3GPP TSG CN Plenary, Meeting #11
Palm Springs, USA. 14th - 16th March 2001

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Title: CN2#16 Meeting Report

Agenda item: 6.2.1

Document for: INFORMATION

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Meeting Report

TSG CN WG2#17
Sophia Antipolis, France

26 February - 02 March 2001

Chairman: Keijo Palviainen (Nokia)

Secretary: Per Johan Jørgensen (MCC)

Host: ETSI

List of participants:	Annex A
Output documents	Annex B
Tdoc list (incl. the status)	Annex C
CN2 specifications/drafts list	Annex D
Joint meeting between CN1/2/3/4	Annex E

Documents could be found on the 3GPP-server:

http://www.3gpp.org/TSG_CN/WG2_camel/Plenary/TSGN2_17_SophiaA/Docs

ftp://ftp.3gpp.org/TSG_CN/WG2_camel/Plenary/TSGN2_17_SophiaA/Docs

1 Opening of the meeting and approval of the agenda (09:00 Monday)

N2-010116 : CN2 chairman, Title: Proposed meeting agenda

Discussion : Our CRs to CN4 on R99 needed mirrorCRs on Rel-4 MAP. They will be distributed by Rogier. Give mandate during this meeting to CAMEL4 ad-hoc.

Conclusion : Agreed

2 Allocation of documents to agenda items

N2-010117 : CN2 chairman, Title: Proposed document allocation

Discussion : Green colour marked tdocs to be handled first to prepare for the CN4 co-operation. 23.060 should be handled early, but none identified. Added to item 8.4 will be doc. 201 from Alcatel 'Provision of interworking between INAP and ISUP'. These changes were made to 117 and circulated.

Conclusion : Agreed. This is a living document and will be updated several times during the meeting.

3 Reports

N2-010126 : MCC, Title: Meeting Report, TSG CN WG2#16, Beijing, China, 15 - 19 January 2001

Discussion : Updated with change of status on one CR, and added new annex with CN4 CRs agreed and endorsed, after comments from e-mail 2 weeks checking period on the minutes.

Conclusion: Agreed

N2-010131 : Lucent, Title: Report of SA1 CAMEL Ad Hoc 31Jan - 1 Feb

Discussion : TSG-CN2 should note that new service requirements have been added to CAMEL Phase 4. These new requirements are:

Enhancements of dialled services.

Notification of GPRS mobility management to CSE.

Provision of location information of called subscriber.

Notification of charging information to CSE extended to cover the MT case (previously this was agreed for MO and MF calls).

Further, TSG-CN2 should note that at SA#11, SA1 modified some output documents from the Ad hoc. Most notably, SA1 decided not to accept the decision documented in S1C01062 relating to the support of previous CAMEL Phases. SA1 concluded that support of CAMEL Phase 4 by an IPLM/VPLMN also means the support of CAMEL Phase 3 and CAMEL Phase 2 as documented in S1-010242.

Trigger criteria for MT-SMS still defined in stage 1, but not in stage 2 was questioned and removal or not either place will be discussed off-line.

GPRS barring item was approved. Camel adHoc will in future be held during regular SA1 meetings.

Conclusion: Noted

4 Input Liaison Statements

N2-010118 : CN4, Type: LS IN (Tdoc N4-001045 / To SA2 / CC to CN1, CN2 and GERAN) ,
Title: LS to LS on GERAN impacts on overall system architecture

Discussion : CN2 did not identify any impact.

Conclusion:Noted

N2-010119 : SA2, Type: LS IN (S2-010388 / To SA1 / CC to CN1/2/3/4/5),
Title: LS "Control of IP multimedia services"

Discussion : Equals NJ-010122. 29.998 mapping document is a recommendation only, not normative.

Conclusion: Noted in joint session

N2-010151 : SA2, Type: LS IN (S2-010393 / To: TSG-SA1, TSG-SA3, TSG-SA4, TSG-SA5, TSG-CN WG1, TSG-CN WG2 TSG-CN WG3 TSG-CN WG4 TSG-R WG2, TSG-R WG3, TSG-T WG2) ,
Title: LS on Replacement of 23.121 for R4 onwards

Discussion : CN2 rapporteurs to check and eventually replace the reference in their specs.

Conclusion: Noted

N2-010152 : SA2 Type: LS IN for INFO from MCC (To: TSG-CN WG1, TSG-CN WG3, TSG-CN WG4, TSG-SA WG3, TSG -SA WG5   CC: TSG-CN   (NOT for CN2,-just as INFORMATION)) ,
Title: Removal of Visited Control S-CSCF option from the Rel 5 architecture

Discussion : Relevant if CN2 will work on IMS. The lates TS version may now be higher.

Conclusion:Noted

N2-010157 : SA1, Type: LS IN (TSG S1 (01) 241 / To: CN2),
Title: LS "Reply to LS on Support of earlier CAMEL phases"

Discussion : TSG SA WG1 asks **TSG CN WG2** to note the conclusions to always be backward compatibel. Furthermore, TSG SA WG1 asks TSG CN WG2 to draft the corresponding CR for stage 2 for CAMEL phase 4 (Release 5). The understanding is that CAMEL4 supports 2 and 3 while 1 is optional. The backward compatibility is regarding the capabilities (CSI), with explicit indication in application contexts.

Does this require any changes in stage 2 and 3 specifications,- to be discussed with tdoc 181.

Conclusion: Noted

N2-010178 : SA1, Type: LS IN (TSG S1#11(01)0244 / To: TSG-T2 / Cc: 3GPP TSG-CN2, 3GPP TSG-SA5) ,
Title: Reply LS on Support for prepaid in MMS for Release 4

Discussion : Nothing to do for the time beeing, until a service requirement exists in 22.078.

Conclusion: Noted

N2-010179 : SA1, Type: LS IN (TSG S1 (01) 248 / To: TSG-CN WG1, WG2, WG3, WG4, 3GPP TSG-S2 /
Cc: TSG-CN WG5),   Title: Response to NJ-010107 (LS "Control of IP multimedia services")

Discussion : Equals NJ-010121

Conclusion: Noted in joint session

5 Work item management & miscellaneous

N2-010198 : MCC, Type: INFO , Title: CN2 specifications listed with rapporteur after CN#10

Discussion : It was asked to have CAMEL4 specification drafts into this list. CAMEL4 23.078 and 29.078 are frequently changed by the rapporteurs and are not under version control until CN plenary has approved a 5.0.0 version.

The drafts will however be provided by the rapporteurs to MCC for storing in a Draft Spec folder for access by outside world, equally as agreed in CN3. The specification list provided in Tdoc 198 by MCC will go into the minutes of meeting, and since the draft specifications now will be included, the list will be referred to a date instead of beeing a list under resposibility of CN2 according to CN plenaries.

It was agreed that the TR 21.978 is not going to become a Rel-4 or Rel-5 TR.

Conclusion: Noted

5.1 IPR call reminder

IPR_Call.zip   The chairman reminded individual Members and persons making the technical proposals about their obligations under their respective Organizational Partners IPR Policy.

5.2 Work Item (WI) status review

N2-010199 : MCC, Type: Discussion , Title: Latest Workplan status from 010216 with CN2 tasks

Discussion :

Conclusion: Noted

N2-010217 : CN2 chair, Type: Workplan , Title:Progress of CAMEL work, changes to work plan status

Discussion : Comments from the meeting are included in this online editing of workstatus.

Conclusion: Agreed

6 CAMEL 3, Resolution of outstanding R99 issues

6.1 Miscellaneous

N2-010134 : 23.078 CR#269R3, Siemens, Type: CR, Title: Correction of reference

Discussion : Error discovered on page 5.

Conclusion : Revised to 205

N2-010205 : 23.078 CR#269R4, Siemens, Type: CR, Title: Correction of reference

Discussion :

Conclusion : Agreed

N2-010145 : 23.078, Rapporteur, Type: TS , Title: Draft 23.078 (R99) as the output of CN#16

Discussion :

Conclusion : Noted

N2-010147 : 23.078 CR#273, Nokia, Type: CR , Title: Correction of the Location Information IE

Discussion : Agreed to be an essential correction.

Conclusion :Revised to tdoc 207

N2-010207 : 23.078 CR#273R1, Nokia, Type: CR , Title: Correction of the Location Information IE

Discussion :

Conclusion : Agreed without presentation

<u>N2-010148</u> : 29.078 CR#149, Nokia, Type: CR, Title: Definition of the geographicalInformation parameter coding

Discussion : Discussed with tdoc 149.

Conclusion : Agreed

<u>N2-010149</u> : 29002 CR#xxx, Nokia, Type: CR, Title: Adding EXPORT definition for GeographicalInformation

Discussion : Where the original requirement come from is not known. Could be a need for different representations, but alignment with MAP with one code representation could yet be seen as correct. It was pointed out that errors exist in the 8 octet encoding. Mirror CR against Rel-4 MAP is needed. Handed to CN4 secretary by CN2 secretary. R99 MAP version must be checked, probably 3.7.2 instead of 3.7.0. It turned up to be 3.7.1 for R99 and 4.2.1 for Rel-4 MAP. 149 got N4-010427(agreed).

Conclusion : Endorsed

<u>N2-010202</u> : 29002 CR#xxx, Nokia, Type: CR, Title: Adding EXPORT definition for GeographicalInformation

Discussion : Category A. Endorsed without presentation and sent to CN4 as N4-010428 (agreed).

