3GPP TSG-CN Meeting #22   **NP-030521**

10th - 12th December. Maui, Hawaii.

Source:	**MCC**
Title:	**CN2#31 Draft meeting report**
Agenda item:	**6.2.1**
Document for:	**Information**

DRAFT Meeting Report, version 1.3~~210~~.0

TSG CN WG2#31
Bangkok, Thailand

27 –31 October, 2003

Chairman: Keijo Palviainen (Nokia)

MCC support: Andrijana Jurisic(ETSI)

Hosts: Japanese Friends of 3GPP

List of participants:	Annex A
Output documents	Annex B
Tdoc list (incl. the status)	Annex C

Documents could be found on the 3GPP-server:

ftp://ftp.3gpp.org/TSG_CN/WG2_camel/Plenary/TSGN2_31_Bangkok/Docs

1 Opening of the meeting and approval of the agenda

N2-030473 : CN2 chairman, Title: Proposed meeting agenda

Discussion :

Conclusion: approved

2 Allocation of documents to agenda items

N2-030474: CN2 chairman, Title: Allocation of documents to agenda items

Discussion:

Conclusion: noted

3 Reports

N2-030475: MCC, Title: CN2#30 Draft meeting report

Discussion:

Conclusion: approved

N2-030476: MCC, Title: CN#21 Draft meeting report

Discussion:

Conclusion: noted

4 Input Liaison Statements

N2-030477: Source: CN4, Type: LS IN , Title: LS on Clarification on Presence Service Matters

Summary:

In the CN2/CN4 joint meeting in Sophia Antipolis 27th Aug 2003, the following issues were raised in the discussion of Presence service:

certain mechanisms defined for CAMEL could be reused for the non-IMS Presence service. For example, AnyTimeInterrogation mechanism is available for the fetching procedure in the Presence service.

If CAMEL features are definitely needed for PLMN operators to realise the Presence service in Release 6, CAMEL phase 4 becomes a mandatory feature for operators wishing to provide the service. CN4 asks SA1 and SA2 whether the non-IMS Presence service should be independent of CAMEL or is it acceptable that certain mechanisms defined for CAMEL shall be used to realise the Presence service?

CN4 asks SA2 for guidance on how the signalling messages are routed in the PLMN for the Presence service. More specifically, CN4 asks SA2 whether the Presence Network Agent is defined as a totally separate logical entity in its own physical node, or it is defined as a logical entity which can be collocated with another logical entity in the same physical node and share the same MAP interface. CN4 asks this question as CN4 is currently debating whether or not a new Sub-System Number (SSN) should be allocated to the PNA or whether it can share the same SSN as the gsmSCF.

CN4 asks SA2 if the understanding that the Ph interface is defined for both MAP and the Sh reference point is correct and clarify the stage 2 in this respect?

Discussion:
CN2 chairman: it is not clear whether CAMEL is needed to have Presence service. It is a service requirement issue, therefore CN2, CN4 and SA2 would expect for SA1 view.

SA1 delegation presented the draft of the reply to this LS during the CN2-SA1 Joint meeting in S1-021222.

It was discussed in CN2 that if Presence service is relying on CAMEL, then the certain changes would be needed in CAMEL specifications. This service issue shall be decided by SA1.

During the CN2- SA1 Joint meeting SA1 delegation forwarded the SA1 opinion that requirements for presence are independent of any other service. According to SA1 dependence between CAMEL and Presence appear because of the architectural point of view (SA2 defined that CAMEL functionality shall be used). According to SA1, there is no need that Presence depends on CAMEL.

According to CN2 and CN4, it should be SA1 decision whether CAMEL is required if Presence is supported.

According to SA1 if there is no dependency, that would be fully roaming capable service. It's not possible for one operator to mandate the support of one service to another operator.

S1-021222 was noted in CN2 and the SA1 handled further the document in SA1 plenary.

Conclusion: noted

5 Work item management & miscellaneous

Status of CN2 specifications and drafts

Type	Number	Title	Rel	curent vers	WG	rapporteur
TS	03.78	CAMEL Phase 1; Stage 2	R1996	5.8.0	N2	LANTELME, Isabelle
TS	03.78	CAMEL Phase 2; Stage 2	R1997	6.11.0	N2	LANTELME, Isabelle
TS	03.78	CAMEL Phase 2; Stage 2	R1998	7.8.0	N2	LANTELME, Isabelle
TS	09.78	CAMEL Application Part phase 1 (stage 3)	R1996	5.7.0	N2	NOLDUS, Rogier
TS	09.78	CAMEL Application Part phase 2 (stage 3)	R1997	6.5.0	N2	NOLDUS, Rogier
TS	09.78	CAMEL Application Part phase 2 (stage 3)	R1998	7.1.0	N2	NOLDUS, Rogier
TR	21.978	Feasibility Technical Report – CAMEL Control of VoIP Services	R1999	3.0.0	N2	SMITH, David
TS	23.078	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3 - Stage 2	R1999	3.17.0	N2	HOMANN, Christian
TS	23.078	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3 - Stage 2	Rel-4	4.10.0	N2	HOMANN, Christian
TS	29.078	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) specification	R1999	3.17.0	N2	NOLDUS, Rogier
TS	29.078	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) specification	Rel-4	4.10.0	N2	NOLDUS, Rogier
TS	23.078	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 4 - Stage 2	Rel-5	5.5.1	N2	SUMIO, Myagava
TS	29.078	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase; CAMEL Application Part (CAP) specification	Rel-5	5.5.0	N2	NOLDUS, Rogier
TS	23.278	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 4 - Stage 2; IM CN Interworking	Rel-5	5.4.0	N2	Angelica Remoquillo
TS	29.278	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 4;CAMEL Application Part (CAP) specification for IP Multimedia Subsystems (IMS)	Rel-5	5.4.0	N2	Angelica Remoquillo

5.1 IPR call reminder

The chairman made the following call for IPRs, and asked ETSI members to check the latest version of ETSI's policy available on the web server:

5.2 Work Item (WI) status review

<u>N2-030529</u> : MCC, Type: Work plan, Title: Latest version of the Work plan

Discussion: Enhanced Dialled Services for CAMEL will be marked as completed in Release 6 work plan. Corrections will still be done in future CN2 meetings, but functionality is defined.

Conclusion: noted

<u>N2-030536</u> : CN2 chairman, Type: Discussion document, Title: Contents of each CAMEL phase

Discussion:

In CAMEL phase 1:

- Triggering for MO, MT and MF calls is available. (MF calls should be added into the table)

- In Any Time Interrogation, it should be clearly specified that the exact location may not be up to date. The wording in the "purpose" column will be improved.

In CAMEL phase 2*:*

- In the support column for Triggering on MO and MT calls, "Simple VPN" is replaced by "VPN for calls". Follow-on calls is added in the same column.

- In SCP provided e-parameters, in "restrictions column", inter-vendor inter-working problems is removed.

In CAMEL phase 3: CCBS is introduced

In "Any Time Interrogation- Enhanced with CAMEL3 current location retrieval", ATI for GMLC is added. The restriction is added that it is used for CS only.

In CAMEL phase 4:

- Reporting of MSclassmark is added.

- In "Any Time Interrogation- Enhanced with CAMEL3 current location retrieval", ATI for GMLC is added., CAMEL4 enhances this to PS domain. A purpose ATI for GMLC is added.

- MNP support is added (Any Time Interrogation from CSE to MNP-SRF).

SCP is replaced by CSE through the document. This is purely informative document. The reader should refer to actual specifications for detailed content of each CAMEL phase.

The formatting will be updated offline. General comments and updates to this document will be done in the future by e-mail to CN2 list and the document will be updated offline.

Conclusion: revised to N2-030543

N2-030543 : CN2 chairman, Type: Discussion document, Title: Contents of each CAMEL phase

Conclusion: approved, the document will be published on the CN2 web page

5.3 Meeting calendar of year 2004

5.4 Terms of reference

6 Maintenance of earlier CAMEL phases

6.1 CAMEL phase 1

6.2 CAMEL phase 2

N2-030504: TS 03.018, R97, Nokia, Type: CR, CR#A070, Title: MAP and CAP 3G SAI mapping to 2G CellIDorLAI Location Information parameter

Discussion: The parameter name"Cell ID" is changed into "Cell ID or LAI". The addition to the wording of the parameter "Cell ID or LAI" description is proposed as follows: If CAMEL phase 1 or 2, or MAP pre-R99 is used in a 3G environment the parameter may contain the 3G Service Area Identity (SAI). The encoding of SAI is identical to the Cell Global ID.

"3G environment" will be replaced by "3G radio access as defined in R99 or later release".

CN2 chairman raised the question whether the change to R97 is acceptable by CN2. Vodafone and Siemens are not very much in favour of changing R97. T-Mobil prefers to clarify this and to accept this CR.

In the reason for change, CAMEL phase 1 shall be mentioned. Consequences if not approved needs to be clarified. CAPv2 element may not pack the element at all although mandatory.

Conclusion: revised to N2-030544

N2-030544: TS 03.018, R97, Nokia, Type: CR, CR#A070, Title: MAP and CAP 3G SAI mapping to 2G CellIDorLAI Location Information parameter

Discussion:

Conclusion: approved

N2-030505: TS 03.018, R98, Nokia, Type: CR, Title: MAP and CAP 3G SAI mapping to 2G CellIDorLAI Location Information parameter

Discussion:

Conclusion: endorsed by CN2, approved by CN4

6.3 CAMEL phase 3 in R99

6.4 CAMEL phase 3 in Rel-4

7 CAMEL phase 4 in Release 5

7.1 Review of CAMEL phase 4 Stage 1

N2-030482: TS 22.078, Rel-5, Alcatel, Type: CR, Title: CLIR and CAMEL interworking

Discussion: The document is presented in CN2-SA1 Joint meeting in S1-031123. This proposal is competing to Nokia's proposal in N2-030502. Vodafone, Ericsson and T-Mobil prefer Nokia's approach to increase simplicity.

Alcatel finds Nokia's proposal more complicated from implementation point of view, but Alcatel can accept Nokia's proposal.

Conclusion: withdrawn

N2-030483: TS 22.078, Rel-6, Alcatel, Type: CR, Title: CLIR and CAMEL interworking

Discussion:

Conclusion: withdrawn

N2-030484: TS 23.078, Rel-5, Alcatel, Type: CR, CR#625, Title: CLIR and CAMEL interworking relative to ICA call and ICA leg

Discussion:

Conclusion: withdrawn

N2-030502: TS 22.078, Rel-5, Nokia, Type: CR, Title: CLIR/CLIP interaction with CSE initiated calls (S1-031122)

Discussion: The CN2-SA1 Joint meeting decided to accept the Nokia's proposal and competing proposal from Alcatel is withdrawn. The Release 6 CR is needed. All call cases are not listed.

"CSE initiated call" will be replaced by replace by "NP, NC, MF". "IPLMN" will be added.

