion : Revised to 1861

N1-021861 : 04.08v6f0 CR# A1121r1, Ericsson, Type: CR, Title: Support of GTT (CTM)

Discussion : Will be agreed on the condition that no objections are emailed to the chairman by the 8th of August 2002 18:00 hours French time.

Conclusion : E-Mail APPROVAL UNTIL 8/8 18:00. Agreed in email approval.

N1-021845 : 04.08v7e0 CR# A1123, Ericsson, Type: CR, Title: Support of GTT (CTM)

Discussion : Will be agreed on the condition that no objections are emailed to the chairman by the 8th of August 2002 18:00 hours French time.

Conclusion : E-Mail APPROVAL UNTIL 8/8 18:00. Agreed in email approval.

N1-021846 : 24.008v3c0 CR# 693, Ericsson, Type: CR, Title: Support of GTT (CTM)

Discussion :

Conclusion : Revised to 1862

N1-021862 : 24.008v3c0 CR# 693r1, Ericsson, Type: CR, Title: Support of GTT (CTM)

Discussion : Will be agreed on the condition that no objections are emailed to the chairman by the 8th of August 2002 18:00 hours French time.

Conclusion : E-Mail APPROVAL UNTIL 8/8 18:00. Agreed in email approval.

N1-021847 : 24.008v470 CR# 694, Ericsson, Type: CR, Title: Support of GTT (CTM)

Discussion :

Conclusion : Revised to 1863

N1-021863 : 24.008v470 CR# 694r1, Ericsson, Type: CR, Title: Support of GTT (CTM)

Discussion : Will be agreed on the condition that no objections are emailed to the chairman by the 8th of August 2002 18:00 hours French time.

Conclusion : E-Mail APPROVAL UNTIL 8/8 18:00. Agreed in email approval.

7.2 IMS documents for information

N1-021560: Lucent T., Type: DISCUSSION, Title: Summary of current IETF documents on SIP

Discussion :

Conclusion : Not available

N1-021561 : Lucent T., Type: DISCUSSION, Title: Summary of current IETF documents on SIPPING

Discussion :

Conclusion : Not available

N1-021562 : Lucent T., Type: DISCUSSION, Title: Summary of current IETF documents on MMUSIC

Discussion :

Conclusion : Noted

N1-021665 : Ericsson, Type: INFORMATION, Title: I-D: draft-garcia-sipping-3gpp-p-headers

Discussion :

Conclusion : Noted

N1-021681 : Nokia, Type: INFORMATION, Title: TS 24.228

Discussion :

Conclusion : Not available

7.3 IMS Registration

N1-021563 : 24.229v510 CR#142, Lucent T., Type: CR, Title: Public user identity to use for third party register

Discussion : 23.218 clause 6.3 describes how the S-CSCF may use either the public user identity received in a REGISTER message or one of the implicitly registered public user identities in the To header when sending a third party REGISTER to an AS. 24.229 clause 5.4.1.7 currently states that only the public user identity from the received REGISTER may be used. This inconsistency needs to be resolved.

Why is this needed when there already exists a mechanism for this? It is an alignment. The coverpage needs to be filled in on all points as a general rule, and for this case impact on other specifications are no.

Conclusion : Agreed

N1-021588 : 24.228v510 CR#063, Alcatel, Type: CR, Title: Corection of the dns procedure

Discussion : Correction and clarification of the procedures.

What is local policy in the UE in table 5.2.2-3 b? On numbering or use of UDP or TCP,- but that should be implementation option or local preferences. NAPTR is not necessary in 3GPP network and proposed deleted. The domain name in table 6.2-2 was discussed and obviously a revision is needed.

Conclusion : Revised to 1778

N1-021778 : 24.228v510 CR#063r1, Alcatel, Type: CR, Title: Coreection of the dns procedure

Discussion :

Conclusion : Agreed

N1-021603 : 24.228v510 CR#067, Lucent T., Type: CR, Title: Remaining REGISTER and SUBSCRIBE flow updates

Discussion : Will be agreed on the condition that no objections are emailed to the chairman by the 8th of August 2002 18:00 hours French time.

Conclusion : E-Mail APPROVAL UNTIL 8/8 18:00. Rejected in email approval.

N1-021656 : Siemens, Type: DISCUSSION, Title: Discussion Paper on Redirection of Offline-Subscriptions

Discussion : This paper discusses the problem when a User-A subscribes to (e.g.) the presence information of currently-unregistered User-B. For this purpose a so-called "default"-S-CSCF is selected for the unregistered user. After User-B registers, the subscription-dialogs need to be re-initiated in order to be directed over the newly selected S-CSCF. This contribution furthermore shows that there is currently a need for further clarification whether I-CSCF upon registration and a currently selected default-S-CSCF needs to select a new I-CSCF. Finally this contribution discusses the general case of releasing ongoing subscriptions for a user who gets de-registered / walks out of radio coverage.

It was proposed to write a Liaison to SA2 and CN4 to find out whether an I-CSCF shall select a new S-CSCF during initial registration, although a "default" S-CSCF has been already selected for that user,- but after looking for other solution also and insert the agreed analysis and ask for guidance on the solutions seen into that LS. This is not only a SIP problem and architectural decision from SA2 is needed.

Conclusion : Noted and LS out in 1779 by Georg M.

N1-021660 : 24.229v510 CR#168, Siemens, Type: CR, Title: Terminate SUBSCRIBE dialogs by CSCFs

Discussion : Adding network initiated termination of subscribe dialogs.

Comments has been received offline and will be incorporated in an eventual revision. The termination of subscribe at loss of coverage or at end of money for pre-paid was argued needed to take away the route. But seen as not appropriate solution by all. The resources are released when in a dialogue but not for Registration,- so which case is closest when loosing coverage. Anyway the subscriptions will expire.

Conclusion : Rejected

N1-021661 : 24.229v510 CR#169, Siemens, Type: CR, Title: Redirection of SUBSCRIBE dialogs after users registration

Discussion : Adding the handling of the value "termianted" in the Subscription-State header in a NOTIFY message to UE, S-CSCF and P-CSCF. But only deal with the first change for this meeting.

Why not rely on the mechanism with ICMP. State the reason for change, not refer to another doc.

Conclusion : Revised to 1780.

N1-021780 : 24.229v510 CR#169r1, Siemens, Type: CR, Title: Redirection of SUBSCRIBE dialogs after users registration

Discussion : Only the first change from previous version is kept.

Conclusion : Agreed

N1-021662 : 24.229v510 CR#170, Ericsson, Type: CR, Title: I-CSCF (THIG) handling of P-Service-Route and Path

Discussion : Mistaken usage of the Path and P-Service-Route headers in I-CSCF (THIG).

This was seen as not correct use of the est agreement on P-Service-Route header.

Conclusion : Rejected

N1-021664 : 24.228v510 CR#068, Ericsson, Type: CR, Title: Addition of P-Visited-Network-ID to 24.228

Discussion : The header Roaming-Info is replaced by P-Visited-Network-ID.

What is the syntax in the header from the draft? Quoted stream. This CR do not affect UE.

Conclusion : Agreed

N1-021672 : 24.229v510 CR#174, Ericsson, Type: CR, Title: Clarification of IMS signalling flag

Discussion : 23.228 indicates in subclause 5.10.3.0 that the GPRS subsystem may delete the PDP context for SIP signalling (due to e.g. RA update or overload situations) while possible PDP contexts for media still are active. Due to such situations, the PDP context for SIP signalling may need to be re-established. Such re-establishment of the SIP signalling (without deactivation of the PDP contexts for media) must be performed by performing a secondary PDP context activation procedure. The need to have this flag set in both primary and secondary PDP context activation is also indicated in the following LSs from SA2, N1-020180 and N1-021362. The approved CR from SA2 (S2-021781) further clarify this.

1724 should be seen first. Should not the UE behavior be described when the PCO re-establishes the signalling PDP context ? A revision will also need modifications to the cover page.

Conclusion : Revised to 1781

N1-021781 : 24.229v510 CR#174r1, Ericsson, Type: CR, Title: Clarification of IMS signalling flag

Discussion :

Conclusion : Agreed

N1-021675 : 24.229v510 CR#175, Ericsson, Type: CR, Title: Clarifications of the binding and media grouping

Discussion : Reference to the internet drafts providing the detailed working assumption for the grouping of m-lines replace the reference of the stage-2 reference. Various clarifications of the text describing binding. Clarifications when and how a separate PDP context is required for media is needed in order to get consistant behaviour of the UE from different vendors.

Bringing in an immature I-D at this moment was questioned. But removing the drafts would need the SA2 requirement to be removed also. The SA2 reference was seen as not needed to be deleted, but stage 3 implementation document has traditionally not used stage 2 as reference for describing the implementation. The reason was that the requirement arrived late and the stage 2 was referenced meanwhile. The Rel-5 schedule risks slipping 6 months should be indicated to SA2 and for SA plenary in a LS,- if the SA2 May Madrid meeting requirement shall be implemented.

Conclusion : Postponed to wait for plenary decision and LS out in 1782 by Atle M.

N1-021676 : 24.229v510 CR#176, Ericsson, Type: CR, Title: Definition of a general-purpose PDP context for IMS

Discussion : The NOTE1 and NOTE2 of section 9.2.1 are removed and replaced with text that intends to clarify what the UE consider a general-purpose PDP context to be. It is further stated that separation of media streams from the network will override the UEs intention to have media and signalling on the same PDP context.

The notes are contradictory since 1 says it is CN IMS independant and the other has connection to SBLP. The UE intends to use the general purpose for signalling and(/or?) media should be changed to 'may'. Dedicated context are only for signalling.

Conclusion : Revised to 1783

N1-021783 : 24.229v510 CR#176r1, Ericsson, Type: CR, Title: Definition of a general-purpose PDP context for IMS

Discussion :

Conclusion : Agreed

N1-021677 : 24.229v510 CR#177, Ericsson, Type: CR, Title: Request for DNS IPv6 server address

Discussion : As an alternative to draft-ietf-ipv6-dns-discovery-05.txt or draft-ietf-pppext-ipv6-dns-addr-00.txt, it is proposed to allow the use of the PCO IE to request DNS server address(es).

The whole package for the alternative address allocation is provided. It was questioned if this could be seen as a new feature. No, since it is an alternative to an existing feature which may not be available. This alternative is defined in CN3 and therefore controllable. 23.228 was questioned as impacted. On the other hand this was seen as a minor issue where CN1 could decide without 23.228 change. If this is the only way for the terminal to discover the DNS in Re-5 timeframe it should be conditionally agreed to be treated by the September #17 plenary. Can only DHCP be used ? Yes. But if there is no DHCP client in the UE the PCO option would be the solution. The issue needs to be addressed SA2 in an LS. Related 24.008 CR is in N1-021678.

Conclusion : Revised to 1784 and LS out in 1785 by Atle M.

N1-021784 : 24.229v510 CR#177r1, Ericsson, Type: CR, Title: Request for DNS IPv6 server address

Discussion :

Conclusion : Revised to 1833

N1-021833 : 24.229v510 CR#177r2, Ericsson, Type: CR, Title: Request for DNS IPv6 server address

Discussion :

Conclusion : Agreed

N1-021678 : 24.008v540 CR#669, Ericsson, Type: CR, Title: Request for DNS IPv6 server address

Discussion : As an alternative to internet-drafts, it is proposed to allow the use of the PCO IE to request DNS IPv6 server address(es).

The backward compatibility is no different to earlier discussions on PCO for pre-release 5 SGSNs. A scenario when the DNS address is needed was given. CONDITIONALLY agreed as follows during this week:

- 1784 or a revision is agreed in CN1
- corresponding CRs on 29.061 and 27.060 are agreed in CN3

Conditionally agreed with the following conditions after CN1 #25:

- TSGN or TSGSA decide to approve the whole package of CRs from CN1 and CN3 based on LS in N1-021785.

Pre-Rel-5 SGSN is not able to handle the proposed additional element in PCO in secondary PDP context activation procedure. N1-021678 and N1-021784 need to be separated from the other CN1 CRs to TSGN plenary.

Conclusion : Conditionally agreed

N1-021679 : 24.229v510 CR#178, Ericsson, Type: CR, Title: Error cases for PDP context modification

Discussion : As the PCO IE is included in the PDP context modification procedure, actions within the UE must be specified in order to avoid faulty behaviour within the UE. Modification of a PDP context from IMS specific to general-purpose or vice versa and reception of new P-CSCF addresses shall not be allowed by the UE.

Postponed until 1704 and 1724 are seen. Is this needed when the MS get a signalling flag back. Yes, they are not contrary and cover earlier agreements on blocking error cases. Discussion offline on last sentence in second paragraph. Can the P-CSCF be changed in the middle of a session? Yes requiring a new download and specify the UE behavior, but probably not via the modification procedure. The last sentence of the second paragraph in 9.2.1A was agreed to be deleted.

Revision in N1-021839 was reconsidered and agreed not to be necessary and 1704 is already agreed.

The reason for doing so is that CN1 was not sure whether the case of P-CSCF change during session must be considered or not. If yes, then we must specify how UE behaves when the old P-CSCF IP address is overridden by a new one. If no, then we should specify that the UE ignores any possible repeated P-CSCF address in order to have predictable UE behaviour in case such a procedure is needed in the future.

Conclusion : Agreed

N1-021839 : 24.229v510 CR#178r1, Ericsson, Type: CR, Title: Error cases for PDP context modification

Discussion : The doc was reopened and considered not necessary changing status from agreed to withdrawn and 1679 was agreed.

Conclusion : *Withdrawn*

N1-021706 : 24.229v510 CR#183, Nokia, Type: CR, Title: Incorporation of draft-ietf-sip-sec-agree-04.txt

Discussion : 494 response on request with sec is mandated from the draft. The intention is to be efficient. Comment that even though we are using the headers defined in SIP-sec-agree draft the procedure we are using is not compliant with it. Editorials.

Conclusion : *Revised to 1791*

N1-021791 : 24.229v510 CR#183r1, Nokia, Type: CR, Title: Incorporation of draft-ietf-sip-sec-agree-04.txt

Discussion :

Conclusion : *Agreed*

N1-021707 : 24.229v510 CR#184, Nokia, Type: CR, Title: Registration procedures at S-CSCF

Discussion : This will be withdrawn if 1592 is agreed.

Conclusion : *Withdrawn*

N1-021708 : 24.229v510 CR#185, Nokia, Type: CR, Title: User Initiated De-registration

Discussion : S-CSCF deregisters a public identity if the request was sent integrity protected. Otherwise a 403 will be sent back.

Please insert the CR number and fill in the cover page.

Conclusion : *Revised to 1787*

N1-021787 : 24.229v510 CR#185r1, Nokia, Type: CR, Title: User Initiated De-registration

Discussion :

Conclusion : *Agreed*

N1-021709 : 24.229v510 CR#186, Nokia, Type: CR, Title: Mobile initiated de-registration

Discussion : Mandate in the UE that a de-registration request has to be sent integrity protected.

Please insert the CR number and fill in the cover page. First a Registration to establish the SA is done.

Conclusion : *Revised to 1788*

N1-021788 : 24.229v510 CR#186r1, Nokia, Type: CR, Title: Mobile initiated de-registration

Discussion :

Conclusion : *Agreed*

N1-021710 : 24.229v510 CR#187, Nokia, Type: CR, Title: CallID of REGISTER requests

Discussion : Mandate that the UE will send the REGISTER carrying RES with the same CallID which was used by the 401 which carried the challenge.

Which CallID would be used if there is another different challenge vector later on ? An integrity protected Register does not matter. Is it dialogue ID or CallID ? This involves the tags or not,- the To and From tag ? Registration does not have a dialogue established. Fill in the cover page please. Agreed that the same CallID is sent as response to 401 only.

Conclusion : *Revised to 1786*

N1-021786 : 24.229v510 CR#187r1, Nokia, Type: CR, Title: CallID of REGISTER requests

Discussion :

Conclusion : Agreed

N1-021712 : 24.228v510 CR#070, Nokia, Type: CR, Title: CallID of REGISTER requests

Discussion : The CallID of the second REGISTER is changed to be the same as the one used by the first REGISTER.

Cover page details are needed,- the WI is IMS-CCR, Rel-5 and there are no impacts on other specifications. The CR impacts UE only.

Conclusion : Agreed

N1-021713 : 24.229v510 CR#189, Nokia, Type: CR, Title: Registration procedures at P-CSCF

Discussion : SA related procedures added to the P-CSCF.

The bullet readability is difficult, and restructuring is needed. It was expected that registering or deregistering a public ID all grouped in a service profile would be handled together.

Conclusion : Revised to 1793

N1-021793 : 24.229v510 CR#189r1, Nokia, Type: CR, Title: Registration procedures at P-CSCF

Discussion :

Conclusion : Agreed

N1-021735 : 24.229v510 CR#194, Siemens, Type: CR, Title: Chapter to describe the registration event

Discussion : During CN1#24 it was requested that a new chapter should be introduced where the registration state event package should be described and that this chapter shall be referenced whenever referring to this event package. This CR introduces a new chapter and changes all references within other parts of the specification accordingly.

Why not only reference the rosenberg-draft ? It is a time schedule issue. But the dependency is there anyway so the draft change will be done, and the new section is not needed.

Conclusion : Revised to 1794

N1-021794 : 24.229v510 CR#194r1, Siemens, Type: CR, Title: Chapter to describe the registration event

Discussion : The original title is restored online.

Conclusion : Agreed

N1-021740 : Vodafone, Type: DISCUSSION, Title: Rejection of REGISTRATION in the IM CN Subsystem

Discussion :

Conclusion : Not available

N1-021742 : 24.229v510 CR#195, Siemens, Type: CR, Title: Replacing the registration-state with the reg event package

Discussion :

Conclusion : Withdrawn

7.4 IMS Deregistration

N1-021590 : 24.229v510 CR#151, H3G, Nokia, Siemens, Type: CR, Title: Deregistration of public user identities

Discussion : Clarified that the deregistration is for 'all public user identities' associated with a private identity and not deregistration of the private identity.

The principle of profile? Reopening the document gave the understanding that no changes were needed, so the revision document N1-021795 will not be needed any longer.

Conclusion : Agreed

N1-021795 : 24.229v510 CR#151r1, H3G, Nokia, Siemens, Type: CR, Title: Deregistration of public user identities

Discussion : Not available.

Conclusion : Withdrawn

N1-021658 : 24.229v510 CR#166, Siemens, Type: CR, Title: Network Initiated De-Registration at S-CSCF - Sequence of Procedures

Discussion : Messages sent from S-CSCF towards UE / P-CSCF must follow a certain sequence, in order to avoid that UE tries to re-initiate sessions (although it is already de-registered) or P-CSCF cannot transport messages to the UE.

Some rewording were discussed, and to use request or dialogue.

Conclusion : Revised to 1796

N1-021796 : 24.229v510 CR#166r1, Siemens, Type: CR, Title: Network Initiated De-Registration at S-CSCF - Sequence of Procedures

Discussion : Not available.

Conclusion : Withdrawn

7.5 IMS Configuration hiding

None.

7.6 IMS Authentication

N1-021591 : 24.229v510 CR#152, H3G, Nokia, Siemens, Type: CR, Title: Reauthentication trigger via other means

Discussion : Current text can be read to imply that alternative means are used to authenticate the user, whereas the intention is that alternative means can be used to notify the user that authentication is required. Normal authentication process is used.