Conclusion : Endorsed without presentation

<u>N2-010174</u> : 23.078CR#???R?, Rapporteur, Type: CR,   Title: Correction of error implementing CR 23.078-118r2

Discussion : Earlier agreed CR is 268R1 in CN2#16. This CR is overlapping and is mostly editorial enhancements with R1. Such editorials must go into a new F category CR, not revise an earlier agreed CR.

Conclusion : Withdrawn

<u>N2-010175</u> : 23.078CR#280, Siemens, Type: CR, Title: Correction of SDL Set_Notification_Type

Discussion : VLR 'may have to send' on page 2 can not be modified by deleting 'have to' since this changes the relations. Marked as agreed by consensus should eventually be used. The change of IMSI attach changes the meaning, and original text should be maintained. Other wordings as well to be corrected.

Conclusion : Revised to208

<u>N2-010208</u> : 23.078CR#280, Siemens, Type: CR, Title: Correction of SDL Set_Notification_Type

Discussion :

Conclusion : Agreed without presentation

<u>N2-010181</u> : 29.002CR#???R?, Alcatel, Type: CR,   Title: Support of CAMEL phases

Discussion : How would this work for Camel phase 4 towards a phase 1 when the CR says that only highest CAMEL phase should be indicated and so support all earlier versions (1 is optional for 4)? Forward compatibility is needed. In earlier phases these bits were interpreted with one bit per phase supported so backward compatibility is not possible. How much new error handling in the HLR is needed to be specified ? New encoding of stage 1 (operator requirement) in the VLR needs a new decoding in the HLR. Support to keep the existing meaning of the bits.

Conclusion : Rejected

<u>N2-010183</u> : 23.008,   Alcatel, Type: CR, Title: Correction CR 23.008 CAMEL phase3

Discussion : Category F with subcat,-agreed by consensus must be indicated. Several places in coverpage, content and annexes needs modifications. MCC will provide 3GPP TS 21.101 where R99 specs are listed, to correct all the editors remarks on spec. existency.

Conclusion : Revised to tdoc 206

<u>N2-010206</u> : 23.008,   Alcatel, Type: CR, Title: Correction CR 23.008 CAMEL phase3

Discussion : Still editors note in the CR. The CR title is not informative enough. Nothing specific for CAMEL and therefore not needed with CN2 endorcement. Alcatel contributes directly to CN4. The WI should be TEI.

Conclusion : Noted

N2-010188 : 29.078 , Ericsson, Type: TS, Title: Draft 29.078 V3.7.0

Discussion :

Conclusion : Withdrawn

N2-010218 : 23.078 CR284 , Siemens, Type: CR, Title: Correction on checking DP criteria and sending VT/T-CSI

Discussion : DP12 shall not be sent to GMSC at DP Terminating_Attempt_Authorized, but the wording needs refinement.

Conclusion : Revised to221

N2-010221 : 23.078 CR284 R1, Siemens, Type: CR, Title: Correction on checking DP criteria and sending VT/T-CSI

Discussion : Essential correction

Conclusion : Agreed

6.2   ATM&ATSI

No contributions received.

6.3   GPRS

N2-010128 : Lucent, Type: Discussion , Title: CSE requested QoS Changesoperation

Discussion : Should stage 1 be updated,- which was favored by CN2. Lucent will contribute on this to next SA1.

Conclusion : Noted

N2-010129 : 22.078, Lucent, Type: INFO , Title: Clarification of PDP context QoS change notification to the CSE

Discussion : A proposed SA1 CR related to tdoc 128.

Conclusion : Noted

N2-010154 : 23.078CR#256R1, Nokia, Type: CR , Title: Clarification on APN usage in the ConnectGPRS operationGPRS procedure

Discussion : Not completely according to the principles layed down under 195 discussion. PDP type will be reported as received at PDPc activation. No problems identified if SCP does not know the PDP address (can be allocated after PDPc response). In page 8 the APN in ERB can not be mandatory since it might not be provide by MS, and the same for PDP type,- to be made Conditional. M and C descriptions shall not be deleted. If the PDP address is 0's it should not be sent.

 PDP type IE table to be changed with the name EndUserAddress,- which needs to be changed in 29.078 also. IDP description in 6.6.2.1 to be modified regarding APN not supported for secondary PDPc and Network initiated PDPc. APN in Connect may consist of NI, or NI+OI. APN can not be changed for a Network Initiated PDPc. (Connect). The operation can not be used! Nor for Secondary PDPc. IDP+ERB: APN is not sent for a secondary PDPc. Do not change.

Conclusion : Revised to 209

N2-010209 : 23.078CR#256R2, Nokia, Type: CR , Title: Clarification on APN usage in the ConnectGPRS operationGPRS procedure

Discussion : Tdoc N2-010092 from Beijing has same information, and since 92 has no other changes it is proposed to accept only this 209 and change the status of 092.

Conclusion : Agreed. Change 092 to rejected (earlier Siemens contribution from CN2#16).

<u>**N2-010155**</u> : 29.078CR#137R1, Nokia, Type: CR , Title: Clarification on APN usage in the ConnectGPRS operationGPRS procedure

Discussion : Related to 154. Should also remove Rel-4 comment on cover page. The new parameter part will change some wording. Some ASN.1 change to the dots.

Conclusion : Revised to 210

<u>**N2-010210**</u> : 29.078CR#137R2, Nokia, Type: CR , Title: Clarification on APN usage in the ConnectGPRS operationGPRS procedure

Discussion :

Conclusion : Agreed

<u>**N2-010195**</u> : Ericsson, Type: Discusssion , Title: Usage of APN in CAP

Discussion : Shall the SCP have possibility to modify the APN at all. Stage 1 states however a possibility to modify. More important seems to be when and how much modification is possible. Another view is to modify the MS provided APN before the GGSN selection is done. SCP could also provide the default SGSN APN. The procedure APN and GGSN selection procedure in 23.060 Annex A is not to be split, so either the modification is needed before or after that procedure.

DP for PDP context establishment will be to report to SCP what MS sends as APN is the temporary view of CN2, for people to check if it is acceptable.

SCP provided APN shall be subject o subscription checking is another working assumption.

SGSN reports for Secondary contexts with such an indicator and what it receives from the MS.

SCP can then send down any APN (also partial (NI) or none) and it replaces the MS provided APN completely, and will be the APN used in the APN and GGSN selection proccedure (the first and only time).

After PDPc Ack the actual responding GGSN address and charging ID is reported from SGSN to SCP, reporting the complete APN selected (if OI is available).

Note: Network initiated PDPc provides the MS with the APN to be used for the exact similar PDPc establishment.

The above working assumptions were agreed upon.

Checking item per item gave the following status and is the agreed wording used on the projector :

1.   Noted

2.   Noted

3.   Alcatel states that APN change is not OK. Lucent says that the SCP could provide the default APN. Decision: If user does not provide APN, no APN is sent to SCP. APN is sent to SCP as it comes from MS. **We'll confirm these principle later on in this meeting.**

4.   See item #3.

5.   No applicable item, see #3.

6.   For the secondary PDPc SGSN also reports what it gets from the MS vs For a secondary PDPc the SGSN reports the APN of the corresponding primary PDPc? The former alternative selected (Rogier). (Not possible to establish secondary PDPc prior to primary PDPc is established). The secodaryPDPc indication: enhancement of CAMEL3 agreed.

7.   Not applicable due to #3.

8.   The SCP does not always know complete APN due to #3 -> original proposal is not applicable. SCP can send partial APN (NI / NI+OI). The SCP provided partial APN replaces user provided APN completely (MS: NI+OI, SCP: NI => SCP-NI is used). SCP can change APN independently what is reported to the SCP.

9.   Not applicable any more; APN check is run for the first time.

10. Not applicaple

11. Agreed

12. Noted

13. SGSN shall report to the SCP the GGSN address received from the GGSN, not the original one. (GGSN address makes the ChargingID unique).

14. SGSN writes the GGSN received from the GGSN to the CDR. Not a CN2 issue.

-   The SCP provided APN should be allowed by subscription. Christian asks whether SCP could send any APN.

-    At PDPc Est. Ack DP the SGSN shall always report a complete selected APN to the SCP if available.

Conclusion : Noted and principles agreed as in the numbered list.

N2-010196 : 23.078CR#281, Ericsson, Type: CR , Title: Usage of APN in CAP

Discussion :

Conclusion : Withdrawn

N2-010197 : 29.078CR#154, Ericsson, Type: CR , Title: Usage of APN in CAP

Discussion :

Conclusion : Withdrawn

N2-010214 : 23.078CR#282, Ericsson, Type: CR , Title:Correction to vendor/operator specific GPRS charging response timer handling

Discussion : Should this be a note instead of paragraph,- warning to Service logic designers? Text could be modified, 'cancel' added and 'should' to be used instead of 'shall. Change to regular style. Agree off-line.

Conclusion : Revised to 220

N2-010220 : 23.078CR#282R1, Ericsson, Type: CR , Title:Correction to vendor/operator specific GPRS charging response timer handling

Discussion :

Conclusion : Agreed

6.4   SMS

N2-010215 : 23.078CR#283, Ericsson, Type: CR , Title: Marking of Location Number in InitialDP SMS as 'Conditional'

Discussion : Is this addition of feature compared to stage 1? Operator option to provide it or not, which can be OK for conditional.