Conclusion: revised to N2-030572

N2-030572: TS 22.078, Rel-5, Nokia, Type: CR, Title: CLIR/CLIP interaction with CSE initiated calls

Discussion: S1-031307

Conclusion: endorsed by CN2 without presentation, will be sent to SA1 plenary for approval

SA1 revised *S1-031307* to S1-031315 which was approved.

N2-030573: TS 22.078, Rel-6, Nokia, Type: CR, Title: CLIR/CLIP interaction with CSE initiated calls

Discussion: The document was discussed in the CN2-SA1 Joint meeting.

Conclusion: endorsed without presentation, sent to SA1 plenary in S1-031308 which was approved

N2-030503: TS 23.078, Rel-5, Nokia, Type: CR, CR#568r1, Title: CLIR/CLIP interaction with CSE initiated calls

Discussion: Connect and CWA have different description. The wording of the description of "Connect" will be copied to the CWA description.

Conclusion: revised to N2-030577

N2-030577: TS 23.078, Rel-5, Nokia, Type: CR, CR#568r2, Title: CLIR/CLIP interaction with CSE initiated calls

Discussion:

Conclusion: approved

7.2 Miscellaneous CAMEL phase 4 issues

N2-030499: CN2 Chairman, Type: Discussion document, Title: CAMEL open issue list

Discussion: This document lists open issues on TS 23.078 and TS 29.078 identified by CN2 meetings.

Open issue no.11 (MNP Translation Type) is CN4 issue, therefore it will be deleted from the list.

Conclusion: revised to N2-030586

N2-030586: CN2 Chairman, Type: Discussion document, Title: CAMEL open issue list

Discussion:

Conclusion: noted

N2-030535: CN2 Chairman, Type: Discussion document, Title: Recorded CAMEL4 decisions

Discussion: The document will be published in CN2 web page. Decision no.2 and 3 are corrected in revised version.

Conclusion: revised to N2-030545

N2-030545: CN2 Chairman, Type: Discussion document, Title: Recorded CAMEL4 decisions

Discussion:

Conclusion: noted, the document will be published on CN2 web page

N2-030506: TS 29.002, Rel-5, Nokia, Type: CR, Title: More spare bits for CAMEL4 enhancements

Discussion: This CR increases the maximum size of OfferedCamel4Functionalities from 32 to 64 bits, due to backwards compability when introducing new small enhancements in CAMEL4. Vendors can start implementing this and this change saves the work in the future if number of CAMEL4 subsets exceeds 32 bits. New enhancements in the future will be covered by CAMEL4 partial implementation feature. According to Nokia, the new bits are also ment for standard use, any vendor-specific subset is expected to use the *extension* information element.

Conclusion: endorsed by CN2, approved by CN4

N2-030507: TS 29.002, Rel-6, Nokia, Type: CR, Title: More spare bits for CAMEL4 enhancements

Discussion:

Conclusion: endorsed by CN2, approved by CN4

N2-030493: TS 23.078, Rel-5, Ericsson, Type: CR, CR#632, Title: Impact by LNP and GEA on Destination_Address in Answer

Discussion: This CR includes the note which says that the Destination Address may include Number Portability information or Equal Access information. The method of including Number Portability information or Equal Access information, by the MSC, in the Called Party Number, is outside the scope of the TS 23.078.

Siemens would like to mention that the method of including Number Portability information or Equal Access information is the operators option, or to delete the second sentence from the description.

In some countries there is a prefix + MSISDN. In some, there is routing number to the destination network, and separately there is called party number including MSISDN. Nokia is concerned on the new proposed wording in the latter case. It is not clear which ISUP parameter should be reported to CSE.

Destination address is copied from ISUP IAM. The information copied from Called Party Number from ISUP may contain Number Portability or Equal Access.

The first sentence of the description shall be changed. The destination number is Called Party number. It has been decided that the note will become the part of the description.

Conclusion: revised to N2-030546

N2-030546: TS 23.078, Rel-5, Ericsson, Type: CR, CR#632r1, Title: Impact by LNP and GEA on Destination_Address in Answer

Discussion:

Conclusion: postponed to next meeting

N2-030497: TS 23.078, Rel-5, Nortel Networks, Type: CR, CR#613r1, Title: Handling AC Pending if ETC/ CTR fails

Discussion: The reason for change should be improved to cover the problem more generic.

The subcategory shall be essential correction. The only changes are in the cover page and this will be corrected offline.

Conclusion: approved

N2-030513: TS 23.078, Rel-5, Nokia, Type: CR, CR#634, Title: SDL handling of DisconnectFromIPForbidden in Assisting SSF case

Discussion: Title is changed offline. "Disconnect FromIPfobidden" will have a "yes" and "no" branches (instead "true" and "false"). The reason for change shall be improved (The assisting SSF is not closing the TC dialogue properly)

Conclusion: revised to n2-030547

N2-030547: TS 23.078, Rel-5, Nokia, Type: CR, CR#634r1, Title: SDL handling of DisconnectFromIPForbidden in Assisting SSF case

Discussion:

Conclusion: approved

N2-030548: TS 29.078, Rel-5, Nokia, Type: CR, CR#342, Title: Handling of DisconnectFromIPForbidden in Assisting SSF case

Discussion: "Specialised" will be replaced by "Specialized" offline thought the document because of consistency. It should be consistent with the parameter name in the protocol.

Following sentence is deleted: The InitialDP operation shall be transmitted in the same message.

Announcement complete is possible for PlayAnnouncement only, but not for PromptAndCollect.

"or PromptAndCollectUserInformation" will be removed from the added paragraph in the "*gsmSSF FSM related messages*".

In the chapter "SCSM-FSM related messages", in the second sentence, "except for the following cases" is deleted.

There were many editorial and rewording proposals, and editing of the text was done online during the meeting.

Conclusion: revised to N2-030562

N2-030562 is approved without presentation.

N2-030514: TS 29.078, Rel-5, Nokia, Type: CR, CR#338, Title: More call related CAPv4 extensions for future releases

Discussion: "Tab" can be used instead of spaces. The following sentence shall be deleted: "The gsmSCF shall arm at least one detection point which has numeric value below 51".

Instead of the term "future releases", it is agreed to use "From Release 6 onwards". Later on, this decision was cancelled. Some existing parameters use "future releases".

Ericsson is asking whether we are sure we want to exceed the maximum length of the UDT message (MAXIMUM-FOR-FCI-BILLING-CHARGING is changed from 225 to 300). Is it backwards compatible? It was concluded that the change will be cancelled.

MAXIMUM-FOR-SCI-BILLING-CHARGING stays changed from 124 to 225.

The spelling in the title shall be corrected.

Conclusion: revised to N2-030549

N2-030549: TS 29.078, Rel-5, Nokia, Type: CR, CR#338r1, Title: More call related CAPv4 extensions for future releases

Discussion: There is ellipsis in choice type.

Conclusion: revised to N2-030583

N2-030583: TS 29.078, Rel-5, Nokia, Type: CR, CR#338r2, Title: More call related CAPv4 extensions for future releases

Discussion:

Conclusion: approved

N2-030537: Rel-5, China Mobile, Type: Discussion document, Title: Correction for data volume report in GPRS data volume threshold procedure

Introduction: The delegation from China Mobile has sent their excuse for not attending the meeting due to problem with the visa for Thailand, therefore the document was presented by Siemens delegate, Mr. Sumio Myagawa.

The discussion document contains proposals for correction for data volume report in GPRS data volume threshold procedure. Three solutions are mentioned:

1. VPLMN reports the granted volume to CSE when the transmitted volume exceeds the granted volume, and left the remainder in a counter;

2. VPLMN reports the transmitted volume to CSE, CSE accept the volume which is bigger than the granted volume and continue.

3. add a new parameter in ACR GPRS for the dispersion amount between transmitted volume and granted volume.

China Mobile prefer the first solution.

Discussion:

If we want to change this, stage 3 shall be changed as well.

   CN2#31 view is that the wording in stage 2 and 3 shall say that the gprsSSF/SGSN shall report the transferred volume, not the limit granted by SCP/gsmSCF.
   The SCP can get correct information, and the SCP can do whatever it wants to based on correct information. The ACR-GPRS reporting does not impact data transmission in SGSN. Transmission continues even after ACR-GPRS.
   CN2#31 view is that it is not mandated for SCP to reject the operation if the reported volume exceeds the granted volume.

   This change would need the change of the rewording in stage 1, 2 and 3. The wording currently in 22.078, 23.078 and 29.078 tells SGSN to report "transferred volume", not granted volume.

Conclusion: noted

N2-030530: TS 22.078, Rel-5, CMCC, Type: CR, Title: Correction for data volume report in GPRS data volume threshold procedure

Discussion:

Comments:

   The reason for change says : If VPLMN reports the volumn transmitted to CSE which is more than the granted volumn, CSE will reject. CN2 opinion is that CSE will not reject.

   Vodafone's opinion is that this is too detailed CR for stage 1.

   Nokia: Stage 1 already says that, if available, the Charge result (elapsed time or total amount of data transmitted) shall be provided to the CSE. The new proposed text is conflicting with the existing text.

Conclusion: noted

N2-030531: TS 23.078, Rel-5, CMCC, Type: CR, CR#626, Title: Correction for data volume report in GPRS data volume threshold procedure

Discussion: The same reason for change is as in N2-030530. The document introduces additional description for the IE "Charging result" (If this IE contains data volume, the volume should not exceed the granted volume received in Apply Charging GPRS.)

The SDL should model the handling of the counter exceeding granted volume. Currently the delta counter starts from zero when ACR_GPRS is reported. Also 29.078 parameter description would need a change as well.

Conclusion: noted (CN2 is waiting for the revised input for the next meeting to have a complete package)

<u>N2-030518:</u> TS 23.078, Rel-5, NEC, Type: CR, CR#637, Title: Extension of QoS for HSDPA in GPRS CAMEL

Discussion:

Conclusion: revised to N2-030532

<u>N2-030532:</u> TS 23.078, Rel-5, NEC, Type: CR, CR#637r1, Title: Extension of QoS for HSDPA in GPRS CAMEL

Summary: In the SA-Plenary#21, The TS 23.107 CR that upgrades the maximum bitrate upto 16 mega was approved in order to support HSDPA. Accordingly, the TS 24.008 CR was also approved in the CN-Plenary#21.These upgrades has the impact to CAP since bitrate information as the part of QoS is handled in some CAMEL procedures.

This CR proposes addition of the following new parameters which are used when the maximum bit rate exceeds 8640 kbps.

negotiated2-QoS to the quality of service IE in Apply Charging Report GPRS information flow.

Requested2 QoS, Subscribed2 QoS and Negotiated2-QoS to the quality of service IE in Event Report GPRS information flow.

Requested2 QoS, Subscribed2 QoS and Negotiated2-QoS to the quality of service IE in Initial DP GPRS information flow.