Agreed with a comment that all other specs affected boxes should indicate no impact outside this CR.

Conclusion : Agreed

N1-021592 : 24.229v510 CR#153, H3G, Nokia, Siemens, Type: CR, Title: Registration with integrity protection

Discussion : Current text describing action of S-CSCF does not cover all possible options with regard to the integrity-protected flag. The current wording would mean that a REGISTER for a new public ID would be subjected to authentication every time, regardless of whether it was integrity protected or not, and the case of an unprotected REGISTER being received when an authentication is ongoing is not specified.

What about the case where the integrity protection is not known? Not needed. The note needs update. 5.4.1.2.1 3) needs clarification regarding where to proceed. Switch off autonumbering.

Conclusion : Revised to 1792

N1-021792 : 24.229v510 CR#153r1, H3G, Nokia, Siemens, Type: CR, Title: Registration with integrity protection

Discussion : Wrong rev number.

Conclusion : Agreed

7.7 IMS Call initiation

N1-021564 : 24.229v510 CR#143, Lucent T., Type: CR, Title: Replace P-Original-Dialog-ID header with unique data in Route header

Discussion : The references to P-Original-Dialog-ID are removed. The locations where it is used are replaced with a description of how a Route header may be inserted by the S-CSCF with a unique user part that will be returned to the S-CSCF by the AS. The S-CSCF will use this to make the association with the previous dialog.

Vendor specific needs to be changed with implementatin dependant. Consequent use of 'user part' ?

Conclusion : *Revised to 1797*

N1-021797 : 24.229v510 CR#143r1, Lucent T., Type: CR, Title: Replace P-Original-Dialog-ID header with unique data in Route header

Discussion :

Conclusion : *Agreed*

N1-021593 : 24.229v510 CR#154, H3G, Nokia, Siemens, Type: CR, Title: Explicit listing of need to route response messages

Discussion : It is stated in some cases that the response messages should be forwarded to the UE. However, in some places this is not stated.

There is no impact on other specifications.

Conclusion : *Revised to 1801*

N1-021801 : 24.229v510 CR#154r1, H3G, Nokia, Siemens, Type: CR, Title: Explicit listing of need to route response messages

Discussion :

Conclusion : *Agreed*

N1-021600 : 24.228v510 CR#064, Lucent T., Type: CR, Title: Add P-header examples to call flow MO#1a

Discussion : Now that the P-headers from the internet drafts are moving towards RFC status and there are procedures in 24.229 for the P-headers, it is time to finish adding in examples into the call flows in 24.228. P-Associated-URI: Affects registration only. Already present in 24.228. P-Called-Party-ID: Affects terminating flows only. Already present in 24.228. P-Visited-Network-ID: Affects registration only. Covered by a separate CR. Examples for P-Access-Network-Info, P-Charging-Vector and P-Charging-Function-Addresses are added to call flow MO#1a.

This has been commented offline and via email, and a revision was expected on 1600,1601 and 1602. It is preferable if all flows are updated completely with one CR per subclause for P-header updates due to substantial implementation work which increases with those corrections spread out.

Conclusion : *Revised to 1798*

N1-021798 : 24.228v510 CR#064r1, Lucent T., Type: CR, Title: Add P-header examples to call flow MO#1a

Discussion :

Conclusion : *Agreed*

N1-021601 : 24.228v510 CR#065, Lucent T., Type: CR, Title: Add P-header examples to call flow S-S#1a

Discussion :

Conclusion : *Revised to 1799*

N1-021799 : 24.228v510 CR#065r1, Lucent T., Type: CR, Title: Add P-header examples to call flow S-S#1a

Discussion : Not available.

Conclusion : *Withdrawn*

N1-021602 : 24.228v510 CR#066, Lucent T., Type: CR, Title: Add P-header examples to call flow MT#1a

Discussion :

Conclusion : *Revised to 1800*

N1-021800 : 24.228v510 CR#066r1, Lucent T., Type: CR, Title: Add P-header examples to call flow MT#1a

Discussion :

Conclusion : *Agreed*

N1-021659 : 24.229v510 CR#167, Siemens, Type: CR, Title: P-CSCF checks SA in MTC

Discussion :

Conclusion : *Not available*

N1-021663 : 24.229v510 CR#171, Ericsson, Type: CR, Title: Verifications at the P-CSCF for subsequent request

Discussion : The current text proposes that the P-CSCF does some verification of a subsequent requests sent by the UE. However, the text says that the P-CSCF sends a 403 response and forward the request at the same time. This seems to be an error.

Conclusion : *Revised to1802*

N1-021802 : 24.229v510 CR#171r1, Ericsson, Type: CR, Title: Verifications at the P-CSCF for subsequent request

Discussion :

Conclusion : *Agreed*

N1-021697 : 24.229v510 CR#179, Dynamicsoft, Type: CR, Title: Support of originating requests from Application Servers

Discussion : 1696 to be handled first.

Conclusion : *Withdrawn*

N1-021711 : 24.229v510 CR#188, Nokia, Type: CR, Title: Correction to the I-CSCF routing procedures

Discussion : The routing procedures at the I-CSCF as described in version 5.1.0 of this TS does not allow for a THIG to encrypt messages which leaves the home network. If however, the home network wishes to do such hiding, the resulting behaviour of the network would not be predictable.

Conclusion : *Revised to 1803*

N1-021803 : 24.229v510 CR#188r1, Nokia, Type: CR, Title: Correction to the I-CSCF routing procedures

Discussion :

Conclusion : *Agreed*

N1-021734 : 24.229v510 CR#193, Vodafone, Type: CR, Title: Correction to Emergency Session handling in IMS

Discussion : It is clearly stated already that the UE shall check whether the dialled number is an emergency number or not, and that emergency calls shall be made via the CS domain only. All other procedures (ie. the use of the 380 response) are removed.

How can the UE check and guarantee that the number is an emergency number? If not recognized within the USIM the call will be attempted.

Conclusion : Revised to 1804

N1-021804 : 24.229v510 CR#193r1, Vodafone, Type: CR, Title: Correction to Emergency Session handling in IMS

Discussion : Not available.

Conclusion : Withdrawn

7.8 IMS Call clearing

None

7.9 IMS Abnormal cases and error handling

N1-021594 : 24.229v510 CR#155, H3G, Siemens, Type: CR, Title: Specify abnormal cases for standalone transactions

Discussion : Current text defines actions for an abnormal condition, but the need to route response to the originator is implicit. It is therefore unclear as to whether the response is sent plus the specified abnormal case.

Conclusion : Rejected

7.10 Other IMS issues

N1-021557 : 24.229v510 CR#140, Ericsson, Type: CR, Title: Support of non-IMS forking.

Discussion : Align with SA2 which documented in 23.228 how IMS should support forking done externally to the IMS network. Changes to UE, P-CSCF, I-CSCF and S-CSCF procedures to handle forking.

If filtering mechanism should be introduced in S-CSCF (?) later on in some way it does not impact this needed mechanism in the UE. The INVITE restricts the media and PDP contexts that the UE reserves. The limited number of simultaneous transactions or early dialogs could be set to one in the UE. Can and must needs to be changed to may and shall. Increasing quality is a terminology to be defined by CN3. The companies that would see a S-CSCF filtering mechanism stopping forked responses to the air need to take the discussion in SA2, and a LS was proposed sent. Otherwise this UE mechanism is needed additional to implementation solutions on filtering.

Conclusion : Revised to 1812 and LS out in 1813 by Georg M.

N1-021812 : 24.229v510 CR#140r1, Ericsson, Type: CR, Title: Support of non-IMS forking.

Discussion :

Conclusion : Agreed

N1-021558 : Ericsson, Type: DISCUSSION, Title: Adding MESSAGE to 24.229

Discussion : From 23.228 v 5.2.0, SA2 intends to support service information messaging to end points. The MESSAGE method allows to do so. CN1 is not aligned with this intent.

Another opinion was that this was a Rel-6 issue, and that this was concluded some meetings ago. But the message method was added to the 23.228 later. The network is ready to handle MESSAGE for UEs supporting it, and instant messaging is not needed for Rel-5. The messaging service was not the intention to be supported with this contribution, but for an AS to have the basic capability. The messaging draft is in last call in IETF.

Conclusion : Noted

N1-021559 : 24.229v510 CR#141, Ericsson, Type: CR, Title: Adding MESSAGE to 24.229

Discussion : Align with SA2's 23.228 which documents the capabilities that an IM CN subsystems can be used to conduct session-unrelated and session-related interactions between: 1) users, 2) S-CSCF & users, 3) AS & users.

Both new I-Ds were not expected to be on critical time path for 3GPP.

Conclusion : Revised to 1814

N1-021814 : 24.229v510 CR#141r1, Ericsson, Type: CR, Title: Adding MESSAGE to 24.229

Discussion : Clarification given on the use of TCP. Some limit on the information to be passed on signalling. In IETF a draft is in progress on this but late for Rel-5 so a question was asked if UDP only be used for Rel-5? TCP is mandated for a UE in I-D and any change to the transport in 3GPP is not specified in 24.229. Caller-preference draft is not on critical path and needs to be referenced.

Conclusion : Agreed

N1-021565 : 24.228v510 CR#047r1, Lucent T., Type: CR, Title: Relationship of Application Servers to flows in 24.228

Discussion : It is proposed to add descriptive information to clause 4 explaining the absence of application servers.

Conclusion : Not treated due to time

N1-021566 : 24.228v510 CR#048r1, Lucent T., Type: CR, Title: Addition of tokenization to key

Discussion : No definition is given on how to show tokenization in the key.

Conclusion : Not treated due to time

N1-021567 : 24.228v510 CR#054r1, Lucent T., Type: CR, Title: Removal of editor's notes - clause 1 through 4 and other minor changes

Discussion :

Conclusion : Not treated due to time

N1-021568 : 24.229v510 CR#144, Lucent T., Type: CR, Title: Identification of supported IETF drafts within this release

Discussion :

Conclusion : Not treated due to time

N1-021569 : 24.229v510 CR#145, Lucent T., Type: CR, Title: Synchronize text with latest I-D for P-headers for charging

Discussion : Since CN1 #24, the internet draft has been through a review process and some changes were made to the names of the parameters. The 24.229 references need to be updated to match the current names, which are the names expected when the internet draft moves to RFC status.

Conclusion : Agreed

N1-021570 : 24.229v510 CR#146, Lucent T., Type: CR, Title: Service profiles and implicitly registered public user identities

Discussion : Clarifications are made to references to filter criteria to make it clear that it is the filter criteria from the service profile associated with the public user identity received in the request being processed. This is needed because it is possible to have more than one service profile (and hence set of filter criteria) downloaded from the HSS for a particular IMS subscription.

5.4.3.2 and 5.4.3.3 change is needed.

Conclusion : Revised to 1815

N1-021815 : 24.229v510 CR#146r1, Lucent T., Type: CR, Title: Service profiles and implicitly registered public user identities

Discussion :

Conclusion : Agreed

N1-021571 : 24.229v510 CR#147, Lucent T., Type: CR, Title: S-CSCF decides when to include IOI

Discussion : Add description to 4.5.4 that indicates that it is the S-CSCF that inserts and removes the IOI parameter most of the time. The MGCF also does this job for calls to/from the circuit-switched network. I-CSCF and BGCF will proxy the information through. P-CSCF and MRFC should never see the parameter.

Conclusion : Agreed

N1-021572 : 24.229v510 CR#148, Lucent T., Type: CR, Title: Clean up XML in clause 7.6

Discussion : Remove destination-public-user-id because it is not used. In the XML root element, change 'access' to 'alternative-service'. Also, fix typo of 'IMX' to 'IMS'.

Conclusion : Agreed

N1-021585 : Alcatel, Type: DISCUSSION, Title: Missing charging information: charge free

Discussion : Alcatel sees the need to carry a charged free indicator in the SIP messages. The most natural way to carry this information is the SDP since it allows indicating charge free per media component. Putting the charged free indication in the p-header is also a possibility, but here the problem will be to associate the information with the various media. Indeed, the charged free indication should be on a per media basis.

The 23.815 was stated to be a TR and not a TS and is therefore no base for CN1 actions, but wait for CRs on SA5 TS(s).

Conclusion : Noted

N1-021586 : Alcatel, Type: DISCUSSION, Title: Missing charging information: charged party

Discussion : The 23.815 was stated to be a TR and not a TS and is therefore no base for CN1 actions, but wait for CRs on SA5 TS(s).

Conclusion : Noted

N1-021587 : Alcatel, Type: DISCUSSION, Title: Missing charging information: tariff information

Discussion : The 23.815 was stated to be a TR and not a TS and is therefore no base for CN1 actions, but wait for CRs on SA5 TS(s).

Conclusion : Noted

N1-021598 : 24.229v510 CR#156, Lucent T., Type: CR, Title: Fix format and use of GPRS Charging Information

Discussion : The current 24.229 extension of gprs-charging-info for the P-Charging-Vector header has some unneeded text in the syntax: "gprs-charging-info; ggsn=<xyz>; gcid=pdp-id=<abc>, flow-index=<n>, auth-token=<m>". There is not a need for both "gcid=" and "pdp-id=".

See 1626 for a colliding (in some areas) CR, and if that is agreed the 'editorials' from 1598 could be incorporated into a possible 1626 revision. 1626 was rejected and this discussed. The syntax with comma is wrong, semicolon is correct. It was argued that this CR should be combined with 1626.

Conclusion : Rejected

N1-021599 : 24.229v510 CR#157, Lucent T., Type: CR, Title: Include IP address in ICID

Discussion : SA5 has decided that the ICID should consist of two components: a 4 octet value and an IP address of the entity generating the value. The initial version of the internet draft defining P-Charging-Vector only allowed for a single value. A concatenation of values was possible for IPv4 addresses, but IPv6 addresses was a problem with the SIP syntax for gen-value. The internet draft is being updated to allow a compound value for ICID. 24.229 should provide the overview description of the two-part ICID and point to 32.225 for the definition of the ICID that each node should follow. This will align the generated values with what is expected for the CDRs.

Again, could a comma separate the 2 parameters? Yes. Stage 2 reference was discussed. Why is IPv4 address needed ? It was thought that the issue is still open and that the structure will soon be decided. So only reference is made.

Conclusion : Revised to 1816

N1-021816 : 24.229v510 CR#157r1, Lucent T., Type: CR, Title: Include IP address in ICID

Discussion :

Conclusion : Agreed

N1-021606 : 24.229v510 CR#160, Lucent T., Type: CR, Title: Clause 4.5 revisions and tidy up

Discussion :

Conclusion : Not treated due to time

N1-021607 : 24.229v510 CR#161, Lucent T., Type: CR, Title: Clarifications and editorials to SIP profile

Discussion :

Conclusion : Not treated due to time

N1-021608 : 24.229v510 CR#161, Lucent T., Type: CR, Title: Revisions to message body contents in SIP profile

Discussion : Withdrawn before the meeting. Not available.

Conclusion : Withdrawn

N1-021609 : 24.008v540 CR#644, Nokia, Type: CR, Title: Go related error code to UE

Discussion : Go related error indication from GGSN to UE is carried in the Protocol Configuration Options information. The actual error codes and their usage need to be specified. It is proposed that the error codes are specified in the 29.207 and 24.008 specifies how these error codes are included in PCO.

Conclusion : Agreed

N1-021624 : 24.229v510 CR#163, NEC, Type: CR, Title: Clarifications of allocation of IP address

Discussion : In the current 4.2 of 24.229, allocation of IP addresses for IM CN subsystems and UE are misaligned with 23.221 and cause confusion for many readers.

Is 23.221 defining the dynamic allocation and that the address must be IPv6 ? No change of functionality is intended. Others saw no conflict in existing text with 23.221 which seems to point only to an I-D. Is UE impacted,- tick the box.

Conclusion : Revised to 1817

N1-021817 : 24.229v510 CR#163r1, NEC, Type: CR, Title: Clarifications of allocation of IP address

Discussion :

Conclusion : Agreed

N1-021625 : 24.229v510 CR#164, NEC, Type: CR, Title: Clarifications of retrieval of CCF and/or ECF addresses

Discussion : The proposed changes are based on LS from SA5 (S5-024245). In the current 4.5.5 of 24.229, there is no description of Sh interface for retrieval of charging addresses. In addition, there is a case that preconfigured CCF/ECF addresses are used regardless of Sh/Cx interface.

It was argued that SA2 have not agreed to have these addresses passed over Sh interface, or is it totally a SA5 issue ? The need was doubted. Is there a corresponding CN4 CR for the Sh, since some would like to see the whole change in one package. Why is the possibility to send charging addresses from S-CSCF to the AS via ISC deleted ? Sh optional or not ?

Conclusion : Postponed and LS out in 1818 by Andrew A.

N1-021626 : 24.229v510 CR#165, NEC, Type: CR, Title: Editorials for GPRS Charging ID

Discussion : In the current text, there is ambiguity how the GCID is generated from the information of PDP Context. The signalling flag is not currently defined, but for this purpose, it is stated that auth-token and flow-idex are set to 0 for signalling use. However, this description is not correct because there is no such kind of indication in 24.008. It is proposed to describe that GCID is generated from PDP ID, signalling flag in PCO IE, authorization token and flow Identifier(s) in TFT IE as defined in 9.2.5. Accordingly, syntax of P-Charging-Vector header is changed in 7.2.6.

More extentional modifications than the related CR in 1598. It was informed that SA2 has decided to have the signalling flag as part of charging and many people would like to see that text since SA5 should do the charging. It was argued that no signalling flag was needed to indicate that the PDP context was used for signalling. The P-header draft needs to be amended if signalling flag is included to get the syntax right.

Conclusion : Rejected

N1-021657 : Siemens, Type: DISCUSSION, Title: Usage of HTTP in IMS

Discussion :

Conclusion : Not available

N1-021666 : Ericsson, Type: DISCUSSION, Title: Support for tel URL

Discussion : 3GPP TS 23.228 already clarifies in section 4.3.3.3 that only SIP URIs are used for routing: "Routing of SIP signalling within the IMS shall use SIP URLs. E.164 [2] format public user identities shall not be used for routing within the IMS, and session requests based upon E.164 format public user identities will require conversion into SIP URL format for internal IMS usage." Based on above requirements, stage 2 has not clearly identified where (which entities) shall be responsible for converting an E.164 number into a Tel URL when a session arrives in IMS using the E.164 number as the user identity and addressing to the user can not be done using anything else. Ericsson proposes that the CN1 group endorses Alternative 1 as the proposed solution to this issue and send LS to CN4 WGs with the decision. The LS should request the addition of an optional "replacement URI" parameter in the Cx user location response, so that the "replacement URI" contains the equivalent SIP URI for a given TEL URL.

The problem was not agreed by all, and that SIP RFC outlines what to do. 24.229 talks on origination case while the proposal here deals with termination. It was not even agreed that Tel URL and SIP URL are encoded differently representing the same public identity. SIP URL would need to have the domain name also, leaving the two encodings having two different IMPUs ? No decisions could be reached on the equality and their IMPU representation.

Conclusion : Noted

N1-021667 : 24.229v510 CR#172, Ericsson, Type: CR, Title: Clarifications in support for tel URL

Discussion : The I-CSCF section is modified, so that the I-CSCF replaces the Request-URI with the one received from the HSS if present. The MGCF only uses SIP URIs in the Request-URI field.

Translation was not wanted from delegate(s) and if done it would be better in S-CSCF.