Conclusion : Agreed

6.5   Call Related

N2-010125 : 23.078CR#272, Vodafone, Type: CR, Title: Corrections to Information Flow Definitions

- *Discussion :* The CR number was missing on the cover page, and is inserted. For CF a different message is used. CompleteCall may be a too late message for conveying CallRef# and GMSC#.

Conclusion : Agreed

N2-010156 : 29.078CR#151, Vodafone, Type: CR, Title: Removal of duplicate description in CWA

Discussion :

Conclusion : Agreed

N2-010158 : 23.078CR#274, Alcatel, Type: CR, Title: Correction of Interactions with Call Barring in CAMEL Phase 3.

Discussion : This CR removes barring checks from the dialled services procedures , which means that the dublicate check is removed, and no barring check done in CF calls.

Conclusion : Agreed

N2-010159 : 23.078CR#275, Alcatel, Type: CR, Title: Correction of CAMEL_MT_VMSC_Notfiy_CF

Discussion : The MSISDN checkboxes was removed earlier from CAMEL3 due to ease of comparing documents. But for DP12 this was not done due to the complexity. CWA could be used instead of Connect. Connect operation could be understood as a genuine connection/reconnect, and reintroduction of number checks is therefore not needed. CF should then not be invoked. If T_Busy is triggered as a TDP, the SCP does not even know the the MSISDN / included in redirecting#. CUG information can be modified only if CdPN is modified. Stated in CAMEL & CUG stage 1.

Conclusion : Rejected

N2-010160 : 23.078CR#276, Alcatel, Type: CR, Title: Correction of Interactions with Closed User Group in CAMEL Phase 3.

Discussion : Where in 22.078 is the contradiction with stage 2 described? On page 5 end of chapter 18.6. But the intention of this was not thought to introduce a number check, even if the stage 1 seems ambigous. On page 13 in the CR the check 'CAMEL_Modify_CUG_Info could now introduce looping. Postponed for more study during the meeting. It is not necessary to add CUG info to a non-CUG call, and clarification to Stage 1 on this should be done. At this meeting the functionality would not be introduced.

Conclusion : Rejected.   **AP: Remove MSISDN check in GMSC notify procedure with a CR.**

N2-010219 : 23.078CR#285, Alcatel, Type: CR, Title: Correction of Output Signals in Process Reconnected_MT_Call_VLR

Discussion :

Conclusion : Agreed

N2-010161 : 23.078CR#277, Alcatel, Type: CR, Title: Clarification and correction of Event Report BCSM information flow description

Discussion : The reason for change does not indicate any erronous cases. The proposal is seen as an enhancement, which seems unnecessary. An MO does not need about CF down the line for doing the charging, that is done by the CF leg. Too late for this feature in R99.

Conclusion : Rejected

N2-010162 : 23.078CR#278, Alcatel, Type: CR, Title: Clarification and correction of Event Report BCSM information flow description for O_Answer and T_Answer

Discussion : From MO and MF view the OR seems to be the same, and therefore the description should be the same. VMSC may be co-located with GMSC, then CF call is subject to BOR. -> MO & MF have same handling for BOR. DestinationAddress change from M to C is questionable since that address is always available,- also for VT case?. Should the word basic in front of OR be deleted?

Conclusion : Rejected

N2-010163 : 23.078CR#279, Alcatel, Type: CR, Title: Correction of Triggering after Call Gapping in CAMEL Phase 3.

Discussion :

Conclusion : Agreed

N2-010180 : 29.002CR#xxx, Alcatel, Type: CR, Title: D-CSI Correction Phase 3.

Discussion : Is all CSIs changed in a proper way ? Not completely, but can be taken when it turns up. This was allocated Tdoc N4-010469 (CR#261) and sent to CN4 before lunch on Thursday together with 203 that got N4-010470 (CR#262).

Conclusion : Endorsed

N2-010203 : 29.002CR#xxx, Alcatel, Type: CR, Title: D-CSI Correction Phase 3.

Discussion : Rel-4 mirror to tdoc 180, category A to be used and version to be checked.

Conclusion :Endorsed without presentation.

N2-010184 : 29.078CR#152, Alcatel, Type: CR, Title: Clarification and correction of Event Report BCSM information flow description

Discussion : Wrong title (should be the one of 185). Related to 162.

Conclusion : Rejected

N2-010185 : 29.078CR#153, Alcatel, Type: CR, Title: Clarification and correction of Event Report BCSM operation description for O_Answer and T_Answer

Discussion : Same content as 161 which was rejected.

Conclusion :Rejected

7 CAMEL for Release 4

7.1 General and miscellaneous Rel-4 issues

N2-010189 : 29.078, Ericsson, Type: TS, Title: Draft 29.078 V4.1.0

Discussion : Why not 4.0.0, but after the R99 CRs has been implemented,- plus the Rel-4 CRs agreed at CN#11.

Conclusion :Withdrawn

7.2 CAP over IP

N2-010053 : 29.078CR#150, CN4 (Ericsson), Type: CR ,   WI: SS7IP,   Title: Introduction of CAP over IP in accordance with SIGTRAN

Discussion : Endorsed by CN4 in Madrid ad-hoc February 2001. Backward compatibility was discussed. It does not affect protocol and only gives the option to use IP as different transport mechanism. Does the new specification 29.202 state anything on application.

Conclusion : Agreed

N2-010204 : Ericsson, Type: TS ,   WI: SS7IP,   Title:29.202 draft for information

Discussion : Provided for information

Conclusion : Noted

8 CAMEL4, Release 5

8.1 Review of CAMEL 4 Stage 1 draft, and/or situation

N2-010130 : Lucent, Type: INFO, Title: Draft Release 5 -TS 22.078 after SA1#11

Discussion : This is a draft version which can not be used to make CRs on.

Conclusion : Noted

8.2 Miscellaneous CAMEL 4 issues

N2-010135 : 23.078, Siemens, Type: CR, Title: Correction of reference

Discussion :

Conclusion : Agreed

N2-010146 : Rapporteur, Type: TS , Title: Draft 23.078 (R5) Vx.5.1

Discussion : Revised to 200 before the meeting.

Conclusion : Withdrawn

N2-010200 : Rapporteur, Type: TS , Title: Draft 23.078 (R5) Vx.5.2

Discussion : Revised from 146 (vx.5.1) before the meeting due to wrong implementation of 115 on applied charging.

Agreed that R99 rapporteurs are also going to be the Rel-4 rapporteurs for 23.078 (Christian officially with Sumio editing) and 29.078 (Rogier).

Conclusion : Noted

N2-010165 : 23.078, Alcatel, Type: CR, Title: Correction of O-BCSM in CAMEL Phase 4

Discussion : Check later on if there are impacts on implicit disarming.

Conclusion : Agreed

N2-010166 : 23.078, Alcatel, Type: CR, Title: Correction of CAMEL Alerting procedures

Discussion : Alerting is EDP-R so DPs can be armed. Also for UI. Proposed to save the answer, instead of leaving the DP. Postponed until later this meeting. Many checks needed on interactions.

Conclusion : Revised to 229

N2-010229 : 23.078, Alcatel, Type: CR, Title: Correction of CAMEL Alerting procedures

Discussion :

Conclusion : Agreed

N2-010167 : 23.018, Alcatel, Type: CR , Title: Correction of CAMEL Alerting procedures

Discussion : Page 10 process MT_CF_MSC, the ACM was skipped. Postponed as well, checking the principals in this CR and 166. ACM to be added on page 10. How is the Answer sent to the originating side ? Proably sent in a procedure on page 8, but this is error all over if it is found missing.

Conclusion : Agreed

N2-010182 : 23.008,   Alcatel, Type: CR , Title: Combined CR 23.008 CAMEL phase4

Discussion : Revised from 146 before the meeting.

Conclusion : Revised to 211

N2-010211 : 23.008,   Alcatel, Type: CR , Title: Combined CR 23.008 CAMEL phase4

Discussion : Revised from 182.

Conclusion : Postponed

N2-010190 : Ericsson, Type: TS , Title: Draft 29.078 V5.1.0

Discussion : The version should be produced after the March plenary as a Rel-4 spec.

Conclusion : Withdrawn

N2-010230 : 29.002, Huawei, Type: Discussion , Title: Enhance ATI and PSI operation

Discussion : There was no one from Huawei to present this so the chairman did it shortly No service requirement exists for this, and must be handled first before CN2 can continue on this topic, and firstly with stage 2 (23.078). Has circulated as long discussion on e-mail before the meeting. The SCP sends ATI to HLR to ask for location information from SGSN.

Seen as usefull from operators without supporting this actively. What information should be requested,- PDP context information is complex to retrieve while location and state might be easier. It was pointed out that CAMEL3 supports LCS, which however is optional. Overlapping or different ways of retrieving similar information should be avoided.

Conclusion : Noted

8.3   Optimum routeing

N2-010124 : 23.078 CR#xxxR1,   Vodafone ,   Type: CR,   Title: Corrections to CAMEL Support of OR

Discussion : Is it always the originating model that does the OR ? Also raised,- VMSC getting Connect interacting with late CF would initiate OR.

The internal-ISUP must convey this OR indication. VMSC and GMSC must be integrated, otherwise this OR request does not work. What happens if VT model get BOR request, does this disable ORLCF? A working assumption is that if SCP sends a flag it would prevent OR with late CF. Seems to require a lot of SDL changes.