Requested2 QoS, Subscribed2 QoS and Negotiated2-QoS to the quality of service IE in Provide Subscriber Info ack information flow.

Discussion: Why we have to introduce new parameters to support higher bitrate and not use the existing parameters? New IE is imported from MAP protocol. The proposed parameter is not extensible.

Are both parameters present (e.g. Negotiated QoS and Negotiated2 QoS), or they are mutually exclusive? Negotiated2 QoS may exist only if Negotiated QoS exist.

Ericsson would like to see an improved reason for change. HSDPA function shall be explained and the informative section shall be introduced to give the definition of the new QoS (from TS 24.008 and TS 29.002). The change of title is proposed : e.g. " Extension of QoS for HSPDA for GPRS CAMEL".

"S" in status column means that the rule for presence is described in the description column. "S1", "S2" and "S3" shall be used. Stage 2 gives the information when the parameter shall be sent. In CAP there should be no duplication of the description.

Is there a specification where we can find the detailed description and the content of e.g. Requested QoS, Requested2 QoS, and other parameters mentioned in the change. NEC opinion is that if we want to find the detailed content of the parametes, the reader should refer to stage 3 (MAP specification). NEC is proposing to delete the proposed reference to stage 2 in the description of the parameters.

CN2 proposes different parameter naming. The principle agreed is to add in the name of the parameters "extended" (e.g. Requested QoS extended, Negotiated QoS extended and Subscribed QoS extended).

The guaranteed bit rate is not reported.

Conclusion: revised to N2-030550

<u>N2-030550:</u> TS 23.078, Rel-5, NEC, Type: CR, CR#637r2, Title: Extension of QoS for HSDPA in GPRS CAMEL

Discussion: If e.g. the parameter "Requested QoS extended" is marked with "S", then specific condition has to be specified. "This IE may be present only" must be changed to "This IE shall be present" and it must be specified that otherwise the IE shall be absent.

"Negotiated QoS" is marked as "C" in the existing text of the specification. It shall be marked as "S" as well.

In informative section, the version of TS 23.008 shall be included. All new parameter names have wrong spelling of the word "extended". This shall be corrected in the revised version.

What is the difference between the user and the subscriber? The existing description of Negotiated QoS uses the term "user" in the description, therefore the same term is used in Negotiated QoS extended. Other parameters (e.g. Requested QoS) use the term "subscriber".

In the bullet list, in the description of the parameter, each bullet shall be separated by the ";".

In the category field, the subcategory "essential correction" shall be marked.

Conclusion: revised to N2-030567

N2-030567: TS 23.078, Rel-5, NEC, Type: CR, CR#637r3, Title: Extension of QoS for HSDPA in GPRS CAMEL

Discussion:

Conclusion: approved without presentation

(Later on, Vodafone indicated in email that the proposed wording and parameter name is not OK. Therefore, for the CN plenary Vodafone and NEC will jointly prepare an improved version of the CR. Similar change will be done for the 29.078 CR as well. Following CR numbers are allocated for improved versions which will be submitted by NEC/Vodafone directly to CN plenary: CR#646 for TS 23.078 change request and CR#344 for TS 29.078 change request)

N2-030519: TS 29.078, Rel-5, NEC, Type: CR, CR#340, Title: Extension of QoS for HSDPA in GPRS CAMEL

Discussion:

Conclusion: revised to N2-030533

N2-030533: TS 29.078, Rel-5, NEC, Type: CR, CR#340r1, Title: Extension of QoS for HSDPA in GPRS CAMEL

Discussion: If the parameter names are changed in stage 2, they shall be changed in stage 3 as well.

Starting from page 3, both informal comments will be removed. "The procedure descriptions in clause 11 indicate which one(s) of the QoS variables shall be transported." – will be removed as well as it does not give any value.

Title shall be changed according to stage 2 CR title. The changes from stage 2 CR cover page, could be copied to stage 3 CR cover page.

Conclusion: revision of N2-030551

N2-030551: TS 29.078, Rel-5, NEC, Type: CR, CR#340r2, Title: Extension of QoS for HSDPA in GPRS CAMEL

Discussion: The subcategory in shall be marked as "essential correction". New parameters are applicable after ellipsis. In ASN.1, after ellipsis there should be a ",".

The word "extended" in the name of the parameters shall be written with capital letter "E". Parameter names in text shall align the parameter names in the ASN.1.

Conclusion: revised to N2-030568

N2-030568: TS 29.078, Rel-5, NEC, Type: CR, CR#340r3, Title: Extension of QoS for HSDPA in GPRS CAMEL

Discussion:

Conclusion: approved without presentation

N2-030538: TS 23.078, Rel-5, Ericsson, Type: CR, CR#640, Title: Correction to trigger criteria for forwarded calls

Discussion: The last sentence of the first paragraph that is added is already covered in SDL. The inclusion of the whole first paragraph can be cancelled.

The copy of the SDL which covers the textual part shall be included in the CR.

Conclusion: revised to next meeting

7.3   CAMEL phase 4, Interactions with Optimal Routeing

N2-030489: TS 23.079, Rel-5, Ericsson, Type: CR, Title: Correction to MAP RCH GMSC shall check Supported CAMEL4 subsets

Discussion: (N4-031137)

- The "subset" is not formally used term. GMSC sees the supported CSIs of GMSC.

- RCH indicates the CAMEL phase supported and CSI is included in RCH. No check in VMSC for T-CSI is included.

- Note should not be in the SDL.

Conclusion: revised to N2-030552

N2-030552: TS 23.079, Rel-5, Ericsson, Type: CR, Title: Correction to MAP RCH GMSC shall check Supported CAMEL4 subsets

Discussion: The document was presented in the CN2-CN4 Joint meeting in N4-031306.

SDL source file will be provided to CN4 secretary.

Conclusion: approved by CN4 and endorsed by CN2 during the joint meeting

7.4   CAMEL phase 4, Call Party Handling and SCP initiated calls

N2-030478: TS 23.078, Rel-5, Alcatel, Type: CR, CR#619r1, Title: CAMEL Leg Handling

Discussion:

➢ This CR clarifies when a leg begins to exist and when the leg ceases to exist. The text is written in the informative way, therefore Vodafone proposes to put the thext as an informative annex.

➢ Siemens and Alcatel prefer to have the text in the main body of the specification.

➢ "Before a leg is released and ceases to exist the corresponding connection is released." That applies to outgoing leg. For the incoming leg the sequence is the other way around.

➢ "Call" will be replaced by "connection to called party". "Incoming call party" will be replaced by "calling party".

➢ "Leg cessation" will be replaced by "Leg ceases to exist", and "Leg movement" will be replaced by "Leg is moved".

➢ The first sentence in the section 6.6.4.3 will be removed.

➢ "IAM" will be replaced by "ISUP IAM".

➢ In the specification there is no definition of the leg. The words export and import are not defined anywhere in the document. There is the opportunity to clarify this in the revised version.

Conclusion: revised to N2-030553

N2-030553: TS 23.078, Rel-5, Alcatel, Type: CR, CR#619r2, Title: CAMEL Leg Handling

Discussion: When a complete new section is added, it is recommended to mention in the CR the section after which it shall be added.

Comments to wording:

➢ The title "Leg is continued" shall be replaced by "Leg continues to exist", as well "Leg is ceased" to "Leg is released". The first sentence of the "Leg is released" will be improved in wording.

➢ "Calling call party" will be replaced by "Calling party".

➢ Ericsson has few improvements for section 4.4.6.4.:

➢ Add "specified" to second sentence of the first paragraph.

Conclusion: revised to N2-030578

N2-030578: TS 23.078, Rel-5, Alcatel, Type: CR, CR#619r3, Title: CAMEL Leg Handling

Discussion:

Conclusion: approved without presentation

N2-030479: TS 23.078, Rel-5, Alcatel, Type: CR, CR#624, Title: CAMEL DP Leg Handling

Discussion: This CR specifies in 23.078 which leg ID shall be used to continue call handling. In bullet 4., 5., and 6., we shall replace "use" by "assume". Consequences if not approved shall be improved in order to give more detailed information about the CR.

TDP case shall be clarified in the SDL, not in the text.

Conclusion: revised to N2-030554

N2-030554: TS 23.078, Rel-5, Alcatel, Type: CR, CR#624r1, Title: CAMEL DP Leg Handling

Discussion:

Conclusion: approved without presentation

N2-030486: TS 29.078, Rel-5, Ericsson, Type: CR, CR#337, Title: Correction to description of "valid CSI" in SCP initiated call

Discussion: The CR introduces a following clarification in Error handling: "If the TC dialogue was established by the gsmSCF, then the gsmSSF shall use 'Release Call' for Default Call Handling".

"Default Call Handling of the valid CSI" shall be replaced by "Default Call Handling for the call".

Conclusion: revised to N2-030555

N2-030555: TS 29.078, Rel-5, Ericsson, Type: CR, CR#337r1, Title: Correction to description of "valid CSI" in SCP initiated call

Discussion:

Conclusion: approved without presentation

N2-030487: TS 23.078, Rel-5, Ericsson, Type: CR, CR#627, Title: Correction to MAP SRI between gsmSCF and HLR - Supported CAMEL Phases shall be Mandatory

Discussion:

Conclusion: approved

N2-030488: TS 23.078, Rel-5, Ericsson, Type: CR, CR#628, Title: Removal of Int_Continue from process ICA_MSC

Discussion: The change for Mid call DPs will be cancelled.

If ICA process triggers on DP3, is it then possible for leg2? This issue has to be studied.

Conclusion: revised to N2-030556

N2-030556: TS 23.078, Rel-5, Ericsson, Type: CR, CR#628r1, Title: Removal of Int_Continue from process ICA_MSC

Discussion:

Conclusion: approved

N2-030517: TS 23.078, Rel-5, Nokia, Type: CR, CR#636, Title: C CAMEL User interaction at alerting and MidCall
Discussion: TS 22.078 requires CAMEL user interaction at alerting and MidCall detection points. This CR implements the requirement in stage 2.

In the summary of change CS_gsmscSSF shall be corrected to CS_gsmSSF.

The CAMEL OCH_ETC and CAMEL_OCH_CTR procedures have input for calling party release. The input shall not be forgotten, the CAMEL_OCH_LEG1_MSC shall check that result as well.

The return result should be different to "pass" for MidCall_active DP and AnswerDP. For alerting DP we have "Fail". Answer DP requires also change in calling procedure or process.

Conclusion: revised to N2-030557

N2-030557: TS 23.078, Rel-5, Nokia, Type: CR, CR#636r1, Title: C CAMEL User interaction at alerting and MidCall
Discussion: Summary of change was improved. New procedure is introduced: Procedure CAMEL_Disconnect_CTR_SRF.

In CAMEL_OCH_CTR, why an input for called party release and why UI is interrupted? There is user interaction in alerting phase of the call and then called party releases. Shouldn't then announcement be interrupted? How many legs are in the call when release of outgoing leg is received?