Conclusion : Postponed

N1-021668 : 24.229v510 CR#173, Ericsson, Type: CR, Title: Support of comp=sigcomp parameter

Discussion : The IETF has developed a mechanism for which a UA or proxy can express the support and willingness to compress SIP messages. Clarified the support of the comp=sigcomp parameter at the UE and P-CSCF.

Even if mandated it is not sure that the UE can and will compress, so this information is intended to ensure this and be aligned with the IETF drafts. The new referenced IETF draft-draft-camarillo-sip-compression was estimated to be available soon enough not to extend the Rel-5 schedule. Some did not see the need of this.

Conclusion : Rejected

N1-021673 : Ericsson, Type: DISCUSSION, Title: Introduction of PCO in more session management messages

Discussion : To prepare for the future (as well as possible late Rel 5 additions), it is proposed to add the PCO IE to the remaining SM messages, except the SM STATUS message. This is indicated in column 'Proposed additions'. The error handling of this IE in the terminal as well as SGSN and GGSN will lead to silently discarding the IE if not understood. This is an identified weakness, but if the solution is adopted, an IE that can be used to communicate peer to peer in the GPRS network will be available from Rel 5 onwards. To wait until a specific use case is identified will delay this possibility further.

The principal was not argued against, but silently accepted.

Conclusion : Noted

N1-021674 : 24.008v540 CR#668, Ericsson, Type: CR, Title: Introduction of PCO in more session management messages

Discussion : In CN1#24, the PCO-IE was introduced in more SM messages to prepare for future use. The PCO IE is now proposed introduced in most remaining SM messages. The PCO IE will then be a generic IE that can be used for UE-GGSN communication in future releases. By introducing this in most messages, the SM messages will be better prepared for coming services. The reason for introducing the IE in more SM messages is to avoid speculations when it comes to which messages that may or may not need any GGSN-UE communication. A generic text is provided to all subclauses describing the PCO-IE. A reference to 27.060 is made to show how the PCO-IE is used for PPP and IMS.

The corresponding CN4 agreed CR shall go to the plenary for joint approval.

Conclusion : Agreed

N1-021699 : 24.228v510 CR#069, Dynamicsoft, Type: CR, Title: Corrections to 24.228 flows

Discussion : Not presented.

Conclusion : Revised to 1760

N1-021760 : 24.228v510 CR#069r1, Dynamicsoft, Type: CR, Title: Corrections to 24.228 flows

Discussion : Will be agreed on the condition that no objections are emailed to the chairman by the 8th of August 2002 18:00 hours French time.

Conclusion : E-Mail APPROVAL UNTIL 8/8 18:00. Agreed in email approval.

N1-021700 : Dynamicsoft, Type: INFO, Title: SIP compression Resynchronisation

Discussion :

Conclusion : Not treated due to time

N1-021701 : 24.229v510 CR#180, NEC, Type: CR, Title: Clarification on Sh interface for charging purposes

Discussion : The proposed change is based on LS from SA5 (S5-024245). According to LS there is requirement that Sh interface is used for charging purposes.

See the discussion on 1625, and the related LS is in 1818. Postponed for checking for CN4 decisions on their Sh responsibility. What about SA2, where the Sh interface is optional in 23.228. The proposed change would implicitly mandate the support of Sh interface and therefore the proposed principle needs to be checked from SA2. Has an SA5 decision been made changing the architecture ?

Conclusion : Rejected

N1-021702 : 24.229v510 CR#181, NEC, Type: CR, Title: Clarification on location information for IMS

Discussion : At the last SA2#25 meeting, it is clarified that Le interface is used instead of Sh interface regarding searching user location for LCS in 23.228 because of authorization and privacy check. Consequently, there is misalignment between 23.228 and 23.218 regarding Sh interface for location service.

It was not agreed that the issue had bearing on SIP changes, since the AS do not need the LCS specified as specific service in 24.229 even though LCS may very well be provided from an AS.

Conclusion : Rejected

N1-021703 : 24.229v510 CR#182, NEC, Type: CR, Title: Clarification on specialized charging server

Discussion : The proposed change is based on LS from SA5(S5-024245). It is stated that there is a case that a SIP Application Server acts as specialized online charging server and communicate with content server (SIP AS) by Diameter protocol.

The CR was argued as not adding anything new, but not wrong, and that not all AS applications can be listed in 24.229. The use of Diameter is also not relevant, so another specification should be considered. See 1819 for a 23.218 CR instead..

Conclusion : Rejected

N1-021704 : 24.008v540 CR#675, Nokia, Type: CR, Title: Indication of successful establishment of Signalling PDP context to the UE

Discussion : SA#25 discussed the problem when the signalling flag is not transferred in PDP context Modification and Secondary PDP context activation by a Rel-4 SGSN, see incoming LS S2-022053 (LS on Modification of IMS signalling PDP context). The proposed solution is to indicate to the UE when the activation/modification of the dedicated signalling PDP context was successful. An UE not receiving this indication will consider the PDP context as a general purpose PDP context.

Alternative proposal in 1724. The solution in 1704 is to indicate signalling flag to the UE, not for charging, according to SA2 LS. With PCO all over in SM the future flexibility is improved. A 24.229 CRs for the procedure is needed.

Conclusion : Agreed

N1-021720 : 24.008v540 CR#679, Nortel, Type: CR, Title: Coding of Authorization Token in Traffic Flow Template

Discussion : Not presented.

Conclusion : Revised to 1840

N1-021840 : 24.008v540 CR#679r1, Nortel, Type: CR, Title: Coding of Authorization Token in Traffic Flow Template

Discussion : Will be agreed on the condition that no objections are emailed to the chairman by the 8th of August 2002 18:00 hours French time.

Conclusion : E-Mail APPROVAL UNTIL 8/8 18:00. Agreed in email approval.

N1-021721 : Nortel, Type: DISCUSSION, Title: P-Media-Authorization header handling

Discussion :

Conclusion : Not treated due to time

N1-021722 : 24.008v540 CR#680, Nortel, Type: CR, Title: Handling of P-Media-Authorization header

Discussion :

Conclusion : Not treated due to time

N1-021723 : 24.229v510 CR#190, Nortel, Type: CR, Title: Handling of P-Media-Authorization header

Discussion :

Conclusion : Not treated due to time

N1-021724 : Nortel, Type: DISCUSSION, Title: IMS Application Signalling Flag

Discussion : If it is proposed to make changes to Release 5 to address this problem, it may be more appropriate to specify a mechanism by which the flag is reliably communicated to the GGSN, rather than introduce a detection mechanism for the failure case.

Some doubted that the proposal solved the issue and supported the solution in 1704.

Conclusion : Noted

N1-021725 : 24.229v510 CR#191, Nortel, Type: CR, Title: Backwards Compatibility improvements to IMS Signalling Flag

Discussion :

Conclusion : Not available

N1-021726 : 24.008v540 CR#681, Nortel, Type: CR, Title: Use of Policy Element for Application Signalling Flag

Discussion :

Conclusion : Not available

N1-021733 : 24.229v510 CR#192, Vodafone, Type: CR, Title: Corrections related to the P-Access-Network-Info header

Discussion : Some slight alterations to the corresponding internet draft require that similar changes are made in 24.229 in order to align the two. Additionally, other sections of 24.229 need to contain text relating to the P-Access-Network-Info header.

When is it applicable ? No changes to the wording was needed. In 5.4.1.4 the added phrase shall be removed.

Conclusion : Revised to 1827

N1-021827 : 24.229v510 CR#192r1, Vodafone, Type: CR, Title: Corrections related to the P-Access-Network-Info header

Discussion :

Conclusion : Agreed

7.11 Minor IMS issues

N1-021573 : 24.229v510 CR#149, Lucent T., Type: CR, Title: Fix clause 5.2.7.4 header

Discussion :

Conclusion : Agreed

N1-021589 : 24.229v510 CR#150, H3G, Nokia, Siemens, Type: CR, Title: Removal of forward reference to non P-CSCF procedures

Discussion : Current text could be interpreted to assume clauses applicable to other network elements should be applied to P-CSCF behaviour.

Conclusion : Agreed

N1-021604 : 24.229v510 CR#158, Lucent T., Type: CR, Title: Reference updates

Discussion : Will be agreed on the condition that no objections are emailed to the chairman by the 8th of August 2002 18:00 hours French time.

Conclusion : E-Mail APPROVAL UNTIL 8/8 18:00. Agreed in email approval.

N1-021605 : 24.229v510 CR#159, Lucent T., Type: CR, Title: Abbreviation updates

Discussion : Will be agreed on the condition that no objections are emailed to the chairman by the 8th of August 2002 18:00 hours French time.

Conclusion : E-Mail APPROVAL UNTIL 8/8 18:00. Agreed in email approval.

N1-021680 : 24.008v540 CR#670, Ericsson, Type: CR, Title: Clean-up of text for the PCO-IE

Discussion : The text describing the usage of the protocol configuration options IE differs in various subclauses, even though no reason to describe this in different wordings can be found.

A generic text is provided to all subclauses describing the PCO-IE.

Conclusion : Agreed

7.12 IMS: 23.218

N1-021574 : 23.218v510 CR#020, Lucent T., Type: CR, Title: Using Service Info to determine direction of request

Discussion :

Conclusion : Withdrawn

N1-021575 : 23.218v510 CR#021, Lucent T., Type: CR, Title: Service profiles and implicitly registered public user identities

Discussion : 23.228 indicates in clause 4.3.3.4 that implicitly registered public user identities may belong to different service profiles. This should mean that all the related service profiles are downloaded from the HSS for those implicitly registered public user identities. 23.218 currently states in clause 6.3 that the relevant service profile is downloaded, implying only one. Clause 6.9.1 also only discusses a single service profile. 23.218 should be updated to be consistent with 23.228.

Multipel service profiles to be replaced with 'different' to cover all the changes. No mapping to service profile for implicitly registered public identities.

Conclusion : Revised to 1828

N1-021828 : 23.218v510 CR#021r1, Lucent T., Type: CR, Title: Service profiles and implicitly registered public user identities

Discussion :

Conclusion : Agreed

N1-021619 : 23.218v510 CR#022, NEC, Type: CR, Title: Clarification on specialized charging server

Discussion : Same reasons as for 1703 on 24.229, which will be treated after this. Going the proposed way makes future maintenance difficult.

Conclusion : Revised to 1819

N1-021819 : 23.218v510 CR#022r1, NEC, Type: CR, Title: Clarification on specialized charging server

Discussion : Should be general AS text.

Conclusion : Revised to 1859

N1-021859 : 23.218v510 CR#022r2, NEC, Type: CR, Title: Clarification on specialized charging server

Discussion :

Conclusion : Agreed

N1-021620 : 23.218v510 CR#023, NEC, Type: CR, Title: Clarification on multiple application servers

Discussion : Withdrawn before the meeting. Not available.

Conclusion : Withdrawn

N1-021621 : 23.218v510 CR#024, NEC, Type: CR, Title: Clarification on Sh interface for charging purposes

Discussion : The proposed change is based on LS from SA5 (S5-024245). According to LS there is requirement that Sh interface is used for charging purposes. There is also a case that CCF and/or ECF addresses are allocated as locally preconfigured data regardless of existence of Cx/Sh interface.

Again this makes Sh a mandatory interface repeating 1625 and 1701 discussion.

Conclusion : Rejected

N1-021622 : 23.218v510 CR#025, NEC, Type: CR, Title: Clarification on location information for IMS

Discussion : At the last SA2#25 meeting, it is clarified that Le interface is used instead of Sh interface regarding searching user location for LCS in 23.228 because of authorization and privacy check. Consequently, there is misalignment between 23.228 and 23.218 regarding Sh interface for location service.

If CN4 has decided on the LS from SA2 it should be checked if the phrase with security checking on Le is covered.

Conclusion : Revised to 1829

N1-021829 : 23.218v510 CR#025r1, NEC, Type: CR, Title: Clarification on location information for IMS

Discussion :

Conclusion : Agreed

N1-021623 : 23.218v510 CR#026, NEC, Type: CR, Title: Proposed change of term SPI to SPT

Discussion : At the last SA #16 plenary in June, it was discussed that SPI is double defined in 23.218 and IETF and shall be changed to other term. It is proposed that term SPI (Service Points of Interest) is changed to term SPT (Service Point of Trigger).

Should it be Service Point Triggers ? The new terminology is very close to Service Platform Trigger Points. The agreed abbreviation should go into 21.905 with a CR. No need for change in 24.228.

Conclusion : Revised to 1830

N1-021830 : 23.218v510 CR#026r1, NEC, Type: CR, Title: Proposed change of term SPI to SPT

Discussion :

Conclusion : Agreed

N1-021682 : 23.218v510 CR#028, Ericsson, Type: CR, Title: Clarifying Sh role

Discussion : Text is ambiguous regarding the role & content of Sh. Clarify distinction between Service Key & Service Information.

It was thought that the terms was related to Si related to CAMEL. Modifications needed. Service Key and Service Information seems to be different on different interfaces and causes confusion. To take it out from this specification can not only be in the definition part. The issue was controversial and therefore withdrawn.

Conclusion : Withdrawn

N1-021696 : 23.218v510 CR#027, Dynamicsoft, Type: CR, Title: Support of originating requests from Application Servers

Discussion : 23.218 clearly specifies that Application Servers may originate requests however it is not clear stated that Filter Criteria should be evaluated when the S-CSCF receives an initial request from an Application Server. In addition it is possible that an Application Server may originate an initial request on behalf of an IMS subscriber that is not currently registered and in this case it is possible that the S-CSCF contains no filter criteria and so has to download the filter criteria from the HSS.

It was argued that 23.228 do not give ground for AS requesting services eg on behalf of an unregistered subscriber as proposed here for Rel-5. This would impact charging and security. This CR should have category B for new feature, and only cat F is allowed. Was the intention to have the limitation since the capability can be done in eg. CAMEL. Proposed to be looked at for Rel-6. The issue must be discussed in SA2 first.

Conclusion : Revised to 1831

N1-021831 : 23.218v510 CR#027r1, Dynamicsoft, Type: CR, Title: Support of originating requests from Application Servers

Discussion : The original title was restored online.

Conclusion : Agreed

8 Release 6 work items

8.1 Presence

N1-021576 : Lucent T., Type: DISCUSSION, Title: Summary of current IETF documents on SIMPLE

Discussion :

Conclusion : Noted

N1-021577 : Lucent T., Type: TR v001, Title: Holding document for Release 6 Presence documentation

Discussion : This document is identical to N1-021189 presented to the Budapest meeting, with the exception that the table of contents has been rebuilt. Therefore it has been redesignated as Version 0.0.1. It provides a holding document for containing Presence related material from working group CN1, as such is intended to be a TR in the 800 series. At an appropriate time when the material reaches stability, it will be converted into CRs for 23.218, 24.228 and 24.229. This will probably require a drafting meeting of some form conducting a page by page review of the available material.

This proposal has a modified alternative in 1698, but none incorporates the NEC issues in tdoc 1630 on eg. LCS and group management. And interfaces with related services SMS, MMS ..? The order of clauses in 1698 was preferred. Agreed to take N1-021698 as the template and to merge from N1-021577, N1-021580 and N1-021630 what's missing from 1698.

Conclusion : Replaced by 1698

N1-021578 : Lucent T., Type: DISCUSSION, Title: Discussion of changes in revised WID for PRESNC

Discussion : This document discusses the PRESNC work item description and makes the following key proposals:

- That the existing CN1 WID is extended to cover all CN working groups.
- That the date for completion (functional freeze) is 6 months after the SA2 completion and therefore March 2003.

Conclusion : Noted

N1-021579 : Lucent T., Type: WID, Title: Revised WID for PRESNC

Discussion : The name of the TR was not found appropriate by some and it was also discussions on specification impacts, how to structure the presence work with various TR(s), and if the scope should be CN1 only. Collect comments from other groups and present it as CN WID to plenary from CN1. The only problem is CN5 feedback since they do not meet until after plenary. So their feedback will be needed on the email exploder and MCC/Per initiates this with CN5 chairman. Any changes to the TR needs to be done during the plenary.

Conclusion : Revised to 1821

N1-021821 : Lucent T., Type: WID, Title: Revised WID for PRESNC

Discussion : Ph interface removed for 23.078 and for the title in WID. And stage 3 in the title for the TR needs to be removed in order to put 23.218 stuff into the TR as well.

Conclusion : Revised to 1860

N1-021860 : Lucent T., Type: WID, Title: Revised WID for PRESNC

Discussion :

Conclusion : Agreed

N1-021580 : TR v001, Lucent T., Type: CR, Title: Suggested list of information flows and heading template for CN1 TR on Presence

Discussion : A structure is proposed for clause 5 based on the examples listed,- 7 could be about the maximum. Agreed to take N1-021698 as the template and to merge from N1-021577, N1-021580 and N1-021630 what's missing from 1698. It was suggested to take this onboard in the revised 1822.

Conclusion : Replaced by 1698

N1-021581 : TR v001, Lucent T., Type: CR, Title: Proposed flow for Watcher subscription to presence event notification

Discussion :

Conclusion : Not treated due to time

N1-021618 : Nortel, Type: DISCUSSION, Title: Presence Server updating Watcher Application flow for Presence TR

Discussion : This contribution contains a proposed flow for the CN1 presence TR on Presence Server updating IMS watcher. The flow expands on the flow in Annex A.1.4.1 of TS 23.141, with one major difference. The flow in 23.141 shows a Cx interface query between the I-CSCF in the Home network of the watcher and the HSS to obtain the S-CSCF address of the watcher. This query is not shown in the proposed flow below, as it was felt unnecessary.

Comments on the message content had been given. If the proposal is OK Nortel will bring in the CR, but since the CR numbers are not needed this doc. can be modified to something agreeable.

Conclusion : Revised to 1823

N1-021823 : Nortel, Type: DISCUSSION, Title: Presence Server updating Watcher Application flow for Presence TR

Discussion : The call flow will be added to the TR. The note was questioned regarding number of flows and the details to be in the flows. The terminology and duplication issues was raised. Insert an editors note.

Conclusion : Agreed

N1-021627 : NEC, Type: DISCUSSION, Title: Proposed charging requirements for stage 3 presence TR

Discussion :

Conclusion : Withdrawn

N1-021628 : NEC, Type: DISCUSSION, Title: Proposal of aggregated functional architecture for presence TR

Discussion : Currently, there is no clear description of aggregated IMS architecture for presence service. FigureX.2 shows the proposed aggregated IMS functional architecture for presence combined with LCS to go into stage 3 TR.

Why is this contribution not given to SA2 ? The content is a stage 2 and the overall architecture should be done there. This proposal would duplicate the whole architecture which is under SA2 control. Even though the CN1 presence TR covers both stage 2 and stage 3 issues, CN1 only deals with the ISC interface related stage 2 level requirements.

It was not within CN1 scope to analyse the proposed architecture and the originator was requested to submit the contribution to SA2 instead.

Conclusion : Rejected

N1-021629 : NEC, Type: DISCUSSION, Title: Proposal of non-IMS architecture for presence

Discussion :

Conclusion : Withdrawn

N1-021630 : NEC, Type: DISCUSSION, Title: Proposed structure of flows for stage 3 presence TR

Discussion : This contribution proposes additional flows based on the TS 23.141 v0.1.0 and draft -ietf-requirement for presence service for wireless environment produced by Nokia, etc. Current structure has basic problems as described below. Since this TR will be used as base document for stage 3 presence TR for all CN-WGs, all kind of flows within TS 23.241 should be incorporated into the TR from the point of IMS user. Since presence service combined with location service is one of important application service for Rel 6, such kind of flows should be incorporated from the perspective of IMS user. Presence service combined with IMS group management or IMS messaging should be taken into account for future, if these services fall into Rel 6.