Conclusion : Revised to 212

N2-010212 : 23.078 CR#xxxR2,   Vodafone ,   Type: CR,   Title: Corrections to CAMEL Support of OR

Discussion :

Conclusion : Postponed

8.4   Call Party Handling

N2-010120 : 23.018CR#xxxR2, Vodafone, Type: CR, Title: Introduction of CAMEL Phase 4

Discussion : Postponed from Beijing. Only for information since it is continously updated. To be provided to plenary together with CAMEL4 specs.

Conclusion : Noted

N2-010121 : 23.078 CR#xxxR1, Vodafone, Type: CR, Title: Change of name: Process gsmSSF to Process CS_gsmSSF

Discussion : The SDL changes should be added as propriate with the new name by the rapporteur.

Conclusion : Agreed

N2-010122 : 23.078 CR#xxxR1, Vodafone, Type: CR, Title: Introduction of CPH operations

Discussion : Revised to 173 before the meeting.

Conclusion : Withdrawn.

N2-010173 : 23.078 CR#xxxR2, Vodafone, Type: CR, Title: Introduction of CPH operations

Discussion : Revised from122 before the meeting. Page 50/51 contains copying mistake between dash and solid. Remove Int_Leg2 signal in process CAMEL_OCH_LEG1_MSC since that change needs some justification. On page 94 different clarifications were made, eg. Initial_Call_Attempt includes alerting pattern ? On page 96 the description to IE CAMEL Capability Handling were unclear. Overlapping information in Location info. parameter and Location number parameter in ICA and SRI,- no.

SRI to HLR with ICA directly to the SSF should be indicated as a CAMEL4 option. Call Reference number changed to Mandatory or make a note as for further study related to the discussion paper 150 about using existing user data. Numerous questions were raised on this document, before going into the comments phase,- where discussion continued on specific items.

Parameters not clearly understood should be excluded from the beginning to have an easier start, like VT-CSI, equal access information etc. Need to avoid overlapping with Alcatel contributions to this meeting in revised documents. But a common ground is needed now by having something into the draft on these topics now. Tdoc. 169 from Alcatel is the controversial issue towards this Vodafone approach.

Conclusion : Revised to216

N2-010216 : 23.078 CR#xxxR3, Vodafone, Type: CR, Title: Introduction of CPH operations

Discussion : CS ID in Connect shall be discussed later. Call gapping needs refinement, and is a possible inut to multi-CS state. Use of the process CAMEL_ICA_MSC and associated procedures are for further study. Is 'Continue' and 'Release' enough or must ICA plus 'Continue with argument' be included,- to be left for further study.

VLR check is only for additional parties. Dialled services is open for future meetings to discuss. NP and NC abbreviations to be used.

DefaultCallHandling: "Release" for call out-of-the-blue. "ReleaseCallSegment" for other cases. Open issue.

Suppressing of some parameters is not possible if ICA is sent to the GMSC.

Question to page 9 to which processes is used,- coming from 23.018. Further discussions resulted in items to consider further.

Conclusion : Revised to 222

N2-010222 : 23.078 CR#xxxR4, Vodafone, Type: CR, Title: Introduction of CPH operations

Discussion :

Conclusion : Agreed without presentation

N2-010123 : 23.018 CR#xxxR1, Vodafone, Type: CR, Title: Introduction of CPH operations

Discussion :

Conclusion : Agreed

N2-010132 : 29.078, Vodafone, Type: CR, Title: Introduction of CPH operations

Discussion : Better to make this stage 3 when stage 2 is more stable. Will be revised for the CAMEL ad-hoc in April, and comments beforehand is welcomed.

Conclusion : Noted

N2-010133 : 29.002, Vodafone, Type: CR, Title: Introduction of CPH operations

Discussion : Same comments as 132.

Conclusion : Noted

N2-010150 : Nokia, Type: Discussion , Title: Use of the served subscriber / existing call data when an additional party is created

Discussion : SCP create new data for additional party, and the question is which data is used or not.

Different scenarios exist, eg HLR interrogation, VLR provided etc., on how served subscriber user data needed/checked is obtained, and therefore should not be mandated.

Existing call data should be carried forward when available.

Signalling interworking/relathionship modification discussion to be delayed for studying related SPAN drafts (eg. see N2-000379). No backward compatibility issues with CAMEL3 for move and split leg. Annex B.4.0 of   is a possible source.

Conclusion : Noted

N2-010164 : Alcatel, Type: Discussion ,   Title: Further CPH Principles for CAMEL Modelling

Discussion : Update of a tdoc from CN2#16, intended to have comments from this meeting. Concern of having the CSCVstates introduced. Implications on protocol? Would not the SDLs describe the behavior similar to using states? This got some support and similar opposition.

In modelling frame section 3 bullet number 2 the text was not thought to be the ressult of the Beijing meeting. Bullet number 7 was also questioned regarding wether Connect should be allowed or not. Bullet number 3 was also questioned. Remains as 3 OPEN issues in the modelling work.

Section 4 bullet 2 was commented and withdrawn. And section 5 is on open issue list as well.

Conclusion : Noted

N2-010168 : 23.078, Alcatel, Type: CR ,   Title: Correction of Process CSA_gsmSSF

Discussion :

Conclusion : Noted

N2-010169 : 23.078, Alcatel, Type: CR ,   Title: Introduction of gsmSCF initiated new calls: SIC process

Discussion :

Conclusion : Noted

N2-010170 : 23.078, Alcatel, Type: CR ,   Title: Addition of Initiate New Call handling for Process CSA_gsmSSF

Discussion :

Conclusion : Noted

N2-010171 : 23.078, Alcatel, Type: CR ,   Title: Introduction of the Initiate Call Attempt and Continue With Argument Information Flow

Discussion :

Conclusion : Noted

N2-010172 : 23.078, Alcatel, Type: CR ,   Title: Interfaces and modelling for gsmSCF initiated new calls and parties

Discussion : In the last section 4.4.5 it is proposed to use CWA instead of Continue. Avoid this controversy by general wording. Introduce GMSC instead in the picture. Table 4.2 editorials to be made. HLR does not seem to be required in the picture.

Conclusion : Revised to 223

N2-010223 : 23.078, Alcatel, Type: CR , Title: Interfaces and modelling for gsmSCF initiated new calls and parties

Discussion :

Conclusion : Agreed without presentation

N2-010201 : Alcatel, Type: TS , Title:Provision of: Draft ES SPAN-120071 V0.0.2: Interworking between INAP/CAP and ISUP/DSS.1

Discussion : A short presentation was done.

Conclusion : Noted

8.5 DTMF Mid call procedure for MO and MT calls

N2-010191 : 23.078, Ericsson, Type: CR , Title: trigger criteria for mid-call event

Discussion : What is meant with detected digits or valid digits could be described on top of the table. It is questioned if partly detected digits is needed. But this CR is a very good start on mid call.

Conclusion : Agreed

N2-010192 : 29.078, Ericsson, Type: CR , Title: trigger criteria for mid-call event

Discussion :

Conclusion : Agreed

8.6 Provisioning of IP-based multimedia services / CAMEL applicability to media strems like VoIP

No contributions received

8.7 CAMEL control over MT SMS

N2-010140 : 23.078, Siemens, Type: CR, Title: Triggering criteria for MT-SMS

Discussion : The contributions on triggering criteria for MT-SMS is postponed to later this week due to unclear status on service requirements. Siemens contributes significantly with CRs in this area. SA1 should maybe decide wether this shall remain a requirement or not, and is not aligned with stage 2? Ask SA1 to confirm the inclusion or not in a LS ? Use of triggering criteria for MT-SMS was not gaining much support nor opposition in this meeting, but load problems was seen as an argue against it,- without gaining much. The whole feature should be an operator issue. CN2 could indicate the technical feasability to this issue, and SA1 decides on market desire for this or not. So until stage 1 is changed CN2 proceeds.

Will the criteria be enabling or disabling , and what is it ? The CR needs to address this. 2 T-PDU types exists (deliver and status), and the check of criteria needs to take this into account. Is the criteria mandatory,- no Optional.

Conclusion : Revised to224

N2-010224 : 23.078, Siemens, Type: CR, Title: Triggering criteria for MT-SMS

Discussion : At end of the meeting this CR was not available. Shall be delivered by e-mail end of Monday 5/3, otherwise it shall be provide to the next meeting.

Conclusion : Agreed without presenntation

N2-010141 : 29.078, Siemens, Type: CR, Title: Triggering criteria for MT-SMS

Discussion : If no criteria the rule is that the criteria is fulfilled.

Conclusion : Agreed

N2-010142 : 23.008,   Siemens, Type: CR, Title: Triggering criteria for MT-SMS

Discussion : Rewording needed.

Conclusion : Revised to 225

N2-010225 : 23.008,   Siemens, Type: CR, Title: Triggering criteria for MT-SMS

Discussion :

Conclusion : Agreed without presentation to be incorporated to the collective CR

N2-010143 : 23.016,   Siemens, Type: CR, Title: Triggering criteria for MT-SMS

Discussion : Not only triggering criteria included. Should highlight the changes. But this is now the latest collective CR.

Conclusion :Agreed

N2-010144 : 29.002,   Siemens, Type: CR, Title: Triggering criteria for MT-SMS

Discussion : Elipsis can exist for ENUMERATED with some exception handling specified. Matchtype (doing the enabling or disablin) is not needed and should be deleted, and additionally some naming changed. The CAMEL specifics should be minimal in 29.002. ASN.1 errors will be done by Rogier when incorporating this into the collective CR

Conclusion : Revised to 226

N2-010226 : 29.002,   Siemens, Type: CR, Title: Triggering criteria for MT-SMS

Discussion : At end of the meeting this CR was not available. Shall be delivered by e-mail end of Monday 5/3, otherwise it shall be provide to the next meeting.