1. In alerting phase it makes sense to release UI if called party disconnects.

2. Leg1 active phase: there is only leg1 present and release comes from the gsmSSF

3. Leg2 active phase: there is only leg2 therefore UE should be interrupted.

Conclusion: e-mail approval. The deadline for rejection is 7th of November 2003, end of day. <u>No comments received by the deadline, therefore the document is approved and will be sent to CN#22 for approval.</u>

N2-030492: TS 23.078, Rel-5, Ericsson, Type: CR, CR#631, Title: Correction to MAP SRI between gsmSCF and HLR HLR shall use TS11

Discussion: The CR specifies that the HLR shall use TS11 for MAP SRI from gsmSCF. Siemens: What is meant by" basic service"? According to Siemens this is a new term. There are basic services, bearer services and teleservices.

In the case of multi-numbering scheme, if we don't have bearer capability, it is the MSISDN who determines the service which HLR assumes. If it is single numbering, and if there is no bearer capability, the HLR does not continue any service. In this CR the rule is defined in different manner than already defined in TS 29.007.

T-Mobil: The HLR has to reject the SRI from gsmSCF towards data number. It shall always refer to speech calls. If the use of SRI is restricted, than the only relevant bearer capability would be speech. gsmSCF has no information which bearer capability shall be set up. In multy numbering case when the MSISDN is speech, then it is clear that it is a speech service (TS11). Certain operators use multy numbering and some use single numbering. It is operator's issue. TS 29.007 defines the rules how to derive basic service.

It was proposed to add the bearer capability from SCP in SRI and refer to 29.007. GsmSCF shall set the parameter so that speech service is used.

ICA can not be sent towards the data number. It is associated to speech service.

Conclusion: revised to N2-030558

N2-030558: TS 23.078, Rel-5, Ericsson, Type: CR, CR#631r1, Title: Correction to MAP SRI between gsmSCF and HLR HLR shall use TS11

Discussion: In section 4.6.15.1.1, the wording is changed in order to reference to 3GPP TS 29.007 [44].

Conclusion: revised to N2-030579

N2-030579: TS 23.078, Rel-5, Ericsson, Type: CR, CR#631r1, Title: Correction to MAP SRI between gsmSCF and HLR HLR shall use TS11

Discussion:

Conclusion: approved without presentation

N2-030494: TS 29.078, Rel-5, Ericsson, Type: CR, CR#335, Title: Correction to TCAP rules for gsmSCF initiated calls

Discussion:

Conclusion: approved

N2-030490: TS 23.078, Rel-5, Ericsson, Type: CR, CR#630, Title: Correction to CAP ICA - addition of Additional Calling Party Number

Discussion:

Conclusion: withdrawn

N2-030491: TS 29.078, Rel-5, Ericsson, Type: CR, CR#334, Title: Correction to CAP ICA - addition of Additional Calling Party Number

Discussion:

Conclusion: withdrawn

N2-030539: TS 23.078, Rel-5, Ericsson, Type: CR, CR#641, Title: Using Suppress TCSI in ICA for NP call legs

Discussion: The subcategory shall be "agreed by consensus". We may consider to update the stage 1. If the CR is approved in the plenary we can change stage 1. Siemens finds that the stage 1 can not be updated due to stage 2 and stage 3 change introduced now in Release 5..

We can send a CR with a LS to SA1 which has a meeting in the same week as CN2#31.

Conclusion: approved, will be sent to CN plenary in the separate package

N2-030566: TS 22.078, Rel-5, Ericsson, Type: CR, Title: Using Suppress TCSI in ICA for NP call legs

Discussion: The document is presented in CN2-SA1 Joint meeting.

"Served subscriber" will be replaced by "new leg".

Conclusion: revised to N2-030574

N2-030574: TS 22.078, Rel-5, Ericsson, Type: CR, Title: Using Suppress TCSI in ICA for NP call legs

Discussion:

Conclusion: endorsed, sent to SA1 plenary meeting in S1-031309

During SA1 plenary, S1-031309 was revised to S1-031316 due to wrong CR template. S1-031309 was approved.

N2-030575: TS 22.078, Rel-6, Ericsson, Type: CR, Title: Using Suppress TCSI in ICA for NP call legs

Discussion: This is a mirror CR to N2-030574.

Conclusion: endorsed by CN2, sent to SA1 plenary for approval in S1-031310.

S1-031310 was revised during SA1 plenary to S1-031317. S1-031317 was approved.

N2-030542: TS 23.078, Rel-5, Alcatel, Type: CR, CR#642, Title: Use of Continue With Argument for gsmSCF initiated calls

Discussion: According to Ericsson it would be useful to have a definition of CPH operation. The CR clarifies that ICA is not the part of CPH operations, therefore the full clarification shall be given. According to Alcatel this is not the intention of the CR and this is already defined in the section 3.1.

According to Ericsson, there is a definition of CPH operations, and the different term is used (CPH IF). Consistent usage of CPH IF shall be done.

Following Editorial corrections shall be done: In 4.5.7.4 the term CPH operation / information flow (DisconnectLeg, SplitLeg or MoveLeg) should be used similar as defined in clause 3.1 Definitions. Term "operation" should be replaced by "IF" in the stage 2.

Conclusion: revised toN2-030584

N2-030584: TS 23.078, Rel-5, Alcatel, Type: CR, CR#642r1, Title: Use of Continue With Argument for gsmSCF initiated calls

Discussion:

Conclusion: approved

N2-030576: TS 23.078, Rel-5, Ericsson, Type: CR, CR#644, Title: Correction to Disconnect Leg handling – gsmSSF shall send charging reports

Discussion: This document was the late document provided during the meeting. Comment box lines will be corrected offline.

Conclusion: approved

7.5 CAMEL phase 4/DTMF Mid-call procedure for MO and MT calls

7.6 CAMEL phase 4/Provisioning of IP based multimedia services

N2-030534: TS 23.278, Rel-5, Nortel Networks, Type: CR, CR#046, Title: Correction to the definition of interfaces for the IM-SSF

Discussion: The reference to the MAP specification shall be [9]. The new reference will be removed.

Conclusion: revised to N2-030565

N2-030565: TS 23.278, Rel-5, Nortel Networks, Type: CR, CR#046r1, Title: Correction to the definition of interfaces for the IM-SSF

Discussion:

Conclusion: approved

7.7 CAMEL phase 4 control over MT SMS

7.8 CAMEL phase 4/ Inclusion of flexible tone injection

N2-030485: TS 23.078, Rel-5, Ericsson, Type: CR, CR#333, Title: Correction to flexible warning tone burst interval duration

Discussion:

Conclusion: approved

7.9 CAMEL phase 4/ Charging Notification to CSE (removal of functionality)

7.10 CAMEL phase 4/ Enhancements of Dialled Services (removal of functionality)

7.11 CAMEL phase 4/ Provision of location information of called subscriber

N2-030520: TS 23.078, Rel-5, Siemens AG, Type: CR, CR#638, Title: Removal of location information at DP O_Term_Seized

Discussion: This CR removes Location Information IE from Event Report BCSM IF at DP O_Term_Seized. For this DP, no information is included.

T-Mobil: If it would be included, this information would be related to calling party information. In stage 1 it is not clearly specified whether the information is not present or not required.

Vodafone: Is it really essential correction? There is no clarification in this CR whether it is essential correction, but there is certainly an open issue when the change of the position is changed before alerting. There is a chance that different implementations appear.

Ericsson doubts if ChangOfPosition arming is possible in DP2.

Conclusion: rejected

N2-030521: TS 29.078, Rel-5, Siemens AG, Type: CR, CR#341, Title: Removal of location information at DP O_Term_Seized

Discussion:

Conclusion: rejected

N2-030559: TS 23.078, Rel-5, Siemens AG, Type: CR, CR#643, Title: Inclusion of DP O_Term_Seized in CAMEL Phase 4 Partial Implementation

Discussion: This is the new CR as a result of discussion on N2-030520.

Conclusion: approved

7.12 CAMEL phase 4/ Notifiaction of GPRS Mobility Management to CSE

7.13 CAMEL phase 4/ Inclusion ODB data in the CSE-HLR interface

7.14 CAMEL phase 4/ Location Information during an ongoing call

7.15 CAMEL phase 4 / GPRS AnyTimeInterrogation

7.16 CAMEL phase 4 partial implementation

7.17 CAMEL phase 4 / Reporting of IMEI and MSClassMark to SCP

N2-030522: Source: Siemens AG, Type: CR, CR#639, Title: Inclusion of PSI Enhancement IE in VLR - HLR IFs

Discussion: Procedure CAMEL_Provide_Subscriber_Info is modified so that if the HLR is requested to obtain the IMEI (with software version) from the VLR, and if the VLR has not sent PSI Enhancements beforehand, the HLR reply with "not provided by VLR". According to Siemens, this CR is useful to reduce the signalling load.

If the VLR can't obtain IMEI, then it is not returned.

ATI can request multiple elements. Due to this CR, HLR rejects directly, thus the other elements would not be retrieved from VLR/SGSN. Nokia does not see this as a critical change. It is not useful to reduce signaling just in this one case.

Conclusion: rejected

7.18 CAMEL phase 4 / Service Change and UDI Fallback (SCUDIF)

N2-030495: TS 23.078, Rel-5, Ericsson,Type: CR, CR#633 , Title: Reporting Basic Service at DP Answer for SCUDIF calls

Summary: ~~T~~The result from the negotiation of services for a SCUDIF call needs to be reported to the gsmSCF (at Answer), by reporting "Ext-basic service code" (for the selected service) and when needed "Ext-basic service code 2" (for the other service, if available for service change during the call) This CR introduces these 2 new parameters.

The benefit of Ericsson's proposal is that SCP knows whether it should arm the DP. Nokia has competing proposal and is ready to withdraw the proposals in N2-030515 and N2-030516 and take the Ericsson's proposal for the basic of the further work.

Added parameters should be marked as "S" and condition is that it is sent only for a SCUDIF call. The CR subcategory should be marked in the cover page as essential correction.

Conclusion: revised to N2-030563

N2-030563: TS 23.078, Rel-5, Ericsson,Type: CR, CR#633r1 , Title: Reporting Basic Service at DP Answer for SCUDIF calls

Discussion:

Conclusion: approved without presentation

N2-030496: TS 29.078, Rel-5, Ericsson,Type: CR, CR#336 , Title: Reporting Basic Service at DP Answer for SCUDIF calls

Discussion: This is a stage 3 change that follows the change in N2-03563. Would 2 new parameters be available before the ellipsis in Release 5. If they are before ellipsis then all Release 5 elements should be capable to recognise them.

Siemens: This should be the matter of the partial implementation in Release 5. According to Alcatel, since it is MSC who requests the parameter, it can't be the matter of the partial implementation. This functionality can not be a "subset" within the partial implementation of CAMEL phase 4.

Siemens could accept it before the ellipsis (it is not a late phase of the Release 5).