Agreed to take N1-021698 as the template and to merge from N1-021577, N1-021580 and N1-021630 what's missing from 1698.

Proposal to make the CN1 initiated presence TR CN-wide just like the WID.

It was agreed to keep the TR within CN1 only.

Conclusion : Noted

N1-021698 : TR v001, Dynamicsoft, Type: CR, Title: Presence Service TR and example flow

Discussion : Attached is a proposed initial version of a temporary Technical Report on the Presence Service including an example flow of a watcher subscription to the Presence Status of a presentity. The intent is that when the material reaches stability, that the material is transferred to documents of TS status, (TS 23.218, TS 24.228 and TS 24.229). The proposal is to after discussion and any required revisions to agree the attached TR as the initial version for preliminary work on Presence in CN1.

Agreed to take N1-021698 as the template and to merge from N1-021577, N1-021580 and N1-021630 what's missing from 1698. The number of call flows were considered too high,- make home and visited as a mix, or ...? What about PUBLISH method ? the level of details makes transfer to TSs difficult even 24.229 is capable of covering presence. No annex is needed. Eventual table format change needs to be done at transition time. Only one call flow should be accepted.

Conclusion : Revised to 1822

N1-021822 : TR v001, Dynamicsoft, Type: CR, Title: Presence Service TR and example flow

Discussion : Agreed to take N1-021698 as the template and to merge from N1-021577, N1-021580 and N1-021630 what's missing from 1698 into the revised 1822. Consider this as informational and a base for the way forward to have something to write contributions against. Flows may change and headers for that may be made.

Conclusion : Agreed

N1-021705 : Mm02, Type: DISCUSSION, Title: Transport of presence information

Discussion :

Conclusion : Not treated due to time

8.2 MBMS (Multimedia Broadcast Multicast Services)

N1-021595 : H3G, Type: TR, Title: Proposed TR outline for MBMS

Discussion : Attached is a proposal for the creation of a technical report for the stage 3 related work for MBMS. This relates to the agreed CN1 work item which is based on the building block parent feature MBMS (2544). The current stage 2 is being worked upon and documented by Working Group SA2, and is contained within 3GPP TR 23.846, currently at version 1.1.0. There is an intent that when the material reaches stability, that the material is transferred to documents of TS status.

Shall it be a CN TR or CN1 TR ? Keep it as a CN1 TR to avoid shared responsibility. This excludes eg. the charging clause. Clause 11 is there due to handling the different options in stage 2 for storage. Where would security land ? In 6.

Conclusion : Revised to 1824

N1-021824 : H3G, Type: TR, Title: Proposed TR outline for MBMS

Discussion : It was agreed to start collecting CN1 MBMS material in a TR which would be under CN1 responsibility and cover just CN1 related issues.

The intention is not to convert the TR into a TS later, but to collect the stable material from it to already existing TSs.

Conclusion : Agreed

N1-021596 : H3G, Type: DISCUSSION, Title: Introduction to MBMS

Discussion :

Conclusion : Not available

8.3 Other Rel-6 issues

N1-021582 : Lucent T., Type: DISCUSSION, Title: Discussion of WID issues for Release 6 version of IMS-CCR

Discussion :

Work item A: It is proposed that a single CN wide work item is created for Commonality and Interoperability between IMSs. This work item may include the redocumentation of access dependent material in new specifications, or the addition of access dependent material covering additional accesses in existing specifications. This is covered in N1-021584.

Work item B: It is proposed that a CN1 specific work item is created covering additions to SIP and SDP created as a result of the stage 2 work in S2-022062, with the addition of the task "Review of additional capabilities provided in SIP by IETF, and provide documentation as whether these capabilities are supported in the IM CN subsystem or not." Omitted from this work item are IM CN subsystem issues that require major development work; it is proposed that these should be dealt with by separate work items - the main subject that falls into this category at this moment are emergency calls. This is covered in N1-021583.

Conclusion : Noted

N1-021583 : Lucent T., Type: WID, Title: WID for Release 6 version of IMS-CCR

Discussion : 2 more companies will be added. This is a CN1 work item only, and will be indicated.

Conclusion : Revised to 1825

N1-021825 : Lucent T., Type: WID, Title: WID for Release 6 version of IMS-CCR

Discussion :

Conclusion : Agreed

N1-021584 : Lucent T., Type: WID, Title: WID for Release 6 commonality and interoperability between IMSs

Discussion : Interoperability and Commonality between IP Multimedia Systems using different "IP-connectivity Networks"; stage 3. And this WID is intended only for CN1 work.

This may create problem in how to continue with 24.229 and 24.228 regarding GPRS and other technologies which may require changes to the Rel-5. Making a new document instead of restructuring was proposed. For now 24.228 could be added. Dynamicsoft is the 4th supporting company. Nokia and Qualcomm jumped on.

- No suitable parent WI could be found at the time of CN1 #25 so the WG asks TSGN plenary to identify good place for the WI in the work plan.
- 24.228 needs to be added to the list of impacted specifications.
- Possibly new specification is needed depending on how security, charging and GPRS access related parts are split out of 24.228 and 24.229

Seems difficult to do without impacting UE (but not a blocking point, just a comment on clause 9)

Conclusion : Revised to 1826

N1-021826 : Lucent T., Type: WID, Title: WID for Release 6 commonality and interoperability between IMSs

Discussion :

Conclusion : Agreed

9 LS OUT (output liaison statements)

N1-021754 : Frank S., Type: LS OUT , To: SA4, Cc : R3, GERAN, Title: LS on "Maximum and Minimum IP Packet Size"

Discussion :

Conclusion : Agreed

N1-021755 : Inma C., Type: LS OUT , **To:** GERAN **Cc:** GSMA, Title: RESPONSE LS on “Support of R99 Mobile Stations in R97 Networks”

Discussion :

Conclusion : Agreed

N1-021756 : Hannu H., Type: LS OUT , **To:** GERAN2, **Cc :** GERAN, Title: LS on GERAN Iu mode capability

Discussion :

Conclusion : Agreed

N1-021757 : Jerome P., Type: LS OUT , **To:** CN3, **Cc:** SA2, Title: LS on the wildcarding of source IP addresses and port numbers in the PCF for the packet classifier

Discussion : What about the scenario with the 64 bit prefix, and deleting port numbers ? No change required from what is written.

Conclusion : Agreed

N1-021758 : Georg M. Type: LS OUT, **To:** CN4, **Cc:** Title: LS response on Sh interface signalling

Discussion : Agreed in the CN1-CN4 meeting. The answer given in the joint meeting from CN4 was agreed and no formal response was deemed necessary.

Conclusion : Agreed

N1-021759 : Miguel G., Type: LS OUT , **To:** CN4, SA2, **Cc :** SA1, Title: Reply LS on dimensioning for IMS services

Discussion : MM02 objected to the agreement to have the limitations, but later modified the view. Using memory as argument was not fully supported and whether the question in the incoming LS was answered was doubted and that some sentences should be deleted.

Conclusion : Revised to 1832

N1-021832 : Miguel G., Type: LS OUT , **To:** CN4, SA2, **Cc :** SA1, Title: Reply LS on dimensioning for IMS services

Discussion :

Conclusion : Agreed

N1-021764 : Inma C., Type: LS OUT , **To:** SA2, **Cc :** , Title: LS on Indication of successful establishment of Signalling PDP context

Discussion : Also to CN3 ? Only informative for the user.

Conclusion : Agreed

N1-021765 : Gabor B., Type: LS OUT , **To:** SA3, **Cc :** , Title: Secure registration of IP addresses

Discussion : Second paragraph second bullet needs to reword on establishing SA. Explain the laptop scenario related to Via header, but since that would be Rel-6 it is no changes needed.

Conclusion : Revised to 1848

N1-021848 : Gabor B., Type: LS OUT , **To:** SA3, **Cc :** , Title: Secure registration of IP addresses

Discussion : The only change since the previous version is the deletion of the second sentence in the second paragraph. Reply to N1-021765.

Conclusion : Agreed

N1-021766 : Gabor B., Type: LS OUT , **To:** SA5, CN3, **Cc :** SA2, Title: Liaison Statement on Multiple Codecs

Discussion : 'Than what the user receive' was discussed with respect to bandwidth and QoS. QoS is the chargeable issue and the different charging possibilities with resource allocation and the use were discussed.

Conclusion : Revised to 1849

N1-021849 : Gabor B., Type: LS OUT , **To:** SA5, CN3, **Cc** : SA2, Title: Liaison Statement on Multiple Codecs
Discussion : The only change since the previous version is the deletion of the last paragraph. Reply to N1-021549.

Conclusion : *Agreed*

N1-021767: Georg M., Type: LS OUT , **To:** SA5, **Cc** : CN4, GERAN, RAN2, RAN3, Title: LS reply on Subscriber or Equipment Trace Impacts

Discussion : Wrong to be replaced with 'incorrectly'. More improvements needed. SA5 need, but good as info to SA2.

Conclusion : *Revised to 1850*

N1-021850: Georg M., Type: LS OUT , **To:** SA5, **Cc** : CN4, GERAN, RAN2, RAN3, SA2 Title: LS reply on Subscriber or Equipment Trace Impacts

Discussion : SA2 should see it also was added online.

Conclusion : *Agreed*

N1-021779: Georg M., Type: LS OUT , **To:** SA2, **Cc** : CN4, Title: LS on persistent dialogs for unregistered users

Discussion : Editorials. The solution was not discussed and agreed therefore biased. So only the problem should be described, or no LS to be sent ? Delete the bullet point before the solutions and all about solutions.

Conclusion : *Revised to 1851*

N1-021851: Georg M., Type: LS OUT , **To:** SA2, **Cc** : CN4, Title: LS on persistent dialogs for unregistered users

Discussion : The only change since the previous version was the deletion of all text starting from the second bullet onwards. Related with N1-021656.

Conclusion : *Agreed*

N1-021782 : Atle M., Type: LS OUT, **To:** SA, CN, SA2, **Cc:** CN3, Title: LS on Media grouping

Discussion :

Conclusion : *Agreed*

N1-021785 : Atle M., Type: LS OUT , **To:** SA2, **Cc:** CN3, Title: LS on Request for DNS server address by SM procedure

Discussion : It says that N1-021784 was agreed in CN1. If N1-021784 is rejected then the LS must be changed. Related with N1-021677. Correct the attachment numbers and insert them in the zipfile.

Conclusion : *Revised to 1834*

N1-021834 : Atle M., Type: LS OUT , **To:** SA2, CN **Cc:** CN3, Title: LS on Request for DNS server address by SM procedure

Discussion : This LS must be sent to TSGN plenary as well so that the plenary will receive SA2 reply. The only change over the previous version is the correct attachment file names. Related with N1-021678 and N1-021833. One of the attachments must be replaced with a later version of the same CR (N1-021784 was revised to N1-021833).

Conclusion : *Agreed*

N1-021805 : Roland G., Type: LS OUT , **To:** GERAN, **Cc:** GERAN2, Title: LS on "Terminal determination of network support of EDGE"

Discussion :

Conclusion : *Revised to 1835*

N1-021835 : Roland G., Type: LS OUT , **To:** GERAN, GERAN2, **Cc:** , Title: LS on "Terminal determination of network support of EDGE"

Discussion : The only change since the previous revision is the tdoc number of the related CN1 CR.

Conclusion : *Agreed*

N1-021813: Georg M., Type: LS OUT , **To:** SA2, **Cc** : , Title: LS on S-CSCF filtering responses to forked requests

Discussion : The comments received from Ericsson was not incorporated.

Conclusion : Revised to 1852

N1-021852: Georg M., Type: LS OUT , **To:** SA2, **Cc :** , Title: LS on S-CSCF filtering responses to forked requests

Discussion : Related with N1-021557.

Conclusion : Agreed

N1-021818: Andrew A., Type: LS OUT , **To:** SA2, **Cc :** CN4, SA5, Title: LS on inclusion of CCF/ECF addresses on Sh interface

Discussion : A possibilty to include the CR(s) which were not agreed ?

Conclusion : Revised to 1853

N1-021853: Andrew A., Type: LS OUT , **To:** SA2, **Cc :** CN4, SA5, Title: LS on inclusion of CCF/ECF addresses on Sh interface

Discussion : Related with N1-021621 and N1-021701.

Conclusion : Agreed

10 Late and misplaced documents

This agenda item is for the chairmans temporary placement during the meeting, while in this document those not handled are mostly marked 'Not treated due to time' as conclusion and then painted yellow, but could also be concluded with 'Not available' and then painted light blue.

11 Any Other Business (AOB)

Some urgent and late docs were agreed to go for email agreement with only yes/ no response with Hannu as mediator. The deadline is Thursday 8th August at 18:00 CET.

The tdoclist agreed was:

N1-021760
 N1-021603
 N1-021604
 N1-021605
 N1-021840
 N1-021845
 N1-021861
 N1-021862
 N1-021863

12 Closing of the meeting

16:00 Friday 02.08.2002 according to the INVITATION.

Review of dates and hosts for future meetings

It was proposed to have adhoc on Rel-6 tasks (mainly or only agreeing tdocs on the TRs) with main focus on Presence during October 2002.

- Either 15 - 17 Oct. together with SA2 was possible, and hoping that the host could expand their invitation.
- The other possibility is 22 - 24 Oct having a host candidate.

Proposed to go with SA2 due to some common agenda items. One opinion was that the adhoc could be too long for possible short number of contributions. Concluded that 22 - 24 Oct. should be the preference. The mandate for the adhoc can be outlined in CN1#26.

Meeting schedule for CN1 in 2002

3GPP Meeting	Date	Place	Host
N1-SIP-adhoc0102	14-18 January 2002	Phoenix, USA	ATTWS
N1#22	28 January-1 February 2002	Sophia Antipolis, France	ETSI
N1#22bis	19-21 February 2002	Oulu, Finland	Elisa Communications, Finnet, Nokia, Sonera, Viestintävirasto
TSGN#15	6-8 March 2002	Korea	TTA
N1#23	8-12 April 2002	Fort Lauderdale, FL, USA	NA 'Friends of 3GPP'
N1-SIPadhoc0204	23-25 April 2002	Madrid, Spain	Telefonica, Ericsson
N1#24	13-17 May 2002	Budapest, Hungary	Ericsson
TSGN#16	5-7 June 2002	Marco Island, FL, USA	Motorola
N1#25	29.July-2.August 2002	Helsinki, Finland	Sonera
TSGN#17	4-6 September 2002	France	Alcatel
N1#26	23-27 September 2002	Miami, Florida, USA	NA 'Friends of 3GPP'
N1 Rel-6 adhoc	22 - 24 October 2002	Munich, Germany	NTT DoCoMo
N1#27	11-15 November 2002	Bangkok, Thailand	Japanese Friends of 3GPP
TSGN#18	4-6 December 2002	New Orleans, Louisiana, USA	NA 'Friends of 3GPP'
N1#28	10 – 14 February 2003	Dublin, Ireland	European friends of 3GPP
TSGN #19	12 – 14 March 2003	Jersey Island, UK	UK Friends of 3GPP
N1#29	7 – 11 April 2003		
N1#30	19 – 23 May 2003		
TSGN #20	4 – 6 June 2003	FINLAND	Nokia
N1#31	18 – 22 August 2003		
TSGN #21	17 – 19 September 2003	GERMANY	To be confirmed
N1#32	27 – 31 October 2003	China???	Japanese Friends of 3GPP and Ericsson China
TSGN #22	10 – 12 December 2003	To be confirmed	North American & Japanese Friends of 3GPP

Annex A Joint meeting reports with CN3, and another with CN4

Please see section 6.1 and 6.2 respectively.

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Annex C Agreed CRs

TDoc #	Spec	CR #	Rev	CAT	Rel	C_Version	Tdoc Title	Type	WI
N1-021861	04.08	A1121	1	F	R97	6.15.0	Support of GTT (CTM)	CR	GTT
N1-021845	04.08	A1123		A	R98	7.14.0	Support of GTT (CTM)	CR	GTT
N1-021858	23.009	073	5	A	Rel-5	5.1.0	Correction for Inter-MSC relocation procedure due to multiple codecs	CR	TRFO-OOBTC
N1-021683	23.009	078		F	R99	3.10.0	Correction to codec handling in Inter-MSC Handover	CR	TRFO-OOBTC
N1-021684	23.009	079		A	Rel-4	4.4.0	Correction to codec handling in Inter-MSC Handover	CR	TRFO-OOBTC
N1-021789	23.009	080	1	B	Rel-5	5.1.0	Support for Shared Network Area	CR	TEI5
N1-021653	23.014	004	2	F	R99	3.1.0	Dual Tone Multi-Frequency signalling : Support in the whole 3GPP system, and editorial modifications.	CR	GSM/UMTS interworking
N1-021654	23.014	005	1	A	Rel-4	4.0.0	Dual Tone Multi-Frequency signalling : Support in the whole 3GPP system, and editorial modifications.	CR	GSM/UMTS interworking
N1-021655	23.014	006		A	Rel-5	5.0.0	Dual Tone Multi-Frequency signalling : Support in the whole 3GPP system, and editorial modifications.	CR	GSM/UMTS interworking
N1-021768	23.122	049	1	F	R99	3.7.0	Removal of CBQ2	CR	COMPACT
N1-021635	23.122	050		A	Rel-4	4.1.0	Removal of CBQ2	CR	COMPACT