Conclusion : Agreed without presentation to be incorporated to the collective CR

N2-010193 : 23.078, Ericsson, Type: CR , Title: Mobile Terminated SMS

Discussion :

Conclusion : Agreed

N2-010194 : 29.078, Ericsson, Type: CR , Title: Mobile Terminated SMS

Discussion : Table B2 contains also MO-SMS but that was accepted.

Conclusion : Agreed

8.8   Inclusion of flexibel tone injection

N2-010127 : 29.078, Lucent, Type: CR,   Title: Introduction of flexible tones in ApplyCharing Information Flow

Discussion : Should stage 2 names be used? The same difference between stage 2 and 3 existed in CAMEL3. Alignment will be done. Editing separate levels for different entities were questioned and thought to give the same functional flexibility. It was agreed to keep the format. Some bracket and editorial changes needed. Burstinterval of max 2 seconds was selected considering the total allowable burst play. Is the speech path in both directions injected ? No only one party can be done.

Conclusion : Revised to 213

N2-010213 : 29.078, Lucent, Type: CR,   Title: Introduction of flexible tones in ApplyCharing Information Flow

Discussion : Default value for burstInterval needed ? Probably 0 or 1 would be helpful. Note should mention that intervals are omitted if numer of bursts or tone is set to 1.

Conclusion : **Revised to 231**

N2-010231 : 29.078, Lucent, Type: CR, Title: Introduction of flexible tones in ApplyCharing Information Flow

Discussion :

Conclusion : **Agreed without presentation**

8.9 Charging notification to CSE

N2-010176 : 23.078, Siemens, Type: CR, Title: Introduction of Charging Notification

Discussion :

Conclusion : **Withdrawn**

N2-010177 : 29.078, Siemens, Type: CR, Title: Introduction of Charging Notification

Discussion :

Conclusion : **Withdrawn**

N2-010186 : C-DOT, Type: Discussion, Title: Charging Notification to CSE

Discussion : For evaluation in the meeting if RNC and ENC operation as per ETSI IN CS1 INAP could be used to report eg access charging to the CSE. No interaction with the MSC charging procedures. Some options are listed making implementation decisions difficult. Operator specific parameters is not to be done dynamically but on service level agreement for inter-PLMN. The octet string to be reported must have more specific content in order to define roaming agreements. Otherwise 2 operators may have conflicting codings. CS1 had this octetstring as it was used internal to operators. By not using the proposed operations the flexibility is reduced. Some detailing could be done and leave some optional ? These operations would require stage 2 with SDL additions. The gsmSSF should have possibility to reject a notification of charging it does not understand. For now the MT scenario is not included,- only the 'charged' party. The ENC operation can be multipel, and RNC/ENC can occure at any point during the call. The spontanity versus detection point were discussed as well. No implicit disarming is intended. Interop mode does not need to be included.

The majority of principals (ie. on the mechanism) were not rejected and CRs could be the next step taking into account the comments done in the meeting.

Conclusion : **Noted**

8.10 Enhancements of dialled services

N2-010187 : C-DOT, Type: Discussion, Title: Enhancements of dialled services

Discussion : Any of the 2 proposals preferred ? Both strategy are acceptable to C-DOT. The purpose of doing this new service is when no earlier service relationship exists, so feature interaction is avoided. An indicator in the IDP could maybe achieve the same thing. Another application context is another method to C-DOTs 2 alternatives, but was argued against and closed for future compatibility issues and towards CAMEL3.

No support to change CSIs.

The requirement is, in case a relationship with the CSE already exists at the time of service invocation at DP3, the dialogue at DP3 cannot be a call controlling dialogue. However, in case no relationship with any CSE exists at the point of next service invocation, a call controlling dialogue can be established. How is this resolved and who resolves it?

- Indication by CCF using parameter in the InitialDP is possible, with propriate gsmSSF state transition, and policing to be done in SCF or SSF. SCF may do the intelligence, but also implicitly in SSF to ensure corrective actions as in CAMEL3 as eg discarding operations in certain states.

Interworking with later TDPs and dialogues,- the same rules as today for SSF applies.

Conclusion : Noted

8.11   Provision of location information of called subscriber

N2-010136 : 23.078, Siemens, Type: CR,   Title: Provide Location information in case a terminating call is alerted.

Discussion : Location information at alerting can be different from location information at answer. Just refer to subclause instead of any CSI. CallAccepted is the DP name.

Conclusion : Revised to 227

N2-010227 : 23.078, Siemens, Type: CR,   Title: Provide Location information in case a terminating call is alerted.

Discussion :

Conclusion : Agreed without presentation

N2-010137 : 29.078, Siemens, Type: CR,   Title: Provide Location information in case a terminating call is alerted.

Discussion : Editorials (whereabouts, DP name, not refer to VT-CSI…)

Conclusion : Revised to 227

N2-010228 : 29.078, Siemens, Type: CR,   Title: Provide Location information in case a terminating call is alerted.

Discussion :

Conclusion : Agreed without presentation

8.12   Enhancements to CS mobility management reporting

No contributions received.

8.13   Notification of GPRS mobility management to CSE

N2-010138 : 23.078, Siemens, Type: CR,   Title: Enhancements to mobility management reporting

Discussion : Should notification be sent from SGSN when the Attach is rejected. What is stage 1 requiring,- also unsuccessfull cases ? This can be clarified later. CS and PS sections can be merged. The CS modifications was agreed to be left as they are in CAMEL3. It was argued to have a separate M-CSI for the PS since DP and triggering are different from CS side. Giving easier specification and more transparent implementations. Mixing CAMEL phases has also proved problematic, requiring many rules. A new separate CSI was agreed. Editorials. Periodic updates are left open for the time beeing.

Conclusion : Noted

N2-010139 : 29.078, Siemens, Type: CR,   Title: Enhancements to mobility management reporting

Discussion :

Conclusion : Withdrawn

9   Maintenance of earlier CAMEL phases

9.1   CAMEL phase 1

No contributions received.

9.2 CAMEL phase 2

No contributions received.

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10 Review of dates and hosts for future meetings

Documents to the server should be available Wednesday evening before the Newbury meeting.

CN2#17 gave the following mandate to the Newbury adHoc: **To change CAMEL4 related to CPH, and send out LS on behalf of CN2 related to CPH.**

Meeting schedule for 2001

3GPP Meeting	Date	Place	Host
TSG#11	**14-22 March 2001**	**USA, Palm Springs**	**T1P1**
N2-ad hoc (CPH for CAMEL4)	**3-5 April 2001**	**Newbury, UK**	**Vodafone**
N2#18	14-18 May 2001	Puerto Rico?,USA	
TSG#12	**13-21 June 2001**	**Stockholm, Sweden**	**Ericsson**
N2#19	09-13 July 2001	Dresden, Germany	Mannesmann
TSG#13	**26 Sep – 4 Oct 2001**	**Beijing, China**	**Lucent Technologies, CWTS**
N2#20	15-19 October 2001	Brighton?, UK	Vodafone, BT
N2#21	26-30 November 2001	US?	T.B.D
TSG#14	**12-20 December 2001**	**Kyoto?, Japan**	**T.B.D**

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11 Closing of the meeting **(12:00 Friday)**

Annex A   Participants list

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Mr. Khindri Anshul	C-DOT	3GPPMEMBER (ETSI)	IN	+91-11-4678975	anshul@cdotd.ernet.in	YES
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Organisation partner representative (ETSI)

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Annex B   Output Documents

Agreed Change Requests for CAMEL Phase 3

TDoc #	WI	Rel	Cat	Title	Spec	CR #	Rev	Version	Conclusion
N2-010209	CAMEL3	R99	F	Clarification on APN usage in the ConnectGPRS operation	23.078	256	2	3.7.0	Agreed
N2-010205	CAMEL3	R99	F	Correction of reference	23.078	269	4	3.7.0	Agreed
N2-010125	CAMEL3	R99	F	Corrections to Information Flow Definitions	23.078	272		3.7.0	Agreed
N2-010207	CAMEL3	R99	F	Correction of the Location Information IE	23.078	273	1	3.7.0	Agreed
N2-010158	CAMEL3	R99	F	Correction of Interactions with Call Barring in CAMEL Phase 3.	23.078	274		3.7.0	Agreed
N2-010163	CAMEL3	R99	F	Correction of Triggering after Call Gapping in CAMEL Phase 3.	23.078	279		3.7.0	Agreed
N2-010208	CAMEL3	R99	F	Correction of SDL Set_Notification_Type	23.078	280	1	3.7.0	Agreed
N2-010220	CAMEL3	R99	F	Correction to vendor/operator specific GPRS charging response timer handling	23.078	282	1	3.7.0	Agreed
N2-010215	CAMEL3	R99	F	Marking of Location Number in InitialDP SMS as 'Conditional'	23.078	283		3.7.0	Agreed
N2-010221	CAMEL3	R99	F	Correction on checking DP criteria and sending VT/T-CSI	23.078	284	1	3.7.0	Agreed
N2-010219	CAMEL3	R99	F	Correction of Output Signals in Process Reconnected_MT_Call_VLR	23.078	285		3.7.0	Agreed
N2-010210	CAMEL3	R99	F	Clarification on APN usage in the ConnectGPRS operation	29.078	137	2	3.6.0	Agreed
N2-010148	CAMEL3	R99	F	Definition of the geographicalInformation parameter coding	29.078	149		3.6.0	Agreed
N2-010156	CAMEL3	R99	F	Removal of duplicate description in CWA	29.078	151		3.6.0	Agreed
TDoc #	**WI**	**Rel**	**Cat**	**Title**	**Spec**	**CR #**	**Rev**	**Version**	**Conclusion**
N2-010153	SS7 IP	Rel-4	B	Introduction of CAP over IP in accordance with SIGTRAN	29.078	150		3.6.0	Agreed

CRs for e-mail agreement

None.