CN2 working assumption is that these 2 parameters can be introduced before ellipsis. This CR shall be marked as "essential correction".

Conclusion: revised to N2-030564

N2-030564: TS 29.078, Rel-5, Ericsson, Type: CR, CR#336r1 , Title: Reporting Basic Service at DP Answer for SCUDIF calls

Discussion:

Conclusion: approved without presentation

N2-030515: TS 23.078, Nokia, Type: CR, CR#635 , Title: Reporting of active basic service at answer due to SCUDIF

Discussion:

Conclusion: withdrawn

N2-030516: TS 29.078, Rel-5, Nokia, Type: CR, CR#339 , Title: Reporting of active basic service at answer due to SCUDIF

Discussion:

Conclusion: withdrawn

7.19 CAMEL phase 4/ MNP interworking with prepay

N2-030498: TS 23.078, Rel-5, Ericsson, Type: CR, CR#629 , Title: Remove contents table for MNP Requested Info parameter

Discussion: The CR removes the IE description table for parameter MNP Requested Info (in gsmSCF to MNP SRF information flows).

Conclusion: approved

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8 CAMEL phase 4 in Release 6

8.1 General and miscellaneous Rel-6 issues

8.2 Enhanced Dialled Services

N2-030508: TS 23.018, Rel-6, Nokia, Type: CR, Title: Collective CR for Rel-6 Enhanced Dialled Services

Discussion: The document was discussed in Cn2-CN4 Joint meeting (N4-031133).

Conclusion: CN4 approved and CN2 endorsed in the joint meeting

N2-030509: TS 23.078, Rel-6, Nokia, Type: CR, CR#553r2, Title: 23.078-CR553 Collective CR for Rel-6 Enhanced Dialled Services

Discussion: In abbreviations section, EDS Enhanced Dialled Services is added . It is used in IDP only. Siemens finds that it is not necessary to introduce this in "Abbreviations" clause. The comment was withdrawn later.

New sheets shall have a label. The document was postponed to joint meeting.

The document was presented during the joint meeting CN2-CN4 Joint meeting in N4-031134. Vodafone provided editorial comments offline.

Conclusion: revised to N2-030569 in CN2, CN4 noted

N2-030569: TS 23.078, Rel-6, Nokia, Type: CR, CR#553r3, Title: 23.078-CR553 Collective CR for Rel-6 Enhanced Dialled Services

Discussion:

Conclusion: approved

N2-030510: TS 29.002, Rel-6, Nokia, Type: CR, Title: Collective CR for Rel-6 Enhanced Dialled Services

Discussion: Presented during CN2/CN4 joint meeting (N4-031135).

Conclusion: CN4 approved and CN2 endorsed

N2-030511: TS 29.078, Rel-6, Nokia, Type: CR, CR#332, Title: Collective CR for Rel-6 Enhanced Dialled Services

Discussion: The document was presented during CN2-CN4 Joint meeting in N4-031136. The document N2-030560 will be incorporated in this collective CR. Revised version will be presented to CN plenary for approval.

Conclusion: CN4 noted the document and CN2 revised it to N2-030570

N2-030570: TS 29.078, Rel-6, Nokia, Type: CR, CR#332r1, Title: Collective CR for Rel-6 Enhanced Dialled Services

Discussion:

Conclusion: approved without presentation, will be sent to CN plenary for approval

N2-030512: TS 29.078, Rel-6, Nokia, Type: CR, Title: MoveLeg precondition for Rel-6 EDS (DP3)

Discussion: This CR is a small technical correction.

DP3 is added in the list of DPs so that target CS will allow MoveLeg at DP3 for enhanced dialled services if leg2 is disconnected by SCP. Alcatel would like to note that it is only allowed for EDS and not in other cases. Ericsson would like to identify that this particular feature is allowed only for a long dialogue.

For the operations that are not applicable for the short dialogue, it should be clarified that they are applicable only for Enhanced Dialled Services. In case of short dialogue, outgoing leg can not be disconnected and MoveLeg is not applicable for the short DP3 dialogue at all.

Working assumption: In addition to existing change, it will be added in brackets (for EDS only) after "analysed_information" DP name.

Conclusion: revised to N2-030560

N2-030560: TS 29.078, Rel-6, Nokia, Type: CR, Title: MoveLeg precondition for Rel-6 EDS (DP3)

Discussion:

Conclusion: approved without presentation, will be incorporated into collective CR for EDS in N2-030570

8.3   Service Change and UDI Fallback (SCUDIF)

N2-030500: TS 22.078, Rel-6, Nokia, Type: CR, Title: CAMEL4 prepay interworking with SCUDIF (S1-031121)

Discussion: The document is presented in CN2-SA1 Joint meeting in S1-031121. This CR proposes to change CAMEL4 in Release 6 so that basic service changes during active call are reported to SCP. Reporting is done only if gsmSCF/SCP requests MSC/SSP to do so. Also the ApplyChargingReport would be generated in order to get a new call period timer value. This change allows operators to charge multimedia calls differently to speech calls also for prepay.

Supporting companies for this feature in Release 6 are: Nokia, Ericsson, Nortel Networks, NTT DoCoMo and NEC. Siemens and T-Mobile are not objecting this WI, but they are not supporting companies because they can not contribute on this WI.

Is the new detection point reported when requested? According to Nokia, for this service it would be enough to report when the change of service has been successfully done.

The trigger should be done when the calling party (MS-A) has acknowledged the UDI callback in case called party (MS-B) initiated. In MS-A initiated case when acceptance comes from the other end. In general acceptance message would trigger this.

Change from speech to multimedia is also possible. SCP should receive ACR for the leg which was ongoing and for which basic service was change. New AC should be related to the new basic service.

An EDP-N Apply Charging and ApplyCharging Report will be reported.

According to Ericsson, the arming of the DP would be enough at answer (at originating and terminating answer detection point). Arming in call setup is not necessary and Nokia agrees to change this.

Alcatel proposes to enable arming but explain that reporting only after answer is possible. Reporting at disconnection phase is not needed. It is concluded to take Alcatel's proposal and Nokia will clarify the CR accordingly.

No bearer capability is needed. This will be modified.

Editorial comments from Vodafone will be taken into account offline.

Nokia will check re-arming from ChangeOfPosition DP.

"Change of basic service code" shall be replaced by "Change of basic service".

Inband or user interaction is not possible because of EDP-N.

Category shall be "B".

Conclusion: revised to N2-030571

N2-030571: TS 22.078, Rel-6, Nokia, Type: CR, Title: CAMEL4 prepay interworking with SCUDIF (S1-031306)

Discussion: MCC to check bullets while editing the document.

Conclusion: endorsed by CN2, MCC will send it to SA1 plenary for approval in S1-031306

During SA1 plenary S1-031306 was revised to S1-031318. S1-031318 was approved.

N2-030501: WID, Nokia, Type: CR, Title: CAMEL4 prepay interworking with SCUDIF

Discussion: The service requirement was approved during CN2-SA1 Joint meeting. This document presents work item description for CAMEL4 prepay interworking with SCUDIF. Supporting companies Nokia, Ericsson, Nortel Networks, NTT DoCoMo and NEC will be added to this document.

We may need a subset for this service. Work Item shall leave this question open and CN2 will decide later.

T-Mobil and Siemens wonder whether SCP should control the service. The protocol allows the SCP to release a control.

If the basic service has changed to multimedia, can we still apply the CPH? IF we would apply CPH, the video stream is lost. When the change back to speech is done, CPH could be applied as well. This is still opened issue, and will be decided later. Anyway, CPH is applied only to speech calls.

Alcatel is proposing to clarify in the text of the WI, that the WI reflects to Release 6 only (to bullet#3 only). The WI has been decided by CN2, CN3 and CN4.

Reporting is done at active phase of the call ("any phase of the call" will be replaced by "active phase of the call")

Conclusion: revised to N2-030580

N2-030580: WID, Nokia, Type: CR, Title: CAMEL4 prepay interworking with SCUDIF

Discussion: In the list of affected specifications, TS 23.172 is added offline. Contributions to TS 23.172 are expected (It has to be indicated when we call CAMEL procedure for change of basic service.)

Conclusion: approved, will be sent to CN plenary for approval

8.4   Change of position

N2-030480: TS 23.078, Rel-6, Alcatel, Type: CR, CR#647, Title: Enhancements for the Partial Implementation for "Change of position procedure armed with criteria"

Discussion: In the description of the Criteria for Change Of Position DP, the "criteria for requesting the report" shall be change to "the criteria for reporting". According to Siemens, ChangOfPosition "subset" shall be also supported. Similar dependency is not explained for alerting DP and location at alerting DP.

T-Mobil commented that in the description of the IE, the "Criteria" shall be written with lower case.

Conclusion: revised to N2-030561

N2-030561: TS 23.078, Rel-6, Alcatel, Type: CR, CR#647r1, Title: Enhancements for the Partial Implementation for "Change of position procedure armed with criteria"

Discussion:

Conclusion: conditionally approved without presentation. Condition is CN4 approval of N2-030481 or its revision.

N2-030481: TS 29.002, Rel-6, Alcatel, Type: CR, Title: Enhancements for the Partial Implementation for "Change of position procedure armed with criteria

Discussion:

Conclusion: approved by CN4 (N4-031089) and endorsed by CN2 in the CN2/CN4 joint meeting

N2-030523: TS 22.078, Rel-6, Siemens, Type: CR, Title: Add criteria "inter-MSC handover" for change of position procedures

Discussion: S1-031128

Conclusion: revised to N2-030540

N2-030540: TS 22.078, Rel-6, Siemens, Type: CR, Title: Add criteria "inter-MSC handover" for change of position procedures (S1-031194)

Discussion: The document was presented in the CN2-SA1 Joint meeting .

Conclusion: CN2 endorsed, SA1 agreed during the joint meeting with CN2 and will be presented to SA1 plenary for approval in S1-031194 which was further approved in SA1 plenary.

N2-030524: TS 23.078, Rel-6, Siemens, Type: CR, Title: Change of position armed with criteria (check criteria in MSC)

Discussion: The document is almost the same as the document which was postponed in the last meeting. If the document is agreed, it will be revised to be based on the latest version of the specification.

If 2G and 3G of the same operator has different MCC+MNC, and if the handover occurs, is it identified as inter-PLMN handover? Yes, MCC+MNC shows the PLMN. If we have different MNCs, but networks are defined as equivalent, is this the case of inter PLMN handover? If 2 PLMN codes are regarded as equivalent and we make HO between them, is it inter-PLMN handover? This shall be documented and clarified.

How the networks are distinguished? MNC is decisive factor and that shall be documented..

If one operator has two MNCs how to know by the MS that they belong to the same operator? To define them as equivalent.

CN2 shall decide what is the exact criteria for the inter PLMN handover. It should be described that it is MCC+MNC which decides the factor and it should be known if they are defined as equivalent PLMNs.