N1-021636	23.122	051		A	Rel-5	5.0.0	Removal of CBQ2	CR	COMPACT
N1-021809	23.122	052	1	F	Rel-5	5.0.0	Applicability of the lists of "forbidden LAs"	CR	TEI5
N1-021715	23.122	053		F	R99	3.7.0	Routing Area Update at network change	CR	TEI
N1-021717	23.122	054		A	Rel-4	4.1.0	Routing Area Update at network change	CR	TEI
N1-021719	23.122	055		A	Rel-5	5.0.0	Routing Area Update at network change	CR	TEI
N1-021828	23.218	021	1	F	Rel-5	5.1.0	Service profiles and implicitly registered public user identities	CR	IMS-CCR
N1-021859	23.218	022	2	F	Rel-5	5.1.0	Clarification on specialized charging server	CR	IMS-CCR
N1-021829	23.218	025	1	F	Rel-5	5.1.0	Clarification on location information for IMS	CR	IMS-CCR
N1-021830	23.218	026	1	F	Rel-5	5.1.0	Proposed change of term SPI to SPT	CR	IMS-CCR
N1-021831	23.218	027	1	F	Rel-5	5.1.0	Support of originating requests from Application Servers	CR	IMS-CCR
N1-021836	24.007	057	1	F	Rel-5	5.0.0	Clarification of the CN release indicators	CR	TEI5
N1-021640	24.008	561	3	F	Rel-5	5.4.0	MM behaviour in case of a combined attach reject for the PS service	CR	TEI5
N1-021747	24.008	643	2		Rel-5	5.4.0	GERAN Iu Mode Capability	CR	3GSplit
N1-021609	24.008	644		F	Rel-5	5.4.0	Go related error code to UE	CR	QoS
N1-021631	24.008	648		F	R99	3.12.0	Removal of CBQ2	CR	COMPACT
N1-021632	24.008	649		A	Rel-4	4.7.0	Removal of CBQ2	CR	COMPACT
N1-021633	24.008	650		A	Rel-5	5.4.0	Removal of CBQ2	CR	COMPACT
N1-021775	24.008	651	1	A	Rel-5	5.4.0	Usage of the Service Request procedure	CR	TEI
N1-021638	24.008	652		F	Rel-5	5.4.0	MS behavior in case of change of network mode of operation	CR	TEI5
N1-021776	24.008	653	1	F	Rel-5	5.4.0	MS behavior in case of T3312 expiry	CR	GPRS
N1-021777	24.008	654	1	F	Rel-5	5.4.0	Ambiguous MM behavior in case of a failed combined Attach or RAU	CR	GPRS
N1-021669	24.008	665		F	R99	3.12.0	Usage of Service Request type 'data'	CR	TEI
N1-021670	24.008	666		A	Rel-4	4.7.0	Usage of Service Request type 'data'	CR	TEI
N1-021671	24.008	667		A	Rel-5	5.4.0	Usage of Service Request type 'data'	CR	TEI
N1-021674	24.008	668		F	Rel-5	5.4.0	Introduction of PCO in more session management messages	CR	IMS-CCR
N1-021678	24.008	669		F	Rel-5	5.4.0	Request for DNS IPv6 server address	CR	IMS-CCR
N1-021680	24.008	670		F	Rel-5	5.4.0	Clean-up of text for the PCO-IE	CR	IMS-CCR
N1-021854	24.008	671	3	F	R99	3.12.0	Correction to service request procedure	CR	GPRS
N1-021855	24.008	672	3	A	Rel-4	4.7.0	Correction to service request procedure	CR	GPRS
N1-021856	24.008	673	3	A	Rel-5	5.4.0	Correction to service request procedure	CR	GPRS
N1-021704	24.008	675		F	Rel-5	5.4.0	Indication of successful	CR	IMS-CCR

							establishment of Signalling PDP context to the UE		
N1-021761	24.008	676	1	F	R99	3.12.0	Routing Area Update at network change	CR	TEI
N1-021762	24.008	677	1	A	Rel-4	4.7.0	Routing Area Update at network change	CR	TEI
N1-021763	24.008	678	1	A	Rel-5	5.4.0	Routing Area Update at network change	CR	TEI
N1-021840	24.008	679	1	F	Rel-5	5.4.0	Coding of Authorization Token in Traffic Flow Template	CR	IMS-CCR
N1-021741	24.008	687		F	Rel-5	5.4.0	Precedence of different RAU	CR	
N1-021862	24.008	693	1	A	R99	3.12.0	Support of GTT (CTM)	CR	GTT
N1-021863	24.008	694	1	A	Rel-4	4.7.0	Support of GTT (CTM)	CR	GTT
N1-021778	24.228	063	1	F	Rel-5	5.1.0	Corection of the dns procedure	CR	IMS-CCR
N1-021798	24.228	064	1	F	Rel-5	5.1.0	Add P-header examples to call flow MO#1a	CR	IMS-CCR
N1-021800	24.228	066	1	F	Rel-5	5.1.0	Add P-header examples to call flow MT#1a	CR	IMS-CCR
N1-021664	24.228	068		F	Rel-5	5.1.0	Addition of P-Visited-Network-ID to 24.228	CR	IMS-CCR
N1-021760	24.228	069	1	F	Rel-5	5.1.0	Corrections to 24.228 flows	CR	IMS-CCR
N1-021712	24.228	070		F	Rel-5	5.1.0	CallID of REGISTER requests	CR	IMS-CCR
N1-021812	24.229	140	1	F	Rel-5	5.1.0	Support of non-IMS forking.	CR	IMS-CCR
N1-021814	24.229	141	1	F	Rel-5	5.1.0	Adding MESSAGE to 24.229	CR	IMS-CCR
N1-021563	24.229	142		F	Rel-5	5.1.0	Public user identity to use for third party register	CR	IMS-CCR
N1-021797	24.229	143	1	F	Rel-5	5.1.0	Replace P-Original-Dialog-ID header with unique data in Route header	CR	IMS-CCR
N1-021569	24.229	145		F	Rel-5	5.1.0	Synchronize text with latest I-D for P-headers for charging	CR	IMS-CCR
N1-021815	24.229	146	1	F	Rel-5	5.1.0	Service profiles and implicitly registered public user identities	CR	IMS-CCR
N1-021571	24.229	147		F	Rel-5	5.1.0	S-CSCF decides when to include IOI	CR	IMS-CCR
N1-021572	24.229	148		F	Rel-5	5.1.0	Clean up XML in clause 7.6	CR	IMS-CCR
N1-021573	24.229	149		F	Rel-5	5.1.0	Fix clause 5.2.7.4 header	CR	IMS-CCR
N1-021589	24.229	150		F	Rel-5	5.1.0	Removal of forward reference to non P-CSCF procedures	CR	IMS-CCR
N1-021590	24.229	151		F	Rel-5	5.1.0	Deregistration of public user identities	CR	IMS-CCR
N1-021591	24.229	152		F	Rel-5	5.1.0	Reauthentication trigger via other means	CR	IMS-CCR
N1-021792	24.229	153	1	F	Rel-5	5.1.0	Registration with intergrity protection	CR	IMS-CCR
N1-021801	24.229	154	1	F	Rel-5	5.1.0	Explicit listing of need to route response messages	CR	IMS-CCR
N1-021816	24.229	157	1	F	Rel-5	5.1.0	Include IP address in ICID	CR	IMS-CCR
N1-021604	24.229	158		F	Rel-5	5.1.0	Reference updates	CR	IMS-CCR
N1-021605	24.229	159		F	Rel-5	5.1.0	Abbreviation updates	CR	IMS-CCR
N1-021817	24.229	163	1	F	Rel-5	5.1.0	Clarifications of allocation of IP address	CR	IMS-CCR
N1-021780	24.229	169	1	F	Rel-5	5.1.0	Redirection of SUBSCRIBE dialogs after users registration	CR	IMS-CCR
N1-021802	24.229	171	1	F	Rel-5	5.1.0	Verifications at the P-CSCF for subsequent request	CR	IMS-CCR
N1-021781	24.229	174	1	F	Rel-5	5.1.0	Clarification of IMS signalling	CR	IMS-CCR

							flag			
N1-021783	24.229	176	1	F	Rel-5	5.1.0	Definition of a general-purpose PDP context for IMS	CR	IMS-CCR	
N1-021833	24.229	177	2	F	Rel-5	5.1.0	Request for DNS IPv6 server address	CR	IMS-CCR	
N1-021679	24.229	178		F	Rel-5	5.1.0	Error cases for PDP context modification	CR	IMS-CCR	
N1-021791	24.229	183	1	F	Rel-5	5.1.0	Incorporation of draft-ietf-sip-sec-agree-04.txt	CR	IMS-CCR	
N1-021787	24.229	185	1	F	Rel-5	5.1.0	User Initiated De-registration	CR	IMS-CCR	
N1-021788	24.229	186	1	F	Rel-5	5.1.0	Mobile initiated de-registration	CR	IMS-CCR	
N1-021786	24.229	187	1	F	Rel-5	5.1.0	CallID of REGISTER requests	CR	IMS-CCR	
N1-021803	24.229	188	1	F	Rel-5	5.1.0	Correction to the I-CSCF routing procedures	CR	IMS-CCR	
N1-021793	24.229	189	1	F	Rel-5	5.1.0	Registration procedures at P-CSCF	CR	IMS-CCR	
N1-021827	24.229	192	1	F	Rel-5	5.1.0	Corrections related to the P-Access-Network-Info header	CR	IMS-CCR	
N1-021794	24.229	194	1	F	Rel-5	5.1.0	Chapter to describe the registration event	CR	IMS-CCR	
N1-021687	43.068	007		F	Rel-5	5.0.1	ASCI VGCS call termination by dispatchers using DTMF	CR	TEI5	
N1-021688	43.069	006		F	Rel-5	5.0.1	ASCI VBS call termination by dispatchers using DTMF	CR	TEI5	

CRs for e-mail agreement

TDoc #	Tdoc Title	WI	Rel	Type	CA T	Spec	CR #	Rev	Comments	Status
N1-021603	Remaining REGISTER and SUBSCRIBE flow updates	IMS-CCR	Rel-5	CR	F	24.228	067			E-Mail APPROVAL UNTIL 8/8 18:00
N1-021604	Reference updates	IMS-CCR	Rel-5	CR	F	24.229	158			E-Mail APPROVAL UNTIL 8/8 18:00
N1-021605	Abbreviation updates	IMS-CCR	Rel-5	CR	F	24.229	159			E-Mail APPROVAL UNTIL 8/8 18:00
N1-021760	Corrections to 24.228 flows	IMS-CCR	Rel-5	CR	F	24.228	069	1	Revised before presentation. Revised from 1699.	E-Mail APPROVAL UNTIL 8/8 18:00
N1-021840	Coding of Authorization Token in Traffic Flow Template	IMS-CCR	Rel-5	CR	F	24.008	679	1	Revised from 1720	E-Mail APPROVAL UNTIL 8/8 18:00
N1-021845	Support of GTT (CTM)	GTT	R98	CR	A	04.08	A1123			E-Mail APPROVAL UNTIL 8/8 18:00
N1-021861	Support of GTT (CTM)	GTT	R97	CR	F	04.08	A1121	1	Revised from 1844	E-Mail APPROVAL UNTIL 8/8

											18:00
N1-021862	Support of GTT (CTM)	GTT	R99	CR	A	24.008	693	1	Revised from 1846		E-Mail APPROVAL UNTIL 8/8 18:00
N1-021863	Support of GTT (CTM)	GTT	Rel-4	CR	A	24.008	694	1	Revised from 1847		E-Mail APPROVAL UNTIL 8/8 18:00

Documents Endorsed by N1

None

Annex D Tdoc list (incl. the status)

A g e n d a	TDoc #	Tdoc Title	Source	Spec	WI	C_Ver sion	Rel	CA T	CR #	Rev	Type	Comments	Status
2	N1-021515	Agenda (Helsinki0207)									AG EN DA		AGREED
4	N1-021516	Draft minutes from CN#16	MCC								RE PO RT		NOTED
4	N1-021517	Draft minutes from SA#16	MCC								RE PO RT		NOTED
4	N1-021518	CN1 specification responsibility list after plenary#16	MCC								RE PO RT		NOTED
4	N1-021519	Workplan of 21.June for review	MCC								WO RK PL AN		NOTED
3	N1-021520	LS on the support of Intra Domain Connection of RAN Nodes to Multiple CN Nodes	GERAN2								LS IN	G2-020659, To: CN1, SA2 Cc:	Noted, LS out delayed to CN1#26
3	N1-021521	LS on CS data services for GERAN lu-mode	GERAN2								LS IN	G2-020684, To: CN1, CN3, SA2 Cc:	NOTED
3	N1-021522	LS Response to a Liaison on "Maximum and Minimum IP Packet Size" for REL-4 and REL-5.	GERAN								LS IN	GP-021882, To: SA4 Cc: SA2, CN1, CN3, RAN3	NOTED
3	N1-021523	LS on A/Gb evolution	GERAN								LS IN	GP-022012, To: SA2, SA3 Cc: CN1, CN3	NOTED
3	N1-021524	LS on Support of R99 Mobile Stations	GERAN								LS IN	GP-022027, To: CN1 Cc:	LS OUT in 1755 by

		in R97 Networks										GSMA	Inma
3	N1-021525	LS on GERAN Iu Mode Capability	GERAN									LS IN GP-022088, To: CN1 Cc:	LS OUT in 1756 by Hannu
3	N1-021526	LS on Terminal determination of support of EGPRS in the network (reply to N1-021477)	GERAN									LS IN GP-022115, To: CN1 Cc: SA1	NOTED
3	N1-021527	Liaison statement on the wildcarding of source IP addresses and port numbers in the PCF for the packet classifier	CN3									LS IN N3-020486, To: CN1, SA2 Cc:	LS OUT in 1757 by Jerome P.
3	N1-021528	LS on Sh interface signalling	CN4									LS IN N4-020767, To: CN1 Cc:	LS OUT in 1758 by Georg M.
3	N1-021529	Response on UMTS to GSM change during signalling phase of CS call setup	RAN2									LS IN R2-021302, To: CN1, SA2 Cc:	NOTED
3	N1-021530	LS on GSM to UMTS handover and SRNC location	RAN2									LS IN R2-021375, To: CN1, RAN3 Cc:	NOTED
3	N1-021531	Response to LS (S1-020642) on Priority Service Feasibility Study	RAN2									LS IN R2-021469, To: SA1 Cc: SA2, SA3, SA5, CN1, CN4, RAN3, T2, T3	NOTED
3	N1-021532	LS on Shared Networks	RAN3									LS IN R3-021795, To: CN4, SA2 Cc: CN1, SA1	NOTED
3	N1-021533	Liaison on "Maximum and Minimum IP Packet Size" for REL-4 and REL-5	RAN3									LS IN R3-021813, To: SA4, RAN2 Cc: SA2, CN1, CN3, GERAN	NOTED
3	N1-021534	Reply LS on Subscriber and Equipment Trace Impacts	RAN3									LS IN R3-021814, To: SA5, SWGDC Cc: SA, CN1, CN4, GERAN, RAN2	NOTED
3	N1-021535	LS on Shared Networks – Outcome of RAN3 #30	RAN3									LS IN R3-021816, To: SA2, CN4, SA5 Cc:CN1, SA1	NOTED
3	N1-021536	Liaison statement on IMS Sessions and PDP Contexts (Response on "Distribution of IMS Charging ID (ICID) from GGSN to SGSN")	SA2									LS IN S2-022004, To: SA5 Cc: CN1, CN3, CN4	NOTED
3	N1-021537	LS on CS data services for GERAN Iu-mode	SA2									LS IN S2-022043, To: GERAN2, CN1, CN3	NOTED

																		Cc:	
3	N1-021538	Response Liaison Statement on IMS Identities for R99/R4 UICC	SA2										LS IN	S2-022044, To: CN1 Cc: SA1					NOTED
3	N1-021539	Response to: Liaison statement on the wildcarding of source IP addresses and port numbers in the PCF for the packet classifier	SA2										LS IN	S2-022045, To: CN3 Cc: CN1					NOTED
3	N1-021540	LS on dimensioning for IMS services	SA2										LS IN	S2-022046, To: CN4, CN1 Cc: SA1				LS OUT in 1759 by Miguel G.	
3	N1-021541	LS on Modification of IMS signalling PDP context	SA2										LS IN	S2-022053, To: CN1 Cc:				LS OUT in 1764 by Inma C.	
3	N1-021542	LS on Shared Networks	SA2										LS IN	S2-022054, To: RAN3, CN4, CN1, GERAN2 Cc: SA1				NOTED	
3	N1-021543	Reply LS on IMS identities for Rel 99/R4 UICC	SA3										LS IN	S3-020312, To: SA2 Cc: SA1, CN1, CN4, T3				NOTED	
3	N1-021544	Secure registration of IP addresses	SA3										LS IN	S3-020316, To: CN1 Cc:				LS OUT in 1765 by Gabor B.	
3	N1-021545	LS on subscriber certificates	SA3										LS IN	S3-020322, To: CN1, SA2 Cc: SA1				Forwarded to CN1#26	
3	N1-021546	Liaison on "Maximum and Minimum IP Packet Size" for REL-4 and REL-5.	SA4										LS IN	S4-020345, To: CN1, CN3, RAN3, GERAN Cc: SA2				LS OUT in 1754 by Frank S.	
3	N1-021547	LS-reply to SA2, CN4 on Distribution of IMS Charging ID (ICID) from GGSN to SGSN	SA5										LS IN	S5-024169, To: CN4, SA2 Cc: CN3, CN1				NOTED	
3	N1-021548	Liaison Statement on Charging at I-CSCF	SA5										LS IN	S5-024170, To: CN1, SA2 Cc:				NOTED	
3	N1-021549	Liaison Statement on Multiple Codecs	SA5										LS IN	S5-024171, To: CN3 Cc: CN1, SA2				LS OUT in 1766 by Gabor B.	
3	N1-021550	LS reply to "Distribution of IMS Charging ID (ICID) from PCF/P-CSCF to GGSN"	SA5										LS IN	S5-024238, To: CN3, SA2 Cc: CN1, CN4				NOTED	
3	N1-021551	LS on inclusion of CCF/ECF addresses on Sh interface	SA5										LS IN	S5-024245, To: CN1, CN4 Cc:				NOTED	
3	N1-021552	LS on Subscriber and Equipment Trace Impacts	SA5										LS IN	S5-028140, To: CN1, CN4, GERAN, RAN2, RAN3				LS OUT in 1767 by Georg M.	