N4 Documents Endorsed by N2

TDoc #	WI	Rel	Cat	Title	Spec	CR #	Rev	Version	Conclusion
N2-010203	CAMEL3	Rel-4	A	D-CSI Correction	29.002			4.2.2	Endorsed
N2-010202	CAMEL3	Rel-4	A	Adding EXPORT definition for GeographicalInformation	29.002			4.2.2	Endorsed
N2-010180	CAMEL3	R99	F	D-CSI Correction	29.002			3.7.2	Endorsed
N2-010149	CAMEL3	R99	F	Adding EXPORT definition for GeographicalInformation	29.002			3.7.0	Endorsed

Approved Liaison Statement

None to be sent from CN2 this time.

Agreed and endorsed Change Requests for CAMEL Phase 4

TDoc #	WI	Rel	Cat	Title	Spec	CR #	Rev	Version	Conclusion
N2-010225	CAMEL4	Rel-5		Triggering criteria for MT-SMS	23.008				Agreed
N2-010143	CAMEL4	Rel-5		Triggering criteria for MT-SMS	23.016				Agreed
N2-010167	CAMEL4	Rel-5	F	Correction of CAMEL Alerting procedures	23.018			4.1.0	Agreed
N2-010123	CAMEL4	Rel-5	B	Introduction of CPH operations	23.018		1	4.1.0	Agreed
N2-010223	CAMEL4	Rel-5	B	Interfaces and modelling for gsmSCF initiated new calls and parties	23.078			x.5.1	Agreed
N2-010224	CAMEL4	Rel-5		Triggering criteria for MT-SMS	23.078				Agreed
N2-010227	CAMEL4	Rel-5		Provide Location information in case a terminating call is alerted.	23.078				Agreed
N2-010229	CAMEL4	Rel-5	F	Correction of CAMEL Alerting procedures	23.078			x.5.1	Agreed
N2-010135	CAMEL4	Rel-5		Correction of reference	23.078				Agreed
N2-010165	CAME	Rel-5	F	Correction of O-BCSM in CAMEL Phase 4	23.078			x.5.1	Agreed

TDoc #	Type	WI	Rel	Cat	Title	Spec			Version	CR #	Rev	Conclusion
		L4										
N2-010191	CAMEL4	Rel-5	B		trigger criteria for mid-call event	23.078			5.1.0			Agreed
N2-010193	CAMEL4	Rel-5	F		Mobile Terminated SMS	23.078			5.1.0			Agreed
N2-010121	CAMEL4	Rel-5	D		Change of name: Process gsmSSF to Process CS_gsmSSF	23.078			1	x.5.0		Agreed
N2-010222	CAMEL4	Rel-5	B		Introduction of CPH operations	23.078			4	x.5.0		Agreed
N2-010226	CAMEL4	Rel-5			Triggering criteria for MT-SMS	29.002						Agreed
N2-010231	CAMEL4	Rel-5			Introduction of flexible tones in ApplyCharing Information Flow	29.078						Agreed
N2-010228	CAMEL4	Rel-5			Provide Location information in case a terminating call is alerted.	29.078						Agreed
N2-010192	CAMEL4	Rel-5	B		trigger criteria for mid-call event	29.078			5.1.0			Agreed
N2-010194	CAMEL4	Rel-5	F		Mobile Terminated SMS	29.078			5.1.0			Agreed
N2-010141	CAMEL4	Rel-5			Triggering criteria for MT-SMS	29.078						Agreed

None Endorced

Annex C   List of Documents

TDoc #	Type	WI	Rel	Cat	Source	Title	Spec	Version	CR #	Rev	Conclusion
N2-010116	AGENDA	-			CN2 chairman	Proposed agenda	-				Agreed
N2-010117	AGENDA	-			CN2 chairman	Proposed document allocation	-				Agreed
N2-010118	LS IN				CN4	LS to LS on GERAN impacts on overall system architecture					Noted
N2-010119	LS IN				SA2	LS "Control of IP multimedia services"					Noted
N2-010120	CR	CAMEL4	Rel-5	B	Vodafone	Introduction of CAMEL Phase 4	23.018	4.1.0		2	Noted
N2-010121	CR	CAMEL4	Rel-5	D	Vodafone	Change of name: Process gsmSSF to Process CS_gsmSSF	23.078	x.5.0		1	Agreed
N2-010122	CR	CAMEL4	Rel-5	B	Vodafone	Introduction of CPH operations	23.078	x.5.0		1	Withdrawn.
N2-010123	CR	CAMEL4	Rel-5	B	Vodafone	Introduction of CPH operations	23.018	4.1.0		1	Agreed

N2-010124	CR	CAMEL4	Rel-5	C	Vodafone	Corrections to CAMEL Support of OR	23.078	x.5.0		1	Revised to 212
N2-010125	CR	CAMEL3	R99	F	Vodafone	Corrections to Information Flow Definitions	23.078	3.7.0	272		Agreed
N2-010126	REPORT				MCC	Meeting Report, TSG CN WG2#16, Beijing, China, 15 - 19 January 2001					Agreed
N2-010127	CR	CAMEL4	Rel-5		Lucent Technologies	Introduction of flexible tones in ApplyCharing Information Flow	29.078				Revised to 213
N2-010128	Discussion	CAMEL3			Lucent Technologies	CSE requested QoS Changes					Noted
N2-010129	Information	CAMEL3	R99		Lucent Technologies	Clarification of PDP context QoS change notification to the CSE	22.078				Noted
N2-010130	Information	CAMEL4			Lucent Technologies/22.078 rapporteur	Draft Release 5 -TS 22.078 after SA1#11					Noted
N2-010131	Information	CAMEL4			Lucent Technologies/22.078 Rapporter	Report of SA1 CAMEL Ad Hoc 31Jan - 1 Feb					Noted
N2-010132	CR	CAMEL4	Rel-5	B	Vodafone	Introduction of CPH operations	29.078				Noted
N2-010133	CR	CAMEL4	Rel-5	B	Vodafone	Introduction of CPH operations	29.002				Noted
N2-010134	CR	CAMEL3	R99	F	Siemens	Correction of reference	23.078	3.7.0	269	3	Revised to 205
N2-010135	CR	CAMEL4	Rel-5		Siemens	Correction of reference	23.078				Agreed
N2-010136	CR	CAMEL4	Rel-5		Siemens	Provide Location information in case a terminating call is alerted.	23.078				Revised to 227
N2-010137	CR	CAMEL4	Rel-5		Siemens	Provide Location information in case a terminating call is alerted.	29.078				Revised to 228
N2-010138	CR	CAMEL4	Rel-5		Siemens	Enhancements to mobility management reporting	23.078				Noted
N2-010139	CR	CAMEL4	Rel-5		Siemens	Enhancements to mobility management reporting	29.078				Withdrawn
N2-010140	CR	CAMEL4	Rel-5		Siemens	Triggering criteria for MT-SMS	23.078				Revised to 224
N2-010141	CR	CAMEL4	Rel-5		Siemens	Triggering criteria for MT-SMS	29.078				Agreed
N2-010142	CR	CAMEL4	Rel-5		Siemens	Triggering criteria for MT-SMS	23.008				Revised to 225
N2-	CR	CA	Rel-5		Siemens	Triggering criteria for MT-SMS	23.016				Agreed

010143		ME L4									
N2-010144	CR	CA ME L4	Rel-5		Siemens	Triggering criteria for MT-SMS	29.002				Revised to 226
N2-010145	TS	CA ME L3	R99		Rapporteur	Draft 23.078 (R99) as the output of CN#16	23.078				Noted
N2-010146	TS	CA ME L4	Rel-5		Rapporteur	Draft 23.078 (R5) Vx.5.1	23.078				Withdrawn
N2-010147	CR	CA ME L3	R99	F	Nokia	Correction of the Location Information IE	23.078	3.7.0	273		Revised to 207
N2-010148	CR	CA ME L3	R99	F	Nokia	Definition of the geographicalInformation parameter coding	29.078	3.6.0	149		Agreed
N2-010149	CR	CA ME L3	R99	F	Nokia	Adding EXPORT definition for GeographicalInformation	29.002	3.7.0			Endorced
N2-010150	DISC USSI ON	CA ME L4	Rel-5		Nokia	Use of the served subscriber / existing call data when an additional party is created					Noted
N2-010151	LS IN				SA2	LS on Replacement of 23.121 for R4 onwards					Noted
N2-010152	INFO				SA2	Removal of Visited Control S-CSCF option from the Rel 5 architecture					Noted
N2-010153	CR	SS7 IP	Rel-4	B	CN4 (Ericsson)	Introduction of CAP over IP in accordance with SIGTRAN	29.078	3.6.0	150		Agreed
N2-010154	CR	CA ME L3	R99	F	Nokia	Clarification on APN usage in the ConnectGPRS operation	23.078	3.7.0	256	1	Revised to 209
N2-010155	CR	CA ME L3	R99	F	Nokia	Clarification on APN usage in the ConnectGPRS operation	29.078	3.6.0	137	1	Revised to 210
N2-010156	CR	CA ME L3	R99	F	Vodafone	Removal of duplicate description in CWA	29.078	3.6.0	151		Agreed
N2-010157	LS IN				SA1	LS "Reply to LS on Support of earlier CAMEL phases"					Noted
N2-010158	CR	CA ME L3	R99	F	Alcatel	Correction of Interactions with Call Barring in CAMEL Phase 3.	23.078	3.7.0	274		Agreed
N2-010159	CR	CA ME L3	R99	F	Alcatel	Correction of CAMEL_MT_VMSC_Notfiy_C F	23.078	3.7.0	275		Rejected
N2-010160	CR	CA ME L3	R99	F	Alcatel	Correction of Interactions with Closed User Group in CAMEL Phase 3.	23.078	3.7.0	276		Rejected
N2-010161	CR	CA ME L3	R99	F	Alcatel	Clarification and correction of Event Report BCSM information flow description	23.078	3.7.0	277		Rejected
N2-010162	CR	CA ME L3	R99	F	Alcatel	Clarification and correction of Event Report BCSM information flow description for O_Answer and T_Answer	23.078	3.7.0	278		Rejected
N2-010163	CR	CA ME L3	R99	F	Alcatel	Correction of Triggering after Call Gapping in CAMEL Phase 3.	23.078	3.7.0	279		Agreed