Working assumption:

If the combination of MCC+MNC is changed, the handover is regarded as inter-PLMN handover.

Complete information flows will be copied from N2-030541 to the revision of N2-030524 (comments to information flows in N2-030541 should be given to Siemens)

Latest specification version is 5.5.1 and base SDL is different than in the version used for this CR , therefore the CR should be applied to the latest version.

Conclusion: revised to N2-030581

N2-030581: TS 23.078, Rel-6, TEI_6, Siemens, Type: CR, CR#6454, Title: Change of position armed with criteria (check criteria in MSC)

Discussion: All the changes agreed during the discussion of N2-030524 are reflected in the sheet 1(1) of the ProcedureCheck_Criteria_Change_Of_Position.

The introduction of the task box "Store current location" will be cancelled. Location is already stored in VLR, therefore the "Store current location" is not necessary.

Conclusion: revised to N2-030587

N2-030587: TS 23.078, Rel-6, TEI_6, Siemens, Type: CR, CR#645r14, Title: Change of position armed with criteria (check criteria in MSC)

Discussion:

Conclusion: approved without presentation

N2-030525: TS 23.078, Rel-6, Siemens, Type: CR, Title: Change of position armed with criteria (check criteria in SSF)

Discussion:

Conclusion: revised to N2-030541

N2-030541: TS 23.078, Rel-6, Siemens, Type: CR, Title: Change of position armed with criteria (check criteria in SSF)

Discussion: The document is withdrawn due to conclusion from the last meeting to have triggering criteria in MSC.

Conclusion: withdrawn

N2-030526: TS 29.078, Rel-6, TEI_6, Siemens, Type: CR, Title: Change of position armed with criteria

Discussion: A number of editorial comments were provided:

"CellId contains a Cell Global Identification" will be replaced by "CellGlobalId shall contain a Cell Global Identification".

"," is added before the parameter "DpSpecificCriteriaAlt" was introduced.

Category is "B", CR number is 343.

Conclusion: revised to N2-030582

<u>N2-030582:</u> TS 29.078, Rel-6, TEI_6, Siemens, Type: CR, CR#343 , Title: Change of position armed with criteria

Discussion: Bound parameter can have non bound sub parameters. "ChangeOfLocation" and "ChangeOfLocationAlt" shall be bound parameters.

"Are" is changed to "Area". CR number is missing in the cover page.

Conclusion: revised to N2-030585

<u>N2-030585:</u> TS 29.078, Rel-6, TEI_6, Siemens, Type: CR, CR#343r1, Title: Change of position armed with criteria

Discussion:

Conclusion: approved without presentation

9 Review of dates and hosts for future meetings

Review of the N2 meeting schedule for 2004

TITLE	TYPE	DATES	LOCATION	CTRY
3GPPCN2#32	WG	16th-20th February	Atlanta	USA
3GPPCN2#33	WG	10th-14th May	Zagreb	Croatia

CN2#33 meeting in Zagreb will be the last CN2 meeting. After plenary in June, CN2 will merge with CN4. Remaining CAMEL issues will be dealt within CN4.

10 Closing of the meeting (15:30 Friday)

- Release 6 specifications for CAMEL phase 4 (TS 23.078 and TS 29.078) will be created after the CN#22 plenary meeting in December. Collective CRs will be sent by CN2 and CN4 to CN#22 for approval. TS 23.278 and TS 29.278 will be automatically upgraded to Release 6 specifications after the CN#23 in March.

-The table showing the contents of each CAMEL phase will be published in the CN2 web page, as well as the document that lists CN2 principal decisions for CAMEL phase 4.

- EDS, CAMEL phase 4 functionalities and Change of Position reporting. MAP import modules shall be updated.

- Deadlines for the meeting in February:

  - the deadline to submit request for document numbers is 9th of February 2004 , 12:00 CET

  - the deadline to send actual documents is: 9th of February 2004, 23:59 CET

The chairman thanked the delegates for their contributions and closed the meeting on Friday, 15:00.

Annex A   Attendees list

Name	Organization represented	Status, partner	Phone	Fax	e-mail
Ms. Véronique Belfort	ALCATEL S.A.	3GPPMEMBER (ETSI)	+33 1 30 77 86 11	+33 1 30 77 24 99	veronique.belfort@alcatel.fr
Mr. Sumio Miyagawa	SIEMENS AG	3GPPMEMBER (ETSI)	+43 51707 21381	+43 51707 51924	sumio.miyagawa@siemens.com
Mr. Hyung Joon Cho	SK Telecom	3GPPMEMBER (TTA)	+82-31 710 5235	+82-31 710 5299	hjcho@sktelecom.com
Mr. Patrice Hédé	ERICSSON LM	3GPPMEMBER (ETSI)	+4924075758058	+492407575477	patrice.hede@ericsson.com
Mr. Noriyuki Iwasawa	NEC Corporation	3GPPMEMBER (TTC)	+81 3 3798 5194	+81 3 5232 6353	iwasawa@ss3.ncos.nec.co.jp
Mrs. Andrijana Jurisic	Mobile Competence Centre		+33 4 92 94 43 09	+33 4 92 38 52 52	andrijana.jurisic@etsi.org
Mr. Kazuyuki Kozu	NTT DoCoMo Inc.	3GPPMEMBER (TTC)	+81-46-840-3370	+81-468403860	kozu@nw.yrp.nttdocomo.co.jp
Mr. Juha Lehtikangas	TeliaSonera AB	3GPPMEMBER (ETSI)	+358405274921	+358204071257	juha.lehtikangas@teliasonera.com
Dr. Adrian Neal	VODAFONE LTD	3GPPMEMBER (ETSI)	+44 1635685834	+44 1635686483	adrian.neal@gb.vodafone.co.uk
Mr. Rogier Noldus	ERICSSON LM	3GPPMEMBER (ETSI)	+31 161 249 400	+31 161 249 904	rogier.noldus@ericsson.com
Mr. Keijo Palviainen	NOKIA Corporation	3GPPMEMBER (ETSI)		+358 7180 64760	keijo.palviainen@nokia.com
Dr. Daniel Warren	NORTEL NETWORKS (EUROPE)	3GPPMEMBER (ETSI)	+44 1628 431098	+44 1628 437310	dlwarren@nortelnetworks.com
Dr. Georg Wegmann	T-MOBILE DEUTSCHLAND	3GPPMEMBER (ETSI)	+49 228 936 33468	+49 228 936 33339	georg.wegmann@t-mobile.de

Annex B   Output Documents

Endorsed Change Requests for CAMEL Phase 2

TDoc #	WI	Rel	Title	Spec	Ca	Rev	Versi	Conclusion	Source
N2-030505	CAMEL2	R98	MAP and CAP 3G SAI mapping to 2G CellIDorLAI Location Information parameter	03.18	A		7.4.0	endorsed	Nokia
N2-030544	CAMEL2	R97	MAP and CAP 3G SAI mapping to 2G CellIDorLAI Location Information parameter	03.18	F		6.7.0	endorsed	Nokia

Approved Change Requests for Rel-5 WI CAMEL4

TDoc #	WI	Rel	Title	Spec	CR	C	Rev	Versi	Conclusio	Source
N2-030485	CAMEL4	Rel-5	Correction to flexible warning tone burst interval duration	29.078	333	F		5.5.0	approved	Ericsson
N2-030487	CAMEL4	Rel-5	Correction to MAP SRI between gsmSCF and HLR - Supported CAMEL Phases shall be	23.078	627	F		5.5.1	approved	Ericsson
N2-030494	CAMEL4	Rel-5	Correction to TCAP rules for gsmSCF initiated calls	29.078	335	F		5.5.0	approved	Ericsson
N2-030497	CAMEL4	Rel-5	Handling AC Pending if ETC/ CTR fails	23.078	613	F	1	5.5.1	approved	Nortel Networks
N2-030498	CAMEL4	Rel-5	Remove contents table for MNP Requested Info parameter	23.078	629	F		5.5.1	approved	Ericsson
N2-030539	CAMEL4	Rel-5	Using Suppress T-CSI in ICA for NP call legs	23.078	641	F		5.5.1	approved	Ericsson
N2-030547	CAMEL4	Rel-5	SDL handling of DisconnectFromIPForbidden in Assisting SSF case	23.078	634	F	1	5.5.1	approved	Nokia
N2-030554	CAMEL4	Rel-5	CAMEL DP Leg Handling	23.078	624	F	1	5.5.1	approved	Alcatel
N2-030555	CAMEL4	Rel-5	Correction to description of "valid CSI" in SCP initiated call	29.078	337	F	1	5.5.0	approved	Ericsson
N2-030556	CAMEL4	Rel-5	Removal of Int_Continue from process ICA_MSC	23.078	628	F	1	5.5.1	approved	Ericsson
N2-030557	CAMEL4	Rel-5	CAMEL User interaction at alerting and MidCall	23.078	636	F	1	5.5.1	approved	Nokia
N2-030559	CAMEL4	Rel-5	Inclusion of DP O_Term_Seized in CAMEL Phase 4 Partial Implementation	23.078	643	F		5.5.1	approved	Siemens AG
N2-030562	CAMEL4	Rel-5	Handling of DisconnectFromIPForbidden in Assisting SSF case	29~~3~~.078	342	F	1	5.5.~~1~~0	approved	Nokia

N2-030563	CAMEL4	Rel-5	Reporting Basic Service at DP Answer for SCUDIF calls	23.078	633	F	1	5.5.1	approved	Ericsson
N2-030564	CAMEL4	Rel-5	Reporting Basic Service at DP Answer for SCUDIF calls	29.078	336	F	1	5.5.0	approved	Ericsson
N2-030567	CAMEL4	Rel-5	Extension of QoS for HSDPA in GPRS CAMEL	23.078	637	F	3	5.5.1	approved	NEC
N2-030568	CAMEL4	Rel-5	Extension of QoS for HSDPA in GPRS CAMEL	29.078	340	F	3	5.5.0	approved	NEC
N2-030576	CAMEL4	Rel-5	Correction to Disconnect Leg handling – gsmSSF shall send charging reports	23.078	644	F		5.5.1	approved	Ericsson
N2-030577	CAMEL4	Rel-5	CLIR/CLIP interaction with CSE initiated calls	23.078	568	F	2	5.5.1	approved	Nokia
N2-030578	CAMEL4	Rel-5	CAMEL Leg Handling	23.078	619	F	3	5.5.1	approved	Alcatel
N2-030579	CAMEL4	Rel-5	Correction to MAP SRI between gsmSCF and HLR - HLR shall use TS11	23.078	631	F	2	5.5.1	approved	Ericsson
N2-030583	CAMEL4	Rel-5	More call related CAPv4 extentensions for future releases	29.078	338	F	2	5.5.0	approved	Nokia
N2-030584	CAMEL4	Rel-5	Use of Continue With Argument for gsmSCF initiated calls	23.078	642	F	1	5.5.1	approved	Alcatel

Rel-5 CAMEL4 CR for e-mail approval

TDoc #	Title	Source	WI	CR #	R	Cat	Spec	Rel	Versi	Conclusion
N2-030557	CAMEL User interaction at alerting and MidCall	Nokia	CAMEL4	636	1	F	23.078	Rel-5	5.5.1	~~e-mail approval~~approved by e-mail

The deadline for rejection is 7th of November 2003, end of the day.