												Cc: SA		
3	N1-021553	Response to "Liaison Statement on Access to IMS Services using 3GPP release 99 and release 4 UICCs" (S1-020577)	T3									LS IN	T3-020406, To: SA1, SA2 Cc: SA5, SA3, CN1	NOTED
3	N1-021554	Liaison Statement on terminology regarding ISIM/USIM	T3									LS IN	T3-020409, To: SA1, SA2, SA3, CN1 Cc:	NOTED
3	N1-021555	LS on an error discovered in TS 11.11 and TS 51.011	T									LS IN	TP-020168, To: RAN2, GERAN1, T3 Cc:	NOTED
6.1	N1-021556	Support of non-IMS forking.	Ericsson/M. Garcia									DISC		NOTED
7.10	N1-021557	Support of non-IMS forking.	Ericsson/M. Garcia	24.229	IMS-CCR	5.1.0	Rel-5	F	140			CR		REVISED TO 1812
7.10	N1-021558	Adding MESSAGE to 24.229	Ericsson/M. Houde									DISC		NOTED
7.10	N1-021559	Adding MESSAGE to 24.229	Ericsson/M. Houde	24.229	IMS-CCR	5.1.0	Rel-5	F	141			CR		REVISED TO 1814
7.20	N1-021560	Summary of current IETF documents on SIP	Lucent Technologies / Keith Drage		IMS-CCR		Rel-5					DISC		Not available
7.20	N1-021561	Summary of current IETF documents on SIPPING	Lucent Technologies / Keith Drage		IMS-CCR		Rel-5					DISC		Not available
7.20	N1-021562	Summary of current IETF documents on MMUSIC	Lucent Technologies / Keith Drage		IMS-CCR		Rel-5					DISC		NOTED
7.30	N1-021563	Public user identity to use for third party register	Eric Henrikson / Lucent Technologies	24.229	IMS-CCR	5.1.0	Rel-5	F	142			CR		AGREED
7.70	N1-021564	Replace P-Original-Dialog-ID header with unique data in Route header	Eric Henrikson / Lucent Technologies	24.229	IMS-CCR	5.1.0	Rel-5	F	143			CR		REVISED TO 1797
7.10	N1-021565	Relationship of Application Servers to flows in 24.228	Lucent Technologies / Keith Drage	24.228	IMS-CCR	5.1.0	Rel-5	F	047	1		CR		Not treated
7.10	N1-021566	Addition of tokenization to key	Lucent Technologies / Keith Drage	24.228	IMS-CCR	5.1.0	Rel-5	F	048	1		CR		Not treated
7.10	N1-021567	Removal of editor's notes - clause 1 through 4 and other minor changes	Lucent Technologies / Keith Drage	24.228	IMS-CCR	5.1.0	Rel-5	F	054	1		CR		Not treated

7.10	N1-021568	Identification of supported IETF drafts within this release	Lucent Technologies / Keith Drage	24.229	IMS-CCR	5.1.0	Rel-5	F	144		CR		Not treated
7.10	N1-021569	Synchronize text with latest I-D for P-headers for charging	Eric Henrikson / Lucent Technologies	24.229	IMS-CCR	5.1.0	Rel-5	F	145		CR		AGREED
7.10	N1-021570	Service profiles and implicitly registered public user identities	Eric Henrikson / Lucent Technologies	24.229	IMS-CCR	5.1.0	Rel-5	F	146		CR		REVISED TO 1815
7.10	N1-021571	S-CSCF decides when to include IOI	Eric Henrikson / Lucent Technologies	24.229	IMS-CCR	5.1.0	Rel-5	F	147		CR		AGREED
7.10	N1-021572	Clean up XML in clause 7.6	Eric Henrikson / Lucent Technologies	24.229	IMS-CCR	5.1.0	Rel-5	F	148		CR		AGREED
7.11	N1-021573	Fix clause 5.2.7.4 header	Eric Henrikson / Lucent Technologies	24.229	IMS-CCR	5.1.0	Rel-5	F	149		CR		AGREED
7.12	N1-021574	Using Service Info to determine direction of request	Eric Henrikson / Lucent Technologies	23.218	IMS-CCR	5.1.0	Rel-5	F	020		CR		WITHDRAWN
7.12	N1-021575	Service profiles and implicitly registered public user identities	Eric Henrikson / Lucent Technologies	23.218	IMS-CCR	5.1.0	Rel-5	F	021		CR		REVISED TO 1828
8.01	N1-021576	Summary of current IETF documents on SIMPLE	Lucent Technologies / Keith Drage		PRESNC		Rel-6				DISC		NOTED
8.01	N1-021577	Holding document for Release 6 Presence documentation	Lucent Technologies / Keith Drage		PRESNC	0.0.1	Rel-6				TR		REPLACED BY 1698
8.01	N1-021578	Discussion of changes in revised WID for PRESNC	Lucent Technologies / Keith Drage		PRESNC		Rel-6				DISC		NOTED
8.01	N1-021579	Revised WID for PRESNC	Lucent Technologies / Keith Drage		PRESNC		Rel-6				WID		REVISED TO 1821
8.01	N1-021580	Suggested list of information flows and heading template for CN1 TR on Presence	Lucent Technologies / Keith Drage		IMS-CCR	0.0.1	Rel-6				CR		REPLACED BY 1698
8.01	N1-	Proposed flow for	Lucent		IMS-	0.0.1	Rel-				CR		Not treated

01	021581	Watcher subscription to presence event notification	Technologies / Keith Drage		CCR		6													due to time
803	N1-021582	Discussion of WID issues for Release 6 version of IMS-CCR	Lucent Technologies / Keith Drage		???		Rel-6							DISC						NOTED
803	N1-021583	WID for Release 6 version of IMS-CCR	Lucent Technologies / Keith Drage		???		Rel-6							WID						REVISED TO 1825
803	N1-021584	WID for Release 6 commonality and interoperability between IMSs	Lucent Technologies / Keith Drage		???		Rel-6							WID						REVISED TO 1826
700	N1-021585	Missing charging information: charge free	alcatel		IMS-CCR									DISC						NOTED
700	N1-021586	Missing charging information: charged party	alcatel		IMS-CCR									DISC						NOTED
700	N1-021587	Missing charging information: tariff information	alcatel		IMS-CCR									DISC						NOTED
703	N1-021588	Corection of the dns procedure	alcatel	24.228	IMS-CCR	5.1.0	Rel-5	F	063					CR						REVISED TO 1778
701	N1-021589	Removal of forward reference to non P-CSCF procedures	H3G, Nokia, Siemens	24.229	IMS-CCR	5.1.0	Rel-5	F	150					CR						AGREED
704	N1-021590	Deregistration of public user identities	H3G, Nokia, Siemens	24.229	IMS-CCR	5.1.0	Rel-5	F	151					CR	Earlier REVISIED TO 1795					AGREED
706	N1-021591	Reauthentication trigger via other means	H3G, Nokia, Siemens	24.229	IMS-CCR	5.1.0	Rel-5	F	152					CR						AGREED
706	N1-021592	Registration with intergrity protection	H3G, Nokia, Siemens	24.229	IMS-CCR	5.1.0	Rel-5	F	153					CR						REVISED TO 1792
707	N1-021593	Explicit listing of need to route response messages	H3G, Nokia, Siemens	24.229	IMS-CCR	5.1.0	Rel-5	F	154					CR						REVISED TO 1801
709	N1-021594	Specify abnormal cases for standalone transactions	H3G, Siemens	24.229	IMS-CCR	5.1.0	Rel-5	F	155					CR						REJECTED
802	N1-021595	Proposed TR outline for MBMS	H3G		MBMS		Rel-6							TR						REVISED TO 1824
802	N1-021596	Introduction to MBMS	H3G		MBMS		Rel-6							DISC						Not available
5	N1-021597	CR to 29.202 to add reference to new IETF RFC on SCTP checksum	Lucent Technologies / Keith Drage		TEI4									INFO						NOTED
700	N1-021598	Fix format and use of GPRS Charging Information	Lucent Technologies / Eric Henrikson	24.229	IMS-CCR	5.1.0	Rel-5	F	156					CR						REJECTED
700	N1-	Include IP address in	Lucent	24.229	IMS-	5.1.0	Rel-	F	157					CR						REVISED

10	021599	ICID	Technologies / Eric Henrikson		CCR		5											TO 1816
707	N1-021600	Add P-header examples to call flow MO#1a	Lucent Technologies / Eric Henrikson	24.228	IMS-CCR	5.1.0	Rel-5	F	064			CR						REVISED TO 1798
707	N1-021601	Add P-header examples to call flow S-S#1a	Lucent Technologies / Eric Henrikson	24.228	IMS-CCR	5.1.0	Rel-5	F	065			CR						REVISED TO 1799
707	N1-021602	Add P-header examples to call flow MT#1a	Lucent Technologies / Eric Henrikson	24.228	IMS-CCR	5.1.0	Rel-5	F	066			CR						REVISED TO 1800
703	N1-021603	Remaining REGISTER and SUBSCRIBE flow updates	Lucent Technologies / Keith Drage	24.228	IMS-CCR	5.1.0	Rel-5	F	067			CR	E-Mail APPROVAL UNTIL 8/8 18:00					REJECTED
711	N1-021604	Reference updates	Lucent Technologies / Keith Drage	24.229	IMS-CCR	5.1.0	Rel-5	F	158			CR	E-Mail APPROVAL UNTIL 8/8 18:00					AGREED
711	N1-021605	Abbreviation updates	Lucent Technologies / Keith Drage	24.229	IMS-CCR	5.1.0	Rel-5	F	159			CR	E-Mail APPROVAL UNTIL 8/8 18:00					AGREED
710	N1-021606	Clause 4.5 revisions and tidy up	Lucent Technologies / Keith Drage	24.229	IMS-CCR	5.1.0	Rel-5	F	160			CR						Not treated
710	N1-021607	Clarifications and editorials to SIP profile	Lucent Technologies / Keith Drage	24.229	IMS-CCR	5.1.0	Rel-5	F	161			CR						Not treated
710	N1-021608	Revisions to message body contents in SIP profile	Lucent Technologies / Keith Drage	24.229	IMS-CCR	5.1.0	Rel-5	F	162			CR	Withdrawn before the meeting. Not available.					WITHDRAWN
710	N1-021609	Go related error code to UE	Nokia	24.008	QoS	5.4.0	Rel-5	F	644			CR						AGREED
62	N1-021610	Correction for Inter-MSC relocation procedure due to multiple codecs	Nokia	23.009	TRFO-OOBTC	4.4.0	Rel-4	F	072	2		CR						REJECTED
62	N1-021611	Correction for Inter-MSC relocation procedure due to multiple codecs	Nokia	23.009	TRFO-OOBTC	5.1.0	Rel-5	A	073	2		CR						REVISED TO 1820
5	N1-021612	Correct interpretation of Teardown Indicator	Nortel Networks / Sonia Garapaty	24.007	GPRS	3.9.0	R99	F	054			CR						REJECTED
5	N1-021613	Correct interpretation of Teardown Indicator	Nortel Networks / Sonia Garapaty	24.007	GPRS	4.2.0	Rel-4	A	055			CR						Not available
5	N1-021614	Correct interpretation of Teardown Indicator	Nortel Networks / Sonia	24.007	GPRS	5.0.0	Rel-5	A	056			CR						Not available

			Garapaty										
5	N1-021615	Correct interpretation of Teardown Indicator	Nortel Networks / Sonia Garapaty	24.008	GPRS	3.12.0	R99	F	645		CR		REJECTED
5	N1-021616	Correct interpretation of Teardown Indicator	Nortel Networks / Sonia Garapaty	24.008	GPRS	4.7.0	Rel-4	A	646		CR		Not available
5	N1-021617	Correct interpretation of Teardown Indicator	Nortel Networks / Sonia Garapaty	24.008	GPRS	5.4.0	Rel-5	A	647		CR		Not available
8.01	N1-021618	Presence Server updating Watcher Application flow for Presence TR	Nortel Networks / Sonia Garapaty		PRESNC						DISC		REVISED TO 1823
7.12	N1-021619	Clarification on specialized charging server	NEC/Yukio Kawanami	23.218	IMS-CCR	5.1.0	Rel-5	F	022		CR		REVISED TO 1819
7.12	N1-021620	Clarification on multiple application servers	NEC/Yukio Kawanami	23.218	IMS-CCR	5.1.0	Rel-5	F	023		CR	Withdrawn before the meeting. Not available.	WITHDRAWN
7.12	N1-021621	Clarification on Sh interface for charging purposes	NEC/Yukio Kawanami	23.218	IMS-CCR	5.1.0	Rel-5	F	024		CR		REJECTED
7.12	N1-021622	Clarification on location information for IMS	NEC/Yukio Kawanami	23.218	IMS-CCR	5.1.0	Rel-5	F	025		CR		REVISED TO 1829
7.12	N1-021623	Proposed change of term SPI to SPT	NEC/Yukio Kawanami	23.218	IMS-CCR	5.1.0	Rel-5	F	026		CR		REVISED TO 1830
7.10	N1-021624	Clarifications of allocation of IP address	NEC/Yukio Kawanami	24.229	IMS-CCR	5.1.0	Rel-5	F	163		CR		REVISED TO 1817
7.10	N1-021625	Clarifications of retrieval of CCF and/or ECF addresses	NEC/Yukio Kawanami	24.229	IMS-CCR	5.1.0	Rel-5	F	164		CR		POSTPONED
7.10	N1-021626	Editorials for GPRS Charging ID	NEC/Yukio Kawanami	24.229	IMS-CCR	5.1.0	Rel-5	F	165		CR		REJECTED
8.01	N1-021627	Proposed charging requirements for stage 3 presence TR	NEC/Yukio Kawanami		PRESNC		Rel-6				DISC		WITHDRAWN
8.01	N1-021628	Proposal of aggregated functional architecture for presence TR	NEC/Yukio Kawanami		PRESNC		Rel-6				DISC		REJECTED
8.01	N1-021629	Proposal of non-IMS architecture for presence	NEC/Yukio Kawanami		PRESNC		Rel-6				DISC		WITHDRAWN
8.01	N1-021630	Proposed structure of flows for stage 3 presence TR	NEC/Yukio Kawanami		PRESNC		Rel-6				DISC		NOTED
5	N1-021631	Removal of CBQ2	Siemens	24.008	COMPACT	3.12.0	R99	F	648		CR		AGREED
5	N1-	Removal of CBQ2	Siemens	24.008	COMP	4.7.0	Rel-	A	649		CR		AGREED

	021632				ACT		4							
5	N1-021633	Removal of CBQ2	Siemens	24.008	COMPACT	5.4.0	Rel-5	A	650			CR		AGREED
5	N1-021634	Removal of CBQ2	Siemens	23.122	COMPACT	3.7.0	R99	F	049			CR		REVISED TO 1768
5	N1-021635	Removal of CBQ2	Siemens	23.122	COMPACT	4.1.0	Rel-4	A	050			CR		AGREED
5	N1-021636	Removal of CBQ2	Siemens	23.122	COMPACT	5.0.0	Rel-5	A	051			CR		AGREED
7.01	N1-021637	Usage of the Service Request procedure	Siemens	24.008	TEI	5.4.0	Rel-5	A	651			CR		REVISED TO 1775
7.01	N1-021638	MS behavior in case of change of network mode of operation	Siemens	24.008	TEI5	5.4.0	Rel-5	F	652			CR		AGREED
7.01	N1-021639	MS behavior in case of T3312 expiry	Siemens	24.008	GPRS	5.4.0	Rel-5	F	653			CR		REVISED TO 1776
7.01	N1-021640	MM behaviour in case of a combined attach reject for the PS service	Siemens	24.008	TEI5	5.4.0	Rel-5	F	561	3		CR		AGREED
7.01	N1-021641	Ambiguous MM behavior in case of a failed combined Attach or RAU	Siemens	24.008	GPRS	5.4.0	Rel-5	F	654			CR		REVISED TO 1777
7.01	N1-021642	Applicability of the lists of "forbidden LAs"	Siemens	23.122	TEI5	5.0.0	Rel-5	F	052			CR		REVISED TO 1809
5	N1-021643	Cell barring after Network authentication rejection from the UE	ETSI-NEC Technologies (UK) LTD	24.008	Security	3.12.0	R99	F	655			CR		REVISED TO 1769
5	N1-021644	Cell barring after Network authentication rejection from the UE	ETSI-NEC Technologies (UK) LTD	24.008	Security	4.7.0	Rel-4	A	656			CR		REVISED TO 1770
5	N1-021645	Cell barring after Network authentication rejection from the UE	ETSI-NEC Technologies (UK) LTD	24.008	Security	5.4.0	Rel-5	A	657			CR		REVISED TO 1771
5	N1-021646	Ciphering and integrity protection	ETSI-NEC Technologies (UK) LTD	24.008	Security	3.12.0	R99	F	658			CR		REJECTED
5	N1-021647	Ciphering and integrity protection	ETSI-NEC Technologies (UK) LTD	24.008	Security	4.7.0	Rel-4	A	659			CR		REJECTED
5	N1-021648	Ciphering and integrity protection	ETSI-NEC Technologies (UK) LTD	24.008	Security	5.4.0	Rel-5	A	660			CR		REJECTED
7.	N1-	T3317 start timing	ETSI-	24.008	TEI5	5.4.0	Rel-	F	661			CR		REJECTE

0 1	021649		NEC Technologies (UK) LTD				5										D
5	N1- 021650	UMTS to GSM handover	ETSI- NEC Technologies (UK) LTD	24.008	GSM/U MTS interworking	3.12.0	R99	F	662			CR					Not available
5	N1- 021651	UMTS to GSM handover	ETSI- NEC Technologies (UK) LTD	24.008	GSM/U MTS interworking	4.7.0	Rel- 4	A	663			CR					Not available
5	N1- 021652	UMTS to GSM handover	ETSI- NEC Technologies (UK) LTD	24.008	GSM/U MTS interworking	5.4.0	Rel- 5	A	664			CR					Not available
5	N1- 021653	Dual Tone Multi- Frequency signalling : Support in the whole 3GPP system, and editorial modifications.	ETSI- NEC Technologies (UK) LTD	23.014	GSM/U MTS interworking	3.1.0	R99	F	004	2		CR					AGREED
5	N1- 021654	Dual Tone Multi- Frequency signalling : Support in the whole 3GPP system, and editorial modifications.	ETSI- NEC Technologies (UK) LTD	23.014	GSM/U MTS interworking	4.0.0	Rel- 4	A	005	1		CR					AGREED
5	N1- 021655	Dual Tone Multi- Frequency signalling : Support in the whole 3GPP system, and editorial modifications.	ETSI- NEC Technologies (UK) LTD	23.014	GSM/U MTS interworking	5.0.0	Rel- 5	A	006			CR					AGREED
7. 0 3	N1- 021656	Discussion Paper on Redirection of Offline-Subscriptions	Siemens / Georg Mayer									DIS C					NOTED
7. 1 0	N1- 021657	Usage of HTTP in IMS	Siemens / Georg Mayer									DIS C					Not available
7. 0 4	N1- 021658	Network Initiated De- Registration at S- CSCF - Sequence of Procedures	Siemens / Georg Mayer	24.229	IMS- CCR	5.1.0	Rel- 5	F	166			CR					REVISED TO 1796
7. 0 7	N1- 021659	P-CSCF checks SA in MTC	Siemens / Georg Mayer	24.229	IMS- CCR	5.1.0	Rel- 5	F	167			CR					Not available
7. 0 3	N1- 021660	Terminate SUBSCRIBE dialogs by CSCFs	Siemens / Georg Mayer	24.229	IMS- CCR	5.1.0	Rel- 5	F	168			CR					REJECTE D
7. 0 3	N1- 021661	Redirection of SUBSCRIBE dialogs after users registration	Siemens / Georg Mayer	24.229	IMS- CCR	5.1.0	Rel- 5	F	169			CR					REVISED TO 1780
7. 0 3	N1- 021662	I-CSCF (THIG) handling of P- Service-Route and Path	Ericsson/ M. Garcia	24.229	IMS- CCR	5.1.0	Rel- 5	F	170			CR					REJECTE D

7.07	N1-021663	Verifications at the P-CSCF for subsequent request	Ericsson/M. Garcia	24.229	IMS-CCR	5.1.0	Rel-5	F	171		CR		REVISED TO 1802
7.03	N1-021664	Addition of P-Visited-Network-ID to 24.228	Ericsson/M. Garcia	24.228	IMS-CCR	5.1.0	Rel-5	F	068		CR		AGREED
7.02	N1-021665	I-D: draft-garcia-sipping-3gpp-p-headers	Ericsson/M. Garcia				Rel-5				INFO		NOTED
7.10	N1-021666	Support for tel URL	Ericsson/M. Garcia				Rel-5				DISC		NOTED
7.10	N1-021667	Clarifications in support for tel URL	Ericsson/M. Garcia	24.229	IMS-CCR	5.1.0	Rel-5	F	172		CR		POSTPONED
7.10	N1-021668	Support of comp=sigcomp parameter	Ericsson/M. Garcia	24.229	IMS-CCR	5.1.0	Rel-5	F	173		CR		REJECTED
5	N1-021669	Usage of Service Request type 'data'	Siemens	24.008	TEI	3.12.0	R99	F	665		CR		AGREED
5	N1-021670	Usage of Service Request type 'data'	Siemens	24.008	TEI	4.7.0	Rel-4	A	666		CR		AGREED
5	N1-021671	Usage of Service Request type 'data'	Siemens	24.008	TEI	5.4.0	Rel-5	A	667		CR		AGREED
7.03	N1-021672	Clarification of IMS signalling flag	Ericsson/A. Monrad	24.229	IMS-CCR	5.1.0	Rel-5	F	174		CR		REVISED TO 1781
7.10	N1-021673	Introduction of PCO in more session management messages	Ericsson/A. Monrad								DISC		NOTED
7.10	N1-021674	Introduction of PCO in more session management messages	Ericsson/A. Monrad	24.008	IMS-CCR	5.4.0	Rel-5	F	668		CR		AGREED
7.03	N1-021675	Clarifications of the binding and media grouping	Ericsson/A. Monrad	24.229	IMS-CCR	5.1.0	Rel-5	F	175		CR		Postponed and LS out in 1782 by Atle M.
7.03	N1-021676	Definition of a general-purpose PDP context for IMS	Ericsson/A. Monrad	24.229	IMS-CCR	5.1.0	Rel-5	F	176		CR		REVISED TO 1783
7.03	N1-021677	Request for DNS IPv6 server address	Ericsson/A. Monrad	24.229	IMS-CCR	5.1.0	Rel-5	F	177		CR		REVISED TO 1784
7.03	N1-021678	Request for DNS IPv6 server address	Ericsson/A. Monrad	24.008	IMS-CCR	5.4.0	Rel-5	F	669		CR	Conditionally agreed, see the minutes.	AGREED
7.03	N1-021679	Error cases for PDP context modification	Ericsson/A. Monrad	24.229	IMS-CCR	5.1.0	Rel-5	F	178		CR		AGREED
7.11	N1-021680	Clean-up of text for the PCO-IE	Ericsson/A. Monrad	24.008	IMS-CCR	5.4.0	Rel-5	F	670		CR		AGREED
7.02	N1-021681	TS 24.228	Nokia/Krisztián Kiss	24.228	IMS-CCR	5.1.0	Rel-5				INFO		Not available
7.12	N1-021682	Clarifying Sh role	Ericsson/M. Houde	23.218	IMS-CCR	5.1.0	Rel-5	F	028		CR		WITHDRAWN