N2-010164	Discussion	CAMEL4	Rel-5		Alcatel	Further CPH Principles for CAMEL Modelling					Noted
N2-010165	CR	CAMEL4	Rel-5	F	Alcatel	Correction of O-BCSM in CAMEL Phase 4	23.078	x.5.1			Agreed
N2-010166	CR	CAMEL4	Rel-5	F	Alcatel	Correction of CAMEL Alerting procedures	23.078	x.5.1			Revised to 229
N2-010167	CR	CAMEL4	Rel-5	F	Alcatel	Correction of CAMEL Alerting procedures	23.018	4.1.0			Agreed
N2-010168	CR	CAMEL4	Rel-5	F	Alcatel	Correction of Process CSA_gsmSSF	23.078	x.5.1			Noted
N2-010169	CR	CAMEL4	Rel-5	B	Alcatel	Introduction of gsmSCF initiated new calls: SIC process	23.078	x.5.1			Noted
N2-010170	CR	CAMEL4	Rel-5	B	Alcatel	Addition of Initiate New Call handling for Process CSA_gsmSSF	23.078	x.5.1			Noted
N2-010171	CR	CAMEL4	Rel-5	B	Alcatel	Introduction of the Initiate Call Attempt and Continue With Argument Information Flow	23.078	x.5.1			Noted
N2-010172	CR	CAMEL4	Rel-5	B	Alcatel	Interfaces and modelling for gsmSCF initiated new calls and parties	23.078	x.5.1			Revised to 223
N2-010173	CR	CAMEL4	Rel-5	B	Vodafone	Introduction of CPH operations	23.078	x.5.0		2	Revised to 216
N2-010174	CR	CAMEL3	R99	F	Rapporteur	Correction of error implementing CR 23.078-118r2	23.078	3.7.0			Withdrawn
N2-010175	CR	CAMEL3	R99	F	Siemens	Correction of SDL Set_Notification_Type	23.078	3.7.0	280		Revised to 208
N2-010176	CR	CAMEL4	Rel-5		Siemens	Introduction of Charging Notification	23.078				Withdrawn
N2-010177	CR	CAMEL4	Rel-5		Siemens	Introduction of Charging Notification	29.078				Withdrawn
N2-010178	LS IN				SA1	Reply LS on Support for prepaid in MMS for Release 4					Noted
N2-010179	LS IN				SA1	Response to NJ-010107 (LS "Control of IP multimedia services")					Noted
N2-010180	CR	CAMEL3	R99	F	Alcatel	D-CSI Correction	29.002	3.7.2			Endorced
N2-010181	CR	CAMEL3	R99	F	Alcatel	Support of CAMEL phases	29.002	3.7.2			Rejected
N2-010182	CR	CAMEL4	Rel-5		Alcatel	Combined CR 23.008 CAMEL phase4	23.008				Revised to 211
N2-010183	CR	CAMEL3	R99		Alcatel	Correction CR 23.008 CAMEL phase3	23.008				Revised to 206
N2-	CR	CA	R99	F	Alcatel	Clarification and correction of	29.078	3.6.0	152		Rejected

010184		ME L3				Event Report BCSM operation description					
N2-010185	CR	CA ME L3	R99	F	Alcatel	Clarification and correction of Event Report BCSM operation description for O_Answer and T_Answer	29.078	3.6.0	153		Rejected
N2-010186	Discu ssion	CA ME L4	Rel-5		C-DOT	Charging Notification to CSE					Noted
N2-010187	Discu ssion	CA ME L4	Rel-5		C-DOT	Enhancements of dialled services					Noted
N2-010188	TS	CA ME L3	R99		Ericsson	Draft 29.078 V3.7.0	29.078				Withdrawn
N2-010189	TS	CA ME L3	Rel-4		Ericsson	Draft 29.078 V4.1.0	29.078				Withdrawn
N2-010190	TS	CA ME L4	Rel-5		Ericsson	Draft 29.078 V5.1.0	29.078				Withdrawn
N2-010191	CR	CA ME L4	Rel-5	B	Ericsson	trigger criteria for mid-call event	23.078	5.1.0			Agreed
N2-010192	CR	CA ME L4	Rel-5	B	Ericsson	trigger criteria for mid-call event	29.078	5.1.0			Agreed
N2-010193	CR	CA ME L4	Rel-5	F	Ericsson	Mobile Terminated SMS	23.078	5.1.0			Agreed
N2-010194	CR	CA ME L4	Rel-5	F	Ericsson	Mobile Terminated SMS	29.078	5.1.0			Agreed
N2-010195	Discu ssion	CA ME L3			Ericsson	Usage of APN in CAP					Noted
N2-010196	CR	CA ME L3	R99	F	Ericsson	Usage of APN in CAP	23.078	3.7.0	281		Withdrawn
N2-010197	CR	CA ME L3	R99	F	Ericsson	Usage of APN in CAP	29.078	3.6.0	154		Withdrawn
N2-010198	INFO				MCC	CN2 specifications listed with rapporteur after CN#10					Noted
N2-010199	Discu ssion				MCC	Latest Workplan status from 010216 with CN2 tasks					Noted
N2-010200	TS	CA ME L4	Rel-5		Rapporteur	Draft 23.078 (R5) Vx.5.2	23.078				Noted
N2-010201	TS				Alcatel	Provision of: Draft ES SPAN-120071 V0.0.2: Interworking between INAP/CAP and ISUP/DSS.1					Noted
N2-010202	CR	CA ME L3	Rel-4	A	Nokia	Adding EXPORT definition for GeographicalInformation	29.002	4.2.2			Endorced
N2-010203	CR	CA ME L3	Rel-4	A	Alcatel	D-CSI Correction	29.002	4.2.2			Endorced
N2-	TS	SS7			Ericsson	29.202 draft for information					Noted

010204		IP										
N2-010205	CR	CAMEL3	R99	F	Siemens	Correction of reference		23.078	3.7.0	269	4	Agreed
N2-010206	CR	CAMEL3	R99		Alcatel	Correction CR 23.008 CAMEL phase3		23.008				Noted
N2-010207	CR	CAMEL3	R99	F	Nokia	Correction of the Location Information IE		23.078	3.7.0	273	1	Agreed
N2-010208	CR	CAMEL3	R99	F	Siemens	Correction of SDL Set_Notification_Type		23.078	3.7.0	280	1	Agreed
N2-010209	CR	CAMEL3	R99	F	Nokia	Clarification on APN usage in the ConnectGPRS operation		23.078	3.7.0	256	2	Agreed
N2-010210	CR	CAMEL3	R99	F	Nokia	Clarification on APN usage in the ConnectGPRS operation		29.078	3.6.0	137	2	Agreed
N2-010211	CR	CAMEL4	Rel-5		Alcatel	Combined CR 23.008 CAMEL phase4		23.008				Postponed
N2-010212	CR	CAMEL4	Rel-5	C	Vodafone	Corrections to CAMEL Support of OR		23.078	x.5.0		2	Postponed
N2-010213	CR	CAMEL4	Rel-5		Lucent Technologies	Introduction of flexible tones in ApplyCharing Information Flow		29.078				Revised to 231
N2-010214	CR	CAMEL3	R99	F	Ericsson	Correction to vendor/operator specific GPRS charging response timer handling		23.078	3.7.0	282		Revised to 220
N2-010215	CR	CAMEL3	R99	F	Ericsson	Marking of Location Number in InitialDP SMS as 'Conditional'		23.078	3.7.0	283		Agreed
N2-010216	CR	CAMEL4	Rel-5	B	Vodafone	Introduction of CPH operations		23.078	x.5.0		3	Revised to 222
N2-010217	Work plan				CN2 chair	Progress of CAMEL work, changes to work plan status						Agreed
N2-010218	CR	CAMEL3	R99	F	Siemens	Correction on checking DP criteria and sending VT/T-CSI		23.078	3.7.0	284		Revised to 221
N2-010219	CR	CAMEL3	R99	F	Alcatel	Correction of Output Signals in Process Reconnected_MT_Call_VLR		23.078	3.7.0	285		Agreed
N2-010220	CR	CAMEL3	R99	F	Ericsson	Correction to vendor/operator specific GPRS charging response timer handling		23.078	3.7.0	282	1	Agreed
N2-010221	CR	CAMEL3	R99	F	Siemens	Correction on checking DP criteria and sending VT/T-CSI		23.078	3.7.0	284	1	Agreed
N2-010222	CR	CAMEL4	Rel-5	B	Vodafone	Introduction of CPH operations		23.078	x.5.0		4	Agreed
N2-010223	CR	CAMEL4	Rel-5	B	Alcatel	Interfaces and modelling for gsmSCF initiated new calls and parties		23.078	x.5.1			Agreed
N2-010224	CR	CAMEL4	Rel-5		Siemens	Triggering criteria for MT-SMS		23.078				Agreed