Approved CR for Rel-5 WI IMS-CAMEL

TDoc #	Spec	CR	Rev	Cat	Versi	WI	Title	Conclusio	Rel
N2-030565	23.278	46	1	F	5.4.0	IMS-CAMEL	Correction to the definition of interfaces for the IM-SSF	approved	Rel-5

Approved and endorsed CRs on Rel-6 WI EDCAMEL (Enhanced dialled services for CAMEL)

TDoc #	WI	Rel	Title	Type	Spec	CR	C	Rev	Versio	Conclusio	Source
N2-030508	EDCAMEL	Rel-6	Collective CR for Rel-6 Enhanced Dialled Services	CR	23.018	126	B	1	5.9.0	endorsed	Nokia
N2-030510	EDCAMEL	Rel-6	Collective CR for Rel-6 Enhanced Dialled Services	CR	29.002		B		6.3.0	endorsed	Nokia

N2-030560	EDCAMEL	Rel-6	MoveLeg precondition for Rel-6 EDS (DP3)	CR	29.078		F	1	5.5.0	approved	Nokia
N2-030569	EDCAMEL	Rel-6	23.078-CR553 Collective CR for Rel-6 Enhanced Dialled Services	CR	23.078	553	B	3	5.5.1	approved	Nokia
N2-030570	EDCAMEL	Rel-6	Collective CR for Rel-6 Enhanced Dialled Services	CR	29.078	332	B	1	5.5.0	approved	Nokia

Approved CRs for Rel-6 WI TEI_6

TDoc #	WI	Title	Spec	CR	Cat	Rev	Versio	Rel	Conclusio	Source
N2-030561	TEI_6	Enhancements for the Partial Implementation for "Change of position procedure armed with	23.078	647	B	1	5.5.1	Rel-6	approved	Alcatel
N2-030585	TEI_6	Change of position armed with criteria	29.078	343	F	1	5.5.0	Rel-6	approved	Siemens AG
N2-030587	TEI_6	Change of position armed with criteria (check criteria in MSC)	23.078	645 4	B	1	5.5.1	Rel-6	approved	Siemens AG

Approved WID

TDoc #	WI	Rel	Title	Conclusion	CN2 meeting	Source
N2-030580	CAMEL4	WID	CAMEL4 prepay interworking with SCUDIF	approved	CN2#31	Nokia

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Annex C   List of Documents

TDoc #	Type	Title	Source	WI	Spec	CR	R	C	Rel	Versi	Conclusio
N2-030473	Agenda	Agenda	CN2 chairman								approved
N2-030474	Agenda	Allocation of documents to agenda items	CN2 chairman								noted
N2-030475	Report	CN2#30 Draft meeting report	MCC								approved
N2-030476	Report	CN#21 Draft meeting report	MCC								noted
N2-030477	LS IN	LS on Clarification on Presence Service Matters	CN4								noted
N2-030478	CR	CAMEL Leg Handling	Alcatel	CAMEL4	23.078	619	1	F	Rel-5	5.5.1	revised to N2-030553

N2-030479	CR	CAMEL DP Leg Handling	Alcatel	CAMEL4	23.078	624		F	Rel-5	5.5.1	revised to N2-030554
N2-030480	CR	Enhancements for the Partial Implementation for "Change of position procedure armed with	Alcatel	TEI_6	23.078	647		B	Rel-6	5.5.1	revised to N2-030561
N2-030501	WID	CAMEL4 prepay interworking with SCUDIF	Nokia	CAMEL4							revised to N2-030580
N2-030502	CR	CLIR/CLIP interaction with CSE initiated calls (aka S1-031122)	Nokia	CAMEL4	22.078			F	Rel-5	5.10.0	revised to N2-030572
N2-030481	CR	Enhancements for the Partial Implementation for "Change of position procedure armed with	Alcatel	TEI_6	29.002			B	Rel-6	6.3.0	endorsed
N2-030482	CR	CLIR and CAMEL interworking	Alcatel	CAMEL4	22.078			F	Rel-5	5.b.0	withdrawn
N2-030483	CR	CLIR and CAMEL interworking	Alcatel	CAMEL4	22.078			A	Rel-6	6.2.0	withdrawn
N2-030484	CR	CLIR and CAMEL interworking relative to ICA call and ICA leg	Alcatel	CAMEL4	23.078	625		F	Rel-5	5.5.1	withdrawn
N2-030485	CR	Correction to flexible warning tone burst interval duration	Ericsson	CAMEL4	29.078	333		F	Rel-5	5.5.0	approved
N2-030486	CR	Correction to description of "valid CSI" in SCP initiated call	Ericsson	CAMEL4	29.078	337		F	Rel-5	5.5.0	revised to N2-030555
N2-030487	CR	Correction to MAP SRI between gsmSCF and HLR - Supported CAMEL Phases	Ericsson	CAMEL4	23.078	627		F	Rel-5	5.5.1	approved
N2-030488	CR	Removal of Int_Continue from process ICA_MSC	Ericsson	CAMEL4	23.078	628		F	Rel-5	5.5.1	revised to N2-030556
N2-030489	CR	Correction to MAP RCH - GMSC shall check Supported CAMEL4 subsets	Ericsson	CAMEL4	23.079			F	Rel-5	5.3.0	revised to N2-030552
N2-030490	CR	Correction to CAP ICA - addition of Additional Calling Party Number	Ericsson	CAMEL4	23.078	630		F	Rel-5	5.5.1	withdrawn
N2-030491	CR	Correction to CAP ICA - addition of Additional Calling Party Number	Ericsson	CAMEL4	29.078	334		F	Rel-5	5.5.1	withdrawn
N2-030492	CR	Correction to MAP SRI between gsmSCF and HLR - HLR shall use TS11	Ericsson	CAMEL4	23.078	631		F	Rel-5	5.5.1	revised to N2-030558
N2-030493	CR	Impact by LNP and GEA on Destination_Address in Answer	Ericsson	CAMEL4	23.078	632		F	Rel-5	5.5.1	revised to N2-030546
N2-030494	CR	Correction to TCAP rules for gsmSCF initiated calls	Ericsson	CAMEL4	29.078	335		F	Rel-5	5.5.0	approved
N2-030495	CR	Reporting Basic Service at DP Answer for SCUDIF calls	Ericsson	CAMEL4	23.078	633		F	Rel-5	5.5.1	revised to N2-030563
N2-030496	CR	Reporting Basic Service at DP Answer for SCUDIF calls	Ericsson	CAMEL4	29.078	336		F	Rel-5	5.5.0	revised to N2-030564

N2-030497	CR	Handling AC Pending if ETC/CTR fails	Nortel Networks	CAMEL4	23.078	613	1	F	Rel-5	5.5.1	approved
N2-030498	CR	Remove contents table for MNP Requested Info parameter	Ericsson	CAMEL4	23.078	629		F	Rel-5	5.5.1	approved
N2-030499	DISC	CAMEL open issue list	CN2 chairman								revised to N2-030586
N2-030500	CR	CAMEL4 prepay interworking with SCUDIF (aka S1-0311121)	Nokia	CAMEL4	22.078			F	Rel-6	6.1.0	revised to N2-030571
N2-030503	CR	CLIR/CLIP interaction with CSE initiated calls	Nokia	CAMEL4	23.078	568	1	F	Rel-5	5.5.1	revised to N2-030577
N2-030504	CR	MAP and CAP 3G SAI mapping to 2G CellIDorLAI Location Information	Nokia	CAMEL4	03.18			F	R97	6.7.0	revised to N2-030544
N2-030505	CR	MAP and CAP 3G SAI mapping to 2G CellIDorLAI Location Information	Nokia	CAMEL2	03.18			A	R98	7.4.0	endorsed
N2-030506	CR	More spare bits for CAMEL4 enhancements	Nokia	CAMEL4	29.002			F	Rel-5	5.7.0	endorsed
N2-030507	CR	More spare bits for CAMEL4 enhancements	Nokia	CAMEL4	29.002			A	Rel-6	6.3.0	endorsed
N2-030508	CR	Collective CR for Rel-6 Enhanced Dialled Services	Nokia	EDCAMEL	23.018	126	1	B	Rel-6	5.9.0	endorsed
N2-030509	CR	23.078-CR553 Collective CR for Rel-6 Enhanced Dialled Services	Nokia	EDCAMEL	23.078	553	2	B	Rel-6	5.5.1	revised to N2-030569
N2-030510	CR	Collective CR for Rel-6 Enhanced Dialled Services	Nokia	EDCAMEL	29.002			B	Rel-6	6.3.0	endorsed
N2-030511	CR	Collective CR for Rel-6 Enhanced Dialled Services	Nokia	EDCAMEL	29.078	332		B	Rel-6	5.5.0	revised to N2-030570
N2-030512	CR	MoveLeg precondition for Rel-6 EDS (DP3)	Nokia	EDCAMEL	29.078			F	Rel-6	5.5.0	revised to N2-030560
N2-030513	CR	SDL handling of DisconnectFromIPForbidden handling in Assisting SSF case	Nokia	CAMEL4	23.078	634		F	Rel-5	5.5.1	revised to N2-030547
N2-030514	CR	More call related CAPv4 extentensions for future releases	Nokia	CAMEL4	29.078	338		F	Rel-5	5.5.0	revised to N2-030549
N2-030515	CR	Reporting of active basic service at answer due to SCUDIF	Nokia	CAMEL4	23.078	635		F	Rel-5	5.5.1	withdrawn
N2-030516	CR	Reporting of active basic service at answer due to SCUDIF	Nokia	CAMEL4	29.078	339		F	Rel-5	5.5.0	withdrawn
N2-030517	CR	CAMEL User interaction at alerting and MidCall	Nokia	CAMEL4	23.078	636		F	Rel-5	5.5.1	revised to N2-030557
N2-030518	CR	Extension of QoS for HSDPA in GPRS CAMEL	NEC	CAMEL4	23.078	637		F	Rel-5	5.5.1	revised to N2-030532