6.2	N1-021683	Correction to codec handling in Inter-MS C Handover	Ericsson /Phil	23.009	TRFO-OOBTC	3.10.0	R99	F	078		CR		AGREED
6.2	N1-021684	Correction to codec handling in Inter-MS C Handover	Ericsson /Phil	23.009	TRFO-OOBTC	4.4.0	Rel-4	A	079		CR		AGREED
7.01	N1-021685	Support for Shared Network Area	Ericsson /Rouzbeh	23.009	TEI5	5.1.0	Rel-5	B	080		CR	Not presented.	REVISED TO 1789
7.01	N1-021686	GTT (CTM) release independence	Ericsson /Rouzbeh	24.008	GTT	5.4.0	Rel-5	F	684		CR		REJECTED
7.01	N1-021687	ASCI VGCS call termination by dispatchers using DTMF	EPRT, Siemens, Nortel, Sagem, Kapsch	43.068	TEI5	5.0.1	Rel-5	F	007		CR		AGREED
7.01	N1-021688	ASCI VBS call termination by dispatchers using DTMF	EPRT, Siemens, Nortel, Sagem, Kapsch	43.069	TEI5	5.0.1	Rel-5	F	006		CR		AGREED
7.01	N1-021689	Signalling concept for HSCSD services in GERAN lu-mode	Siemens								DISC		NOTED
7.01	N1-021690	Introduction of GERAN lu-mode	Siemens	23.034	TEI5	5.0.0	Rel-5	F	007		CR		Not available
5	N1-021691	Correction to service request procedure	Ericsson	24.008	GPRS	3.12.0	R99	F	671		CR		REVISED TO 1772
5	N1-021692	Correction to service request procedure	Ericsson	24.008	GPRS	4.7.0	Rel-4	A	672		CR		REVISED TO 1773
5	N1-021693	Correction to service request procedure	Ericsson	24.008	GPRS	5.4.0	Rel-5	A	673		CR		REVISED TO 1774
5	N1-021694	Clarification of the meaning of 'appropriate channel'	Ericsson		TEI						DISC		NOTED
7.01	N1-021695	SSD parameter handling for future proof	Ericsson	24.008	TEI-5	5.4.0	Rel-5	F	674		CR		REJECTED
7.12	N1-021696	Support of originating requests from Application Servers	dynamicsoft, Andrew Allen	23.218	IMS-CCR	5.1.0	Rel-5	F	027		CR		REVISED TO 1831
7.07	N1-021697	Support of originating requests from Application Servers	Dynamics of Andrew Allen	24.229	IMS-CCR	5.1.0	Rel-5	F	179		CR		WITHDRAWN
8.01	N1-021698	Presence Service TR and example flow	Dynamics of Andrew Allen		IMS-CCR	0.0.0	Rel-6				CR	CR with TR v001	REVISED TO 1822
7.10	N1-021699	Corrections to 24.228 flows	Dynamics of Andrew Allen	24.228	IMS-CCR	5.1.0	Rel-5	F	069		CR	Not presented.	REVISED TO 1760
7.00	N1-021700	SIP compression Resynchronisation	Dynamics of Andrew Allen	24.229	IMS-CCR	5.1.0	Rel-5				INFO		Not treated due to time
7.00	N1-021701	Clarification on Sh interface for charging purposes	NEC/Yukio Kawanami	24.229	IMS-CCR	5.1.0	Rel-5	F	180		CR		REJECTED

7.10	N1-021702	Clarification on location information for IMS	NEC/Yukio Kawanami	24.229	IMS-CCR	5.1.0	Rel-5	F	181		CR		REJECTED
7.10	N1-021703	Clarification on specialized charging server	NEC/Yukio Kawanami	24.229	IMS-CCR	5.1.0	Rel-5	F	182		CR		REJECTED
7.10	N1-021704	Indication of successful establishment of Signalling PDP context to the UE	Nokia	24.008	IMS-CCR	5.4.0	Rel-5	F	675		CR		AGREED
8.1	N1-021705	Transport of presence information	Mm02								DISC		Not treated due to time
7.03	N1-021706	Incorporation of draft-ietf-sip-sec-agree-04.txt	Bajkó Gábor/Nokia	24.229	IMS-CCR	5.1.0	Rel-5	F	183		CR		REVISED TO 1791
7.03	N1-021707	Registration procedures at S-CSCF	Bajkó Gábor/Nokia	24.229	IMS-CCR	5.1.0	Rel-5	F	184		CR		WITHDRAWN
7.03	N1-021708	User Initiated De-registration	Bajkó Gábor/Nokia	24.229	IMS-CCR	5.1.0	Rel-5	F	185		CR		REVISED TO 1787
7.03	N1-021709	Mobile initiated de-registration	Bajkó Gábor/Nokia	24.229	IMS-CCR	5.1.0	Rel-5	F	186		CR		REVISED TO 1788
7.03	N1-021710	CallID of REGISTER requests	Bajkó Gábor/Nokia	24.229	IMS-CCR	5.1.0	Rel-5	F	187		CR		REVISED TO 1786
7.07	N1-021711	Correction to the I-CSCF routing procedures	Bajkó Gábor/Nokia	24.229	IMS-CCR	5.1.0	Rel-5	F	188		CR		REVISED TO 1711
7.03	N1-021712	CallID of REGISTER requests	Bajkó Gábor/Nokia	24.228	IMS-CCR	5.1.0	Rel-5	F	070		CR		AGREED
7.03	N1-021713	Registration procedures at P-CSCF	Bajkó Gábor/Nokia	24.229	IMS-CCR	5.1.0	Rel-5	F	189		CR		REVISED TO 1793
5	N1-021714	Routing Area Update at network change	Orange France	24.008	TEI	3.12.0	R99	F	676		CR	Revised before presentation.	REVISED TO 1761
5	N1-021715	Routing Area Update at network change	Orange France	23.122	TEI	3.7.0	R99	F	053		CR		AGREED
5	N1-021716	Routing Area Update at network change	Orange France	24.008	TEI	4.7.0	Rel-4	A	677		CR	Revised before presentation.	REVISED TO 1762
5	N1-021717	Routing Area Update at network change	Orange France	23.122	TEI	4.1.0	Rel-4	A	054		CR		AGREED
5	N1-021718	Routing Area Update at network change	Orange France	24.008	TEI	5.4.0	Rel-5	A	678		CR	Revised before presentation.	REVISED TO 1763
5	N1-021719	Routing Area Update at network change	Orange France	23.122	TEI	5.0.0	Rel-5	A	055		CR		AGREED
7.10	N1-021720	Coding of Authorization Token in Traffic Flow Template	Nortel Networks / Sonia Garapaty	24.008	IMS-CCR	5.4.0	Rel-5	F	679		CR		REVISED TO 1840
7.10	N1-021721	P-Media-Authorization header handling	Nortel Networks / Sonia		IMS-CCR						DISC		Not treated due to time

			Garapaty										
7.10	N1-021722	Handling of P-Media-Authorization header	Nortel Networks / Sonia Garapaty	24.008	IMS-CCR	5.4.0	Rel-5	F	680		CR		Not treated
7.10	N1-021723	Handling of P-Media-Authorization header	Nortel Networks / Sonia Garapaty	24.229	IMS-CCR	5.1.0	Rel-5	F	190		CR		Not treated
7.10	N1-021724	IMS Application Signalling Flag	Nortel Networks / Sonia Garapaty		IMS-CCR						DISC		NOTED
7.10	N1-021725	Backwards Compatibility improvements to IMS Signalling Flag	Nortel Networks / Sonia Garapaty	24.229	IMS-CCR	5.1.0	Rel-5	F	191		CR		Not available
7.10	N1-021726	Use of Policy Element for Application Signalling Flag	Nortel Networks / Sonia Garapaty	24.008	IMS-CCR	5.4.0	Rel-5	F	681		CR		Not available
5	N1-021727	Clarification of the meaning of 'appropriate channel'	Ericsson	24.008	TEI5	5.4.0	Rel-5	F	682		CR		REJECTED
5	N1-021728	Change of network mode of operation within the same RA	Siemens								DISC		NOTED
5	N1-021729	Change of network mode of operation within the same RA	Siemens	24.008	TEI5	5.4.0	Rel-5	F	683		CR		REJECTED
7.11	N1-021730	Usage of the Service Request procedure	Siemens AG	24.008	TEI	3.12.0	R99	F	685		CR		REJECTED
7.11	N1-021731	Usage of the Service Request procedure	Siemens AG	24.008	TEI	4.7.0	Rel-4	A	686		CR		REJECTED
6.2	N1-021732	Codec Handling in inter MSC handover/relocation	Nokia								DISC		NOTED
7.10	N1-021733	Corrections related to the P-Access-Network-Info header	Vodafone/Duncan Mills	24.229	IMS-CCR	5.1.0	Rel-5	F	192		CR		REVISED TO 1827
7.10	N1-021734	Correction to Emergency Session handling in IMS	Vodafone/Duncan Mills	24.229	IMS-CCR	5.1.0	Rel-5	F	193		CR		REVISED TO 1804
7.10	N1-021735	Chapter to describe the registration event	Siemens / Mark	24.229	IMS-CCR	5.1.0	Rel-5	F	194		CR		REVISED TO 1794
3	N1-021736	LS on Network Authentication Failure in the UE	SA3								LS IN	S3-020408, To: CN1 Cc:	NOTED
3	N1-021737	Same SA to be utilized for both UDP and TCP transport protocols	SA3								LS IN	S3-020417, To: CN1 Cc:	NOTED
3	N1-021738	Bye and Response attacks in IMS	SA3								LS IN	S3-020441, To: CN1 Cc:	NOTED
3	N1-021739	Security aspects of A/Gb evolution	SA3								LS IN	S3-020445, To: GERAN	NOTED

												Cc: SA2, CN1, CN3		
7.03	N1-021740	Rejection of REGISTRATION in the IM CN Subsystem	Vodafone/Duncan Mills									DISC	Not available	
7.01	N1-021741	Precedence of different RAU	Siemens	24.008		5.4.0	Rel-5	F	687			CR	AGREED	
7.03	N1-021742	Replacing the registration-state with the reg event package	Siemens / Mark	24.229	IMS-CCR	5.1.0	Rel-5	F	195			CR	WITHDRAWN	
7.01	N1-021743	Default value for CN Common GSM-MAP NAS system information	Siemens AG	24.008	TEI	3.12.0	R99	F	688			CR	Not treated	
7.01	N1-021744	Default value for CN Common GSM-MAP NAS system information	Siemens AG	24.008	TEI	4.7.0	Rel-4	A	689			CR	Not treated	
7.01	N1-021745	Default value for CN Common GSM-MAP NAS system information	Siemens AG	24.008	TEI	5.4.0	Rel-5	A	690			CR	Not treated	
4	N1-021746	CN1 IMS open item list	Chairman									INFO	NOTED	
7.01	N1-021747	GERAN Iu Mode Capability	GERAN	24.008	3GSplit	5.4.0	Rel-5		643	2		CR	This CR is split out from LS N1-021525.	AGREED
6.02	N1-021748	N4-020944											Replaced by N1-021683. Not available.	WITHDRAWN
6.02	N1-021749	N4-020945											Replaced by N1-021684. Not available.	WITHDRAWN
6.02	N1-021750	Available codecs list and selected codec indication	Nokia	29.002			Rel-4					INFO	Equals N4-020974.	NOTED
6.02	N1-021751	Available codecs list and selected codec indication	Nokia	29.002			Rel-5					INFO	Equals N4-020947.	NOTED
6.02	N1-021752	Access Rights Information for Network Sharing on the E-Interface	Nortel									DISC	Equals N4-020967.	NOTED
3	N1-021753	Liaison statement response on "Maximum and Minimum IP Packet Size" for REL-4 and REL-5"	SA2									LSIN	S2-022005, To: SA4 Cc: CN1, CN3, RAN3, GERAN	NOTED
9	N1-021754	LS on "Maximum and Minimum IP Packet Size"	Frank S.									LSOUT	Linked to 1546. To: SA4 Cc: R3, GERAN	AGREED
9	N1-021755	RESPONSE LS on "Support of R99 Mobile Stations in R97 Networks"	Inma C.									LSOUT	Linked to 1524. To: GERAN Cc: GSMA	AGREED

9	N1-021756	LS on GERAN lu mode capability	Hannu H.								LS OU T	Linked to 1525. To: GERAN2, Cc : GERAN	AGREED
9	N1-021757	LS on the wildcarding of source IP addresses and port numbers in the PCF for the packet classifier	Jerome P.								LS OU T	Linked to 1527. To: CN3 Cc: SA2	AGREED
9	N1-021758	LS response on Sh interface signalling	Georg M.								LS OU T	Linked to 1528. To: CN4 Cc:	AGREED
9	N1-021759	Reply LS on dimensioning for IMS services	Miguel G.								LS OU T	Linked to 1540. To: CN4, SA2, Cc : SA1	REVISED TO 1832
7.10	N1-021760	Corrections to 24.228 flows	Dynamics of Andrew Allen	24.228	IMS-CCR	5.1.0	Rel-5	F	069	1	CR	Revised before presentation. Revised from 1699. E-Mail APPROVAL UNTIL 8/8 18:00	AGREED
5	N1-021761	Routing Area Update at network change	Orange France	24.008	TEI	3.12.0	R99	F	676	1	CR	Revised before presentation. Revised from 1714.	AGREED
5	N1-021762	Routing Area Update at network change	Orange France	24.008	TEI	4.7.0	Rel-4	A	677	1	CR	Revised before presentation. Revised from 1716.	AGREED
5	N1-021763	Routing Area Update at network change	Orange France	24.008	TEI	5.4.0	Rel-5	A	678	1	CR	Revised before presentation. Revised from 1718.	AGREED
9	N1-021764	LS on Indication of successful establishment of Signalling PDP context	Inma C.								LS OU T	Linked to 1541. To: SA2	AGREED
9	N1-021765	Secure registration of IP addresses	Gabor B.								LS OU T	Linked to 1544. To: SA3	REVISED TO 1848
9	N1-021766	Liaison Statement on Multiple Codecs	Gabor B.								LS OU T	Linked to 1549. To: SA5, CN3, Cc : SA2	REVISED TO 1849
9	N1-021767	LS reply on Subscriber or Equipment Trace Impacts	Georg M.								LS OU T	Linked to 1552. To: SA5, Cc: CN4, GERAN, RAN2, RAN3,	REVISED TO 1850
5	N1-021768	Removal of CBQ2	Siemens	23.122	COMPACT	3.7.0	R99	F	049	1	CR	Revised from 1634	AGREED
5	N1-021769	Cell barring after Network authentication	ETSI-NEC Technolog	24.008	Security	3.12.0	R99	F	655	1	CR	Revised from 1643	REJECTED

		rejection from the UE	ies (UK) LTD										
5	N1-021770	Cell barring after Network authentication rejection from the UE	ETSI-NEC Technologies (UK) LTD	24.008	Security	4.7.0	Rel-4	A	656	1	CR	Revised from 1644	REJECTED
5	N1-021771	Cell barring after Network authentication rejection from the UE	ETSI-NEC Technologies (UK) LTD	24.008	Security	5.4.0	Rel-5	A	657	1	CR	Revised from 1645	REJECTED
5	N1-021772	Correction to service request procedure	Ericsson	24.008	GPRS	3.12.0	R99	F	671	1	CR	Revised from 1691	REVISED TO 1841
5	N1-021773	Correction to service request procedure	Ericsson	24.008	GPRS	4.7.0	Rel-4	A	672	1	CR	Revised from 1692	REVISED TO 1842
5	N1-021774	Correction to service request procedure	Ericsson	24.008	GPRS	5.4.0	Rel-5	A	673	1	CR	Revised from 1693	REVISED TO 1843
7.0	N1-021775	Usage of the Service Request procedure	Siemens	24.008	TEI	5.4.0	Rel-5	A	651	1	CR	Revised from 1637	AGREED
7.0	N1-021776	MS behavior in case of T3312 expiry	Siemens	24.008	GPRS	5.4.0	Rel-5	F	653	1	CR	Revised from 1639	AGREED
7.0	N1-021777	Ambiguous MM behavior in case of a failed combined Attach or RAU	Siemens	24.008	GPRS	5.4.0	Rel-5	F	654	1	CR	Revised from 1641	AGREED
7.0	N1-021778	Correction of the dns procedure	alcatel	24.228	IMS-CCR	5.1.0	Rel-5	F	063	1	CR	Revised from 1588	AGREED
9	N1-021779	LS on persistent dialogs for unregistered users	Georg M.								LS OUT	Related to 1656. To: SA2, Cc: CN4	REVISED TO 1851
7.0	N1-021780	Redirection of SUBSCRIBE dialogs after users registration	Siemens / Georg Mayer	24.229	IMS-CCR	5.1.0	Rel-5	F	169	1	CR	Revised from 1661	AGREED
7.0	N1-021781	Clarification of IMS signalling flag	Ericsson/A. Monrad	24.229	IMS-CCR	5.1.0	Rel-5	F	174	1	CR	Revised from 1672	AGREED
9	N1-021782	LS on Media grouping	Atle M.								LS OUT	Related to 1675. To: SA, CN, SA2, Cc: CN3	AGREED
7.0	N1-021783	Definition of a general-purpose PDP context for IMS	Ericsson/A. Monrad	24.229	IMS-CCR	5.1.0	Rel-5	F	176	1	CR	Revised from 1676	AGREED
7.0	N1-021784	Request for DNS IPv6 server address	Ericsson/A. Monrad	24.229	IMS-CCR	5.1.0	Rel-5	F	177	1	CR	Revised from 1677	REVISED TO 1833
9	N1-021785	LS on Request for DNS server address by SM procedure	Atle M.								LS OUT	Related to 1677. To: SA2, Cc: CN3	REVISED TO 1834
7.0	N1-021786	CallID of REGISTER requests	Bajkó Gábor/No kia	24.229	IMS-CCR	5.1.0	Rel-5	F	187	1	CR	Revised from 1710	AGREED