N2-010225	CR	CAMEL4	Rel-5		Siemens	Triggering criteria for MT-SMS	23.008				Agreed
N2-010226	CR	CAMEL4	Rel-5		Siemens	Triggering criteria for MT-SMS	29.002				Agreed
N2-010227	CR	CAMEL4	Rel-5		Siemens	Provide Location information in case a terminating call is alerted.	23.078				Agreed
N2-010228	CR	CAMEL4	Rel-5		Siemens	Provide Location information in case a terminating call is alerted.	29.078				Agreed
N2-010229	CR	CAMEL4	Rel-5	F	Alcatel	Correction of CAMEL Alerting procedures	23.078	x.5.1			Agreed
N2-010230	Discussion	CAMEL3			Huawei Technologies	Enhance ATI and PSI operation	29.002				Noted
N2-010231	CR	CAMEL4	Rel-5		Lucent Technologies	Introduction of flexible tones in ApplyCharing Information Flow	29.078				Agreed

Annex D   CN2 spesifications/drafts list at 2nd March 2001

Type	Number	Title	Rel	current vers	WG prime	WG other	rapporteur	MCC person
	03.78	CAMEL Phase 2; Stage 2	R1996	5.8.0	N2	-	LANTELME, Isabelle	JORGENSEN, Per Johan
	03.78	CAMEL Phase 2; Stage 2	R1997	6.8.0	N2	-	LANTELME, Isabelle	JORGENSEN, Per Johan
	03.78	CAMEL Phase 2; Stage 2	R1998	7.5.0	N2	-	LANTELME, Isabelle	JORGENSEN, Per Johan
	09.78	CAMEL Application Part phase 2 (stage 3)	R1996	5.7.0	N2	-	NOLDUS, Rogier	JORGENSEN, Per Johan
	09.78	CAMEL Application Part phase 2 (stage 3)	R1997	6.5.0	N2	-	NOLDUS, Rogier	JORGENSEN, Per Johan
	09.78	CAMEL Application Part phase 2 (stage 3)	R1998	7.1.0	N2	-	NOLDUS, Rogier	JORGENSEN, Per Johan
TR	21.978	Feasibility Technical Report – CAMEL Control of VoIP Services	R1999	3.0.0	N2	-	SMITH, David	JORGENSEN, Per Johan
TS	23.078	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3 - Stage 2	R1999	3.7.0	N2	-	HOMANN, Christian	JORGENSEN, Per Johan
TS	29.078	CAMEL; Stage 3	R1999	3.6.0	N2	-	NOLDUS, Rogier	JORGENSEN, Per Johan
DRAFT	23.078	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3 - Stage 2	Rel-5	x.5.2	N2	-	HOMANN, Christian (Sumio edits)	
DRAFT	29.078	CAMEL; Stage 3	Rel-5	5.1.0???? (Shall be 0.x.y?)	N2	-	NOLDUS, Rogier	

Annex E Joint meeting between CN1/2/3/4 all Tuesday afternoon 27th March

The documents can be found at:
http://www.3gpp.org/ftp/TSG_CN/Joint_Meetings/Sophia_Feb_01/Joint_CN1_CN2_CN3_CN4_02/Docs/

Agenda item title	Tdoc NJ-01	Title	Spec.	Source	Result
Release 5 Tue 27.02.2001					24.228 related issues will be discussed together with the interested delegates from the other CN WGs in Tuesday afternoon 27.02.2001 right after lunch
Opening & agenda	0115	**Agenda**		CN1 Chairman	Agreed.
	0149	Chairman's report		CN1 Chairman	Provided at the closing time
Input liaisons N1-010406	0119	Reply to LS on "Control of IP multimedia services" (NJ-010107)	23.218	CN5	Noted. • How can a TS such as 23.218 refer to 29-series TR (which is not maintained in later releases)? • -> One possibility is that the TR or some part of it is converted into a TS later. • CN5 is responsible within 3GPP for the definition of Application Programming Interfaces (APIs) for Open Service Access (OSA). • They also acknowledge that they need to consider the architecture decisions by SA2 • The intention is to specify the APIs in TS 29.198, and the mapping of APIs to network protocols in TR 29.998. Hence no joint meetings with the other CN WGs are proposed. CN5 propose that 23.218 should refer to 29-series in OSA related issues rather than redefining items which are covered by CN5. Therefore CN5 would like to be kept informed on the development of 23.218.
N1-010341	0120	LS reply on CN3 LS "requesting clarification on interworking between IM domain and CS networks"	24.228	SA1	Noted. SA1 to CN3 with copy to CN1 It shall be possible to have basic voice calls between IMS users and users in CS domain/PSTN-style networks and SA1 has produced a CR to IMS stage 1 (22.228) to clarify this issue.

					• CN3 was invited to align their Rel-5 work items with the new requirement. • 24.228 does already cover some interworking signalling flows. CN3 to study the existing 24.228 signalling flows and to comment from their perspectiv Are any new flows needed.
	0121	Response to NJ-010107 (LS "Control of IP multimedia services")	23.218	SA1	Noted.
	0122	LS "Control of IP multimedia services"	23.218	SA2	Noted.
S2-010042r2 N1-010298	0146	Response LS on clarification on QoS work distribution		SA2	Noted. • CN3 has already seen this LS and they would like to have the responsibility of Gi interface. • CN3 needs more detailed signalling flows in 24.228 t do their QoS work. Later revision of N1-010249 after email approval. SA2 to CN3, CC: CN1, CN4. SA2 to CN3 with CC to CN1 • Bearer level QoS discussion between SA2 and CN3. Is ther any CN1 related issue, have we got all the necessary code points present in Qos IE? • Allocation of IM work to CN WGs • Which WG owns P-CSCF – GGSN (Gi) interface? SA2 tdoc S2-010042
SIP call control protocol for the IM CN subsystem **24.228 related documents**		All building blocks under feature ID 1273			• Project plan defines milestone "stage 3 for basic calls under ID 1673 for 3/01. Any comment on that milestone for TSGN #11?
N1-010352	0123	Network initiated de-registration	24.228	Nokia	Agreed. • Having accepted this approach to use NOTIFY metho to indicate network initiated de-registration adds a dependency to IETF draft defining NOTIFY method. The WID needs to be updated to indicate this.
N1-010353	0124	Routing of session initiation with called public user ID in E.164 format	24.228	Nokia	Agreed in principle. CN1 to check whether the support of ENUM numbering i mandatory or not. Align this with stage 2 in 23.228.
N1-010379	0140	Proposed flows for Registration exception conditions	24.228	Lucent	Revised to NJ-010144
N1-010380	0141	Proposed flows for Session Initiation exception conditions	24.228	Lucent	Revised to NJ-010145
N1-010416	0142	Use of the Proxy-Require header in association with the Remote-Party-ID header in	24.228	Lucent	Agreed.

		24.228			
N1-010425	0143	Re-Registration Signalling Flows update – S-CSCF determination	24.228	Motorola inc	Agreed.
N1-010435	0144	Proposed flows for Registration exception conditions	24.228	Motorola, Lucent	Agreed the principle with the exception below. • The first case does not seem relevant as that will be blocked in GPRS level already with PLMN not allow or PLMN not allowed for GPRS services. The originator is invited to provide draft flows for the proposed exceptional cases. Revision of NJ-010140
N1-010436	0145	Proposed flows for Session Initiation exception conditions	24.228	Motorola, Lucent	Agreed the principle with the exception below. The originator is invited to provide draft flows for the proposed exceptional cases. Revision of NJ010141
N1-010371	0147	24.228v030	24.228	Ericsson,NortelNetworks,Motorola	Noted. This document contains the decisions made in CN1 – SA2 SIP joint meeting.
23.218 related documents					
	0116	**TS 23.218 on IP Multimedia (IM) Session Handling**	23.218	BT	Noted. For information, the same version as in the previous CN WG joint meeting in Beijing.
	0117	**Mapping of SIP methods to CAMEL Basic Call State Model**		BT	Agreed to add the proposed section to the main body of 23.218 but with the request that the open issues need to be clarified in later changes to the document. • Splitting section 6 to a separate document for CN2 to maintain should be studied when 23.228 has become more stable.
	0118	**Message routing for SIP based Service Platform**	23.218	Siemens	Noted. • Two alternative proposals to use SIP at S-CSCF to service platform interface. CSCF to act as a proxy towards the service platform or SUBSCRIBE to even which are then NOTIFYed by the CSCF.
	0148	**23.228 V. 1.8.0**	23.218	Rapporteur	Noted.
LS out					None.