N2-030519	CR	Extension of QoS for HSDPA in GPRS CAMEL	NEC	CAMEL4	29.078	340		F	Rel-5	5.5.0	revised to N2-030533
N2-030520	CR	Removal of location information at DP O_Term_Seized	Siemens AG	CAMEL4	23.078	638		F	Rel-5	5.5.1	rejected
N2-030521	CR	Removal of location information at DP O_Term_Seized	Siemens AG	CAMEL4	29.078	341		F	Rel-5	5.5.0	rejected
N2-030522	CR	Inclusion of PSI Enhancement IE in VLR - HLR IFs	Siemens AG	CAMEL4	23.078	639		F	Rel-5	5.5.1	rejected
N2-030523	CR for INFO	Add criteria "inter-MSC handover" for change of position procedures	Siemens AG	TEI_6	22.078			F	Rel-6	6.2.0	revised to N2-030540
N2-030524	CR	Change of position armed with criteria (check criteria in MSC)	Siemens AG	TEI_6	23.078			F	Rel-6	5.5.1	revised to N2-030581
N2-030525	CR	Change of position armed with criteria (check criteria in SSF)	Siemens AG	TEI_6	23.078			F	Rel-6	5.5.1	revised to N2-030541
N2-030526	CR	Change of position armed with criteria	Siemens AG	TEI_6	29.078			F	Rel-6	5.5.0	revised to N2-030582
N2-030527	CR	Partial implementation due to change of position armed with criteria	Siemens AG	TEI_6	23.078			F	Rel-6	5.5.1	withdrawn
N2-030528	CR	Partial implementation due to change of position armed with criteria	Siemens AG	TEI_6	29.002			F	Rel-6	6.3.0	withdrawn
N2-030529	WP	Latest version of the work plan	MCC								noted
N2-030530	CR	Correction for data volumn report in GPRS data volumn threshold procedure	CMCC	CAMEL4	22.078			F	Rel-5	5.b.0	noted
N2-030531	CR	Correction for data volumn report in GPRS data volumn threshold procedure	CMCC	CAMEL4	23.078	626		F	Rel-5	5.5.1	noted
N2-030532	CR	Extension of QoS for HSDPA in GPRS CAMEL	NEC	CAMEL4	23.078	637	1	F	Rel-5	5.5.1	revised to N2-030550
N2-030533	CR	Extension of QoS for HSDPA in GPRS CAMEL	NEC	CAMEL4	29.078	340	1	F	Rel-5	5.5.0	revised to N2-030551
N2-030534	CR	Correction to the definition of interfaces for the IM-SSF	Nortel Networks	IMS-CAMEL	23.278	46		F	Rel-5	5.4.0	revised to N2-030565
N2-030535	DISC	Recorded CAMEL4 decisions	CN2 chairman								revised to N2-030545
N2-030536	Info	Contents of each CAMEL phase	CN2 chairman								revised to N2-030543
N2-030537	Disc	Correction for data volume report in GPRS data volume threshold procedure	China mobile								noted
N2-030538	CR	Correction to trigger criteria for forwarded calls	Ericsson	CAMEL4	23.078	640		F	Rel-5	5.5.1	revised to next meeting

N2-030539	CR	Using Suppress T-CSI in ICA for NP call legs	Ericsson	CAMEL4	23.078	641		F	Rel-5	5.5.1	approved
N2-030540	CR for INFO	Add criteria "inter-MSC handover" for change of position procedures	Siemens AG	TEI_6	22.078			F	Rel-6	6.2.0	endorsed
N2-030541	CR	Change of position armed with criteria (check criteria in SSF)	Siemens AG	TEI_6	23.078			F	Rel-6	5.5.1	withdrawn
N2-030542	CR	Use of Continue With Argument for gsmSCF initiated calls	Alcatel	CAMEL4	23.078	642		F	Rel-5	5.5.1	revised to N2-030584
N2-030543	Info	Contents of each CAMEL phase	CN2 chairman								noted
N2-030544	CR	MAP and CAP 3G SAI mapping to 2G CellIDorLAI Location Information	Nokia	CAMEL2	03.18			F	R97	6.7.0	endorsed
N2-030545	DISC	Recorded CAMEL4 decisions	CN2 chairman								noted
N2-030546	CR	Impact by LNP and GEA on Destination_Address in Answer	Ericsson	CAMEL4	23.078	632		F	Rel-5	5.5.1	postponed to next meeting
N2-030547	CR	SDL handling of DisconnectFromIPForbidden in Assisting SSF case	Nokia	CAMEL4	23.078	634	1	F	Rel-5	5.5.1	approved
N2-030548	CR	Handling of DisconnectFromIPForbidden in Assisting SSF case	Nokia	CAMEL4	29~~3~~.078	342		F	Rel-5	5.5.~~1~~0	revised to N2-030562
N2-030549	CR	More call related CAPv4 exten~~ten~~sions for future releases	Nokia	CAMEL4	29.078	338	1	F	Rel-5	5.5.0	revised to N2-030583
N2-030550	CR	Extension of QoS for HSDPA in GPRS CAMEL	NEC	CAMEL4	23.078	637	2	F	Rel-5	5.5.1	revised to N2-030567
N2-030551	CR	Extension of QoS for HSDPA in GPRS CAMEL	NEC	CAMEL4	29.078	340	2	F	Rel-5	5.5.0	revised to N2-030568
N2-030552	CR	Correction to MAP RCH - GMSC shall check Supported CAMEL4 subsets	Ericsson	CAMEL4	23.079		1	F	Rel-5	5.3.0	endorsed
N2-030553	CR	CAMEL Leg Handling	Alcatel	CAMEL4	23.078	619	2	F	Rel-5	5.5.1	revised to N2-030578
N2-030554	CR	CAMEL DP Leg Handling	Alcatel	CAMEL4	23.078	624	1	F	Rel-5	5.5.1	approved
N2-030555	CR	Correction to description of "valid CSI" in SCP initiated call	Ericsson	CAMEL4	29.078	337	1	F	Rel-5	5.5.0	approved
N2-030556	CR	Removal of Int_Continue from process ICA_MSC	Ericsson	CAMEL4	23.078	628	1	F	Rel-5	5.5.1	approved
N2-030557	CR	CAMEL User interaction at alerting and MidCall	Nokia	CAMEL4	23.078	636	1	F	Rel-5	5.5.1	~~e-mail approval~~approved
N2-030558	CR	Correction to MAP SRI between gsmSCF and HLR - HLR shall use TS11	Ericsson	CAMEL4	23.078	631	1	F	Rel-5	5.5.1	revised to N2-030579

N2-030559	CR	Inclusion of DP O_Term_Seized in CAMEL Phase 4 Partial	Siemens AG	CAMEL4	23.078	643		F	Rel-5	5.5.1	approved
N2-030560	CR	MoveLeg precondition for Rel-6 EDS (DP3)	Nokia	EDCAMEL	29.078		1	F	Rel-6	5.5.0	approved
N2-030561	CR	Enhancements for the Partial Implementation for "Change of position procedure armed with	Alcatel	TEI_6	23.078	647	1	B	Rel-6	5.5.1	approved
N2-030562	CR	Handling of DisconnectFromIPForbidden in Assisting SSF case	Nokia	CAMEL4	29.078	342	1	F	Rel-5	5.5.0	approved
N2-030563	CR	Reporting Basic Service at DP Answer for SCUDIF calls	Ericsson	CAMEL4	23.078	633	1	F	Rel-5	5.5.1	approved
N2-030564	CR	Reporting Basic Service at DP Answer for SCUDIF calls	Ericsson	CAMEL4	29.078	336	1	F	Rel-5	5.5.0	approved
N2-030565	CR	Correction to the definition of interfaces for the IM-SSF	Nortel Networks	IMS-CAMEL	23.278	46	1	F	Rel-5	5.4.0	approved
N2-030566	CR	Using Suppress T-CSI in ICA for NP call legs	Ericsson	CAMEL4	22.078			F	Rel-5	5.11.0	revised to N2-030574
N2-030567	CR	Extension of QoS for HSDPA in GPRS CAMEL	NEC	CAMEL4	23.078	637	3	F	Rel-5	5.5.1	approved
N2-030568	CR	Extension of QoS for HSDPA in GPRS CAMEL	NEC	CAMEL4	29.078	340	3	F	Rel-5	5.5.0	approved
N2-030569	CR	23.078-CR553 Collective CR for Rel-6 Enhanced Dialled Services	Nokia	EDCAMEL	23.078	553	3	B	Rel-6	5.5.1	approved
N2-030570	CR	Collective CR for Rel-6 Enhanced Dialled Services	Nokia	EDCAMEL	29.078	332	1	B	Rel-6	5.5.0	approved
N2-030571	CR	CAMEL4 prepay interworking with SCUDIF	Nokia	CAMEL4	22.078		1	F	Rel-6	6.1.0	endorsed
N2-030572	CR	CLIR/CLIP interaction with CSE initiated calls (aka S1-031122)	Nokia	CAMEL4	22.078			F	Rel-5	5.10.0	endorsed
N2-030573	CR	CLIR/CLIP interaction with CSE initiated calls (aka S1-031122)	Nokia	CAMEL4	22.078			F	Rel-6	6.2.0	endorsed
N2-030574	CR	Using Suppress T-CSI in ICA for NP call legs	Ericsson	CAMEL4	22.078			F	Rel-5	5.11.0	endorsed
N2-030575	CR	Using Suppress T-CSI in ICA for NP call legs	Ericsson	CAMEL4	22.078			A	Rel-6	6.2.0	endorsed
N2-030576	CR	Correction to Disconnect Leg handling – gsmSSF shall send charging reports	Ericsson	CAMEL4	23.078	644		F	Rel-5	5.5.1	approved
N2-030577	CR	CLIR/CLIP interaction with CSE initiated calls	Nokia	CAMEL4	23.078	568	2	F	Rel-5	5.5.1	approved
N2-030578	CR	CAMEL Leg Handling	Alcatel	CAMEL4	23.078	619	3	F	Rel-5	5.5.1	approved

N2-030579	CR	Correction to MAP SRI between gsmSCF and HLR - HLR shall use TS11	Ericsson	CAMEL4	23.078	631	2	F	Rel-5	5.5.1	approved
N2-030580	WID	CAMEL4 prepay interworking with SCUDIF	Nokia	CAMEL4					WID		approved
N2-030581	CR	Change of position armed with criteria (check criteria in MSC)	Siemens AG	TEI_6	23.078	64~~4~~5		B	Rel-6	5.5.1	revised to N2-030587
N2-030582	CR	Change of position armed with criteria	Siemens AG	TEI_6	29.078	343		F	Rel-6	5.5.0	revised to N2-030585
N2-030583	CR	More call related CAPv4 exten~~ten~~sions for future releases	Nokia	CAMEL4	29.078	338	2	F	Rel-5	5.5.0	approved
N2-030584	CR	Use of Continue With Argument for gsmSCF initiated calls	Alcatel	CAMEL4	23.078	642	1	F	Rel-5	5.5.1	approved
N2-030585	CR	Change of position armed with criteria	Siemens AG	TEI_6	29.078	343	1	F	Rel-6	5.5.0	approved
N2-030586	DISC	CAMEL open issue list	CN2 chairman								noted
N2-030587	CR	Change of position armed with criteria (check criteria in MSC)	Siemens AG	TEI_6	23.078	64~~4~~5	1	B	Rel-6	5.5.1	approved