7.03	N1-021787	User Initiated De-registration	Bajkó Gábor/Nokia	24.229	IMS-CCR	5.1.0	Rel-5	F	185	1	CR	Revised from 1708	AGREED
7.03	N1-021788	Mobile initiated de-registration	Bajkó Gábor/Nokia	24.229	IMS-CCR	5.1.0	Rel-5	F	186	1	CR	Revised from 1709	AGREED
7.01	N1-021789	Support for Shared Network Area	Ericsson / Rouzbeh	23.009	TEI5	5.1.0	Rel-5	B	080	1	CR	Revised from 1685	AGREED
3	N1-021790	Response Liaison Statement on Multiple Codecs	CN3								LS IN	N3-020666, To: SA5, CN1, SA2 Cc:	Forwarded to CN1#26
7.03	N1-021791	Incorporation of draft-ietf-sip-sec-agree-04.txt	Bajkó Gábor/Nokia	24.229	IMS-CCR	5.1.0	Rel-5	F	183	1	CR	Revised from 1706	AGREED
7.06	N1-021792	Registration with intergrity protection	H3G, Nokia, Siemens	24.229	IMS-CCR	5.1.0	Rel-5	F	153	1	CR	Revised from 1592	AGREED
7.03	N1-021793	Registration procedures at P-CSCF	Bajkó Gábor/Nokia	24.229	IMS-CCR	5.1.0	Rel-5	F	189	1	CR	Revised from 1713	AGREED
7.03	N1-021794	Chapter to describe the registration event	Siemens / Mark	24.229	IMS-CCR	5.1.0	Rel-5	F	194	1	CR	Revised from 1735	AGREED
7.04	N1-021795	Deregistration of public user identities	H3G, Nokia, Siemens	24.229	IMS-CCR	5.1.0	Rel-5	F	151	1	CR	Revised from 1590. Not available.	WITHDRAWN
7.04	N1-021796	Network Initiated De-Registration at S-CSCF - Sequence of Procedures	Siemens / Georg Mayer	24.229	IMS-CCR	5.1.0	Rel-5	F	166	1	CR	Revised from 1658. Not available.	WITHDRAWN
7.07	N1-021797	Replace P-Original-Dialog-ID header with unique data in Route header	Eric Henrikson / Lucent Technologies	24.229	IMS-CCR	5.1.0	Rel-5	F	143	1	CR	Revised from 1564	AGREED
7.07	N1-021798	Add P-header examples to call flow MO#1a	Lucent Technologies / Eric Henrikson	24.228	IMS-CCR	5.1.0	Rel-5	F	064	1	CR	Revised from 1600	AGREED
7.07	N1-021799	Add P-header examples to call flow S-S#1a	Lucent Technologies / Eric Henrikson	24.228	IMS-CCR	5.1.0	Rel-5	F	065	1	CR	Revised from 1601. Not available.	WITHDRAWN
7.07	N1-021800	Add P-header examples to call flow MT#1a	Lucent Technologies / Eric Henrikson	24.228	IMS-CCR	5.1.0	Rel-5	F	066	1	CR	Revised from 1602	AGREED
7.07	N1-021801	Explicit listing of need to route response messages	H3G, Nokia, Siemens	24.229	IMS-CCR	5.1.0	Rel-5	F	154	1	CR	Revised from 1593	AGREED
7.07	N1-021802	Verifications at the P-CSCF for subsequent request	Ericsson/ M. Garcia	24.229	IMS-CCR	5.1.0	Rel-5	F	171	1	CR	Revised from 1663	AGREED
7.07	N1-021803	Correction to the I-CSCF routing procedures	Bajkó Gábor/Nokia	24.229	IMS-CCR	5.1.0	Rel-5	F	188	1	CR	Revised from 1711	AGREED
7.07	N1-021804	Correction to Emergency Session handling in IMS	Vodafone/ Duncan Mills	24.229	IMS-CCR	5.1.0	Rel-5	F	193	1	CR	Revised from 1734. Not available	WITHDRAWN

9	N1-021805	LS on " Terminal determination of network support of EDGE "	Roland G.								LS OU T	To: GERAN, Cc: GERAN2	REVISED TO 1835
5	N1-021806	Clarification of the CN release indicators	Siemens AG	24.007	TEI5	5.0.0	Rel-5	F	057		CR		REVISED TO 1836
5	N1-021807	Clarification of the CN release indicators	Siemens AG	44.018	TEI5	5.0.0	Rel-5				INF O		REVISED TO 1837
5	N1-021808	Clarification of the CN release indicators	Siemens AG	44.060	TEI5	5.1.1	Rel-5				INF O		REVISED TO 1838
7.01	N1-021809	Applicability of the lists of "forbidden LAs"	Siemens	23.122	TEI5	5.0.0	Rel-5	F	052	1	CR	Revised from 1642	AGREED
3	N1-021810	Response LS to "Liaison statement on DTMF"	SA4								LS IN	S4-020478, To: CN1 CC: SA2, CN3, CN4, RAN2, GERAN2	Forwarded to CN1#26
3	N1-021811	Liaison Statement on QoS parameters Maximum bit rate/Guaranteed bit rate	SA4								LS IN	S4-020482, To: RAN2, RAN3, SA2 CC: CN1	Forwarded to CN1#26
7.10	N1-021812	Support of non-IMS forking.	Ericsson/ M. Garcia	24.229	IMS- CCR	5.1.0	Rel-5	F	140	1	CR	Revised from 1557	AGREED
9	N1-021813	LS on S-CSCF filtering responses to forked requests	Georg M.								LS OU T	Related to 1557. To: SA2, Cc :	REVISED TO 1852
7.10	N1-021814	Adding MESSAGE to 24.229	Ericsson/ M. Houde	24.229	IMS- CCR	5.1.0	Rel-5	F	141	1	CR	Revised from 1559.	AGREED
7.10	N1-021815	Service profiles and implicitly registered public user identities	Eric Henrikson / Lucent Technologies	24.229	IMS- CCR	5.1.0	Rel-5	F	146	1	CR	Revised from 1570	AGREED
7.10	N1-021816	Include IP address in ICID	Lucent Technologies / Eric Henrikson	24.229	IMS- CCR	5.1.0	Rel-5	F	157	1	CR	Revised from 1599	AGREED
7.10	N1-021817	Clarifications of allocation of IP address	NEC/Yukio Kawanami	24.229	IMS- CCR	5.1.0	Rel-5	F	163	1	CR	Revised from 1624	AGREED
9	N1-021818	LS on inclusion of CCF/ECF addresses on Sh interface	Andrew A.								LS OU T	Related to 1621, 1625 and 1701. To: SA2, Cc : CN4, SA5	REVISED TO 1853
7.12	N1-021819	Clarification on specialized charging server	NEC/Yukio Kawanami	23.218	IMS- CCR	5.1.0	Rel-5	F	022	1	CR	Revised from 1619	REVISED TO 1859
6.2	N1-021820	Correction for Inter- MSC relocation procedure due to multiple codecs	Nokia	23.009	TRFO- OOBTC	5.1.0	Rel-5	A	073	3	CR	Revised from 1611	REVISED TO 1857

8.01	N1-021821	Revised WID for PRESNC	Lucent Technologies / Keith Drage		PRESNC		Rel-6				WID	Revised from 1579	REVISED TO 1860
8.01	N1-021822	Presence Service TR and example flow	Dynamics of Andrew Allen		IMS-CCR	0.0.0	Rel-6				CR	CR with TR v001. Revised from 1698	AGREED
8.01	N1-021823	Presence Server updating Watcher Application flow for Presence TR	Nortel Networks / Sonia Garapaty		PRESNC						DISC	Revised from 1618	AGREED
8.02	N1-021824	Proposed TR outline for MBMS	H3G		MBMS	0.0.0	Rel-6				TR	Revised from 1595	AGREED
8.03	N1-021825	WID for Release 6 version of IMS-CCR	Lucent Technologies / Keith Drage		???		Rel-6				WID	Revised from 1583	AGREED
8.03	N1-021826	WID for Release 6 commonality and interoperability between IMSs	Lucent Technologies / Keith Drage		???		Rel-6				WID	Revised from 1584	AGREED
7.10	N1-021827	Corrections related to the P-Access-Network-Info header	Vodafone/ Duncan Mills	24.229	IMS-CCR	5.1.0	Rel-5	F	192	1	CR	Revised from 1733	AGREED
7.12	N1-021828	Service profiles and implicitly registered public user identities	Eric Henrikson / Lucent Technologies	23.218	IMS-CCR	5.1.0	Rel-5	F	021	1	CR	Revised from 1575	AGREED
7.12	N1-021829	Clarification on location information for IMS	NEC/Yukio Kawanami	23.218	IMS-CCR	5.1.0	Rel-5	F	025	1	CR	Revised from 1622	AGREED
7.12	N1-021830	Proposed change of term SPI to SPT	NEC/Yukio Kawanami	23.218	IMS-CCR	5.1.0	Rel-5	F	026	1	CR	Revised from 1623	AGREED
7.12	N1-021831	Support of originating requests from Application Servers	dynamicsoft, Andrew Allen	23.218	IMS-CCR	5.1.0	Rel-5	F	027	1	CR	Revised from 1696	AGREED
9	N1-021832	Reply LS on dimensioning for IMS services	Miguel G.								LSOUT	Linked to 1540. To: CN4, SA2, Cc: SA1 Revised from 1759	AGREED
7.13	N1-021833	Request for DNS IPv6 server address	Ericsson/ A. Monrad	24.229	IMS-CCR	5.1.0	Rel-5	F	177	2	CR	Revised from 1677 and 1784	AGREED
9	N1-021834	LS on Request for DNS server address by SM procedure	Atle M.								LSOUT	Related to 1677. To: SA2, CN, Cc: CN3 Revised from 1785	AGREED
9	N1-021835	LS on " Terminal determination of network support of EDGE "	Roland G.								LSOUT	To: GERAN, GERAN2, Cc: Revised from 1805	AGREED
5	N1-021836	Clarification of the CN release	Siemens AG	24.007	TEI5	5.0.0	Rel-5	F	057	1	CR	Revised from 1806	AGREED

		indicators												
5	N1-021837	Clarification of the CN release indicators	Siemens AG	44.018	TEI5	5.0.0	Rel-5					INFO	Revised from 1807	NOTED
5	N1-021838	Clarification of the CN release indicators	Siemens AG	44.060	TEI5	5.1.1	Rel-5					INFO	Revised from 1808	NOTED
7.03	N1-021839	Error cases for PDP context modification	Ericsson/A. Monrad	24.229	IMS-CCR	5.1.0	Rel-5	F	178	1		CR	Revised from 1679	WITHDRAWN
7.10	N1-021840	Coding of Authorization Token in Traffic Flow Template	Nortel Networks / Sonia Garapaty	24.008	IMS-CCR	5.4.0	Rel-5	F	679	1		CR	Revised from 1720. E-Mail APPROVAL UNTIL 8/8 18:00	AGREED
5	N1-021841	Correction to service request procedure	Ericsson	24.008	GPRS	3.12.0	R99	F	671	2		CR	Revised from 1691 and 1772	REVISED TO 1854
5	N1-021842	Correction to service request procedure	Ericsson	24.008	GPRS	4.7.0	Rel-4	A	672	2		CR	Revised from 1692 and 1773	REVISED TO 1855
5	N1-021843	Correction to service request procedure	Ericsson	24.008	GPRS	5.4.0	Rel-5	A	673	2		CR	Revised from 1693 and 1774	REVISED TO 1856
7.01	N1-021844	Support of GTT (CTM)	Ericsson	04.08	GTT	6.15.0	R97	F	A1121			CR		REVISED TO 1861
7.01	N1-021845	Support of GTT (CTM)	Ericsson	04.08	GTT	7.14.0	R98	A	A1123			CR	E-Mail APPROVAL UNTIL 8/8 18:00	AGREED
7.01	N1-021846	Support of GTT (CTM)	Ericsson	24.008	GTT	3.12.0	R99	A	693			CR		REVISED TO 1862
7.01	N1-021847	Support of GTT (CTM)	Ericsson	24.008	GTT	4.7.0	Rel-4	A	694			CR		REVISED TO 1863
9	N1-021848	Secure registration of IP addresses	Gabor B.									LS OUT	Linked to 1544. To: SA3 Revised from 1765	AGREED
9	N1-021849	Liaison Statement on Multiple Codecs	Gabor B.									LS OUT	Linked to 1549. To: SA5, CN3, Cc : SA2 Revised from 1766	AGREED
9	N1-021850	LS reply on Subscriber or Equipment Trace Impacts	Georg M.									LS OUT	Linked to 1552. To: SA5, Cc: CN4, GERAN, RAN2, RAN3, SA2 Revised from 1767	AGREED
9	N1-021851	LS on persistent dialogs for unregistered users	Georg M.									LS OUT	Related to 1656. To: SA2, Cc: CN4 Revised from 1779	AGREED
9	N1-021852	LS on S-CSCF filtering responses to forked requests	Georg M.									LS OUT	Related to 1557. To: SA2, Cc : Revised	AGREED

												from 1813	
9	N1-021853	LS on inclusion of CCF/ECF addresses on Sh interface	Andrew A.								LS OUT	Related to 1621, 1625 and 1701. To: SA2, Cc : CN4, SA5 Revised from 1818	AGREED
5	N1-021854	Correction to service request procedure	Ericsson	24.008	GPRS	3.12.0	R99	F	671	3	CR	Revised from 1691, 1772 and 1841	AGREED
5	N1-021855	Correction to service request procedure	Ericsson	24.008	GPRS	4.7.0	Rel-4	A	672	3	CR	Revised from 1692, 1773 and 1842	AGREED
5	N1-021856	Correction to service request procedure	Ericsson	24.008	GPRS	5.4.0	Rel-5	A	673	3	CR	Revised from 1693, 1774 and 1843	AGREED
6.2	N1-021857	Correction for Inter-MSC relocation procedure due to multiple codecs	Nokia	23.009	TRFO-OOBTC	5.1.0	Rel-5	A	073	4	CR	Revised from 1611 and 1820	REVISED TO 1858
6.2	N1-021858	Correction for Inter-MSC relocation procedure due to multiple codecs	Nokia	23.009	TRFO-OOBTC	5.1.0	Rel-5	A	073	5	CR	Revised from 1611, 1820 and 1857	AGREED
7.12	N1-021859	Clarification on specialized charging server	NEC/Yukio Kawanami	23.218	IMS-CCR	5.1.0	Rel-5	F	022	2	CR	Revised from 1619 and 1819	AGREED
8.01	N1-021860	Revised WID for PRESNC	Lucent Technologies / Keith Drage		PRESNC		Rel-6				WID	Revised from 1579 and 1821	AGREED
7.01	N1-021861	Support of GTT (CTM)	Ericsson	04.08	GTT	6.15.0	R97	F	A1121	1	CR	Revised from 1844. E-Mail APPROVAL UNTIL 8/8 18:00	AGREED
7.01	N1-021862	Support of GTT (CTM)	Ericsson	24.008	GTT	3.12.0	R99	A	693	1	CR	Revised from 1846. E-Mail APPROVAL UNTIL 8/8 18:00	AGREED
7.01	N1-021863	Support of GTT (CTM)	Ericsson	24.008	GTT	4.7.0	Rel-4	A	694	1	CR	Revised from 1847. E-Mail APPROVAL UNTIL 8/8 18:00	AGREED

Annex E Liaison Statements OUT

TDoc #	Status	Source	Tdoc Title	Type	Comments
N1-021754	AGREED	Frank S.	LS on "Maximum and Minimum IP Packet Size"	LS OUT	Linked to 1546. To: SA4 Cc: R3, GERAN
N1-021755	AGREED	Inma C.	RESPONSE LS on "Support of R99 Mobile Stations in R97 Networks"	LS OUT	Linked to 1524. To: GERAN Cc: GSMA
N1-021756	AGREED	Hannu H.	LS on GERAN lu mode	LS	Linked to 1525.

			capability	OUT	To: GERAN2, Cc : GERAN
N1-021757	AGREED	Jerome P.	LS on the wildcarding of source IP addresses and port numbers in the PCF for the packet classifier	LS OUT	Linked to 1527. To: CN3 Cc: SA2
N1-021758	AGREED	Georg M.	LS response on Sh interface signalling	LS OUT	Linked to 1528. To: CN4 Cc:
N1-021764	AGREED	Inma C.	LS on Indication of successful establishment of Signalling PDP context	LS OUT	Linked to 1541. To: SA2
N1-021782	AGREED	Atle M.	LS on Media grouping	LS OUT	Related to 1675. To: SA, CN, SA2, Cc: CN3
N1-021832	AGREED	Miguel G.	Reply LS on dimensioning for IMS services	LS OUT	Linked to 1540. To: CN4, SA2, Cc : SA1 Revised from 1759
N1-021834	AGREED	Atle M.	LS on Request for DNS server address by SM procedure	LS OUT	Related to 1677. To: SA2, CN, Cc: CN3 Revised from 1785
N1-021835	AGREED	Roland G.	LS on " Terminal determination of network support of EDGE "	LS OUT	To: GERAN, GERAN2, Cc: Revised from 1805
N1-021848	AGREED	Gabor B.	Secure registration of IP addresses	LS OUT	Linked to 1544. To: SA3 Revised from 1765
N1-021849	AGREED	Gabor B.	Liaison Statement on Multiple Codecs	LS OUT	Linked to 1549. To: SA5, CN3, Cc : SA2 Revised from 1766
N1-021850	AGREED	Georg M.	LS reply on Subscriber or Equipment Trace Impacts	LS OUT	Linked to 1552. To: SA5, Cc: CN4, GERAN, RAN2, RAN3, SA2 Revised from 1767
N1-021851	AGREED	Georg M.	LS on persistent dialogs for unregistered users	LS OUT	Related to 1656. To: SA2, Cc: CN4 Revised from 1779
N1-021852	AGREED	Georg M.	LS on S-CSCF filtering responses to forked requests	LS OUT	Related to 1557. To: SA2, Cc : Revised from 1813
N1-021853	AGREED	Andrew A.	LS on inclusion of CCF/ECF addresses on Sh interface	LS OUT	Related to 1621, 1625 and 1701. To: SA2, Cc : CN4, SA5 Revised from 1818

Annex F Aged Work Items

Meeting	Status	TDoc #	Source	Tdoc Title	Type	WI
N1-25	AGREED	N1-021825	Lucent Technologies / Keith Drage	WID for Release 6 version of IMS-CCR	WID	???

N1-25	AGREED	N1-021826	Lucent Technologies / Keith Drage	WID for Release 6 commonality and interoperability between IMSs	WID	???
N1-25	AGREED	N1-021860	Lucent Technologies / Keith Drage	Revised WID for PRESNC	WID	PRESNC

Annex G Agreed specifications (TS or TR)

Meeting	Status	TDoc #	Spec	Tdoc Title	C_Ver	Type	Rel
N1-25	AGREED	N1-021822		Presence Service TR and example flow	0.0.0	TR	Rel-6
N1-25	AGREED	N1-021824		Proposed TR outline for MBMS	0.0.0	TR	Rel-6

Annex H List of CRs to N1 drafts

TDoc #	Spec	CR #	Rev	CAT	Rel	C_Ver	Tdoc Title	Type	WI	Status
N1-021822					Rel-6	0.0.0	Presence Service TR and example flow	CR	IMS-CCR	AGREED