

3GPP TSG_CN
Plenary Meeting #9, Oahu, Hawaii
20th – 22nd September 2000.

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Draft Report
TSG CN WG2#13
Seattle, US
28 August - 1 September 2000

Chairman: Keijo Palviainen (Nokia)
Secretary: Monica Hellman (3GPP support team)
Host: The North American 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_13_Seattle/Docs/

1 Opening of the meeting and approval of the agenda

The chairman opened the meeting and welcomed everybody to Seattle, US.

N2-000352, source Chairman: *Agenda*

The chairman presented the proposed agenda. A previous one has been sent out on e-mail. And the proposed agenda has been updated accordingly.

Conclusion: Approved

2 Allocation of documents to agenda items

N2-000353, source Chairman: *Document allocation*

The Chairman presented the proposed document allocation towards the agenda, that were sent out on Friday last week. It includes the document that were available on Friday morning.

Discussion: N2-000368 from document from Lucent is a phase 3 document and was moved to the right agenda item.

Document N2-000382 was withdrawn.

Document N2-000395 is a late CAMEL phase 4 contribution from Ericsson.

The latest workplan will be distributed in document N2-000396.

Document N2-000318 presented at the last meeting shall be endorsed in this meeting.

The Document allocation towards the agenda were approved with the proposed changes.

Conclusion: Approved

3 Reports

3.1 Review of report from N2, (Helsinki meeting)

N2-000354, source MCC: *Helsinki Meeting Report*

Monica Hellman presented the report from the last meeting. The draft version has been on the server for a week. Some comments has been received and the report has been update.

Discussion: The content of the discussion of document N2-000301 shall be updated. The revised document of that document shall be N2-000330.

In the report there is no conclusion for documents that were not available at the meeting and therefore will be submitted to the next meeting. The conclusion shall be postponed, for these documents.

Conclusion: Noted

4 Input liaison statements

N2-000364, source S1: *LS on Support of VHE User Profiles*

S1 would like to have some clarifications of the effects

Discussion: What is the user id.and eq. Id. ?Do we foresee the terminal capabilities? No it should not dependent on the terminal capabilities.

What is really stored in the HSS? There is not any cleared agreement, yet. The understanding is that S1 ask N2 about what shall the datamodule be in the HSS.

BT mentioned the IP telephony that the requirement is very simuler to the CS. The requirement for IM domain is different.

David Smith is volontered to draft an LS back to S1. He is also taking care of the wording of the answer of the second question.

Conclusion: Noted

N2-000417, source T3: *LS on Support of Bookmarks / VHE User Profiles*

A short time of silence to let the delegates to read the LS. It was addressed to S1 and was sent as a copy to N2.

Discussion: No comments.

Conclusion: Noted

N2-000398, source BT: *Reply to LS on Support of VHE User Profiles*

Instead of presenting the document, the delegates read the proposed reply to S1 prepared by David Smith.

Discussion: Editorial changes: "cleat" should be "clear" in the conclusion.

CN4 shall be N4. In the last sentence R00 shall be added. In all the CRs a contactperson shall be included. Anytime Interrogation shall be changed to Anytime subscription Interrogation

Conclusion: Revised in N2-000433

N2-000433, source BT: *Reply to LS on Support of VHE User Profiles*

Revised document of N2-000398.

Discussion: Approved without presentation

Conclusion: Approved

5 Work item management & miscellaneous

N2-000318, source MCC: *N2 specification list*

21.978: Feasibility Technical Report – CAMEL Control of VoIP Services. Rapporteur-David Smith. The document. Version 7.1.0 shall be R98. Both for 09.78 and 03.78.

23.018-Vodafone (Ruth Hewson and Ian Park), 23.008-Isabelle Lantelme, 23.016-Albert Kain, 29.002-Rogier Noldus are the responsible for the changes for CAMEL phase 4 in the specifications belonging to N4.

Discussion: The revised document will be sent to the plenary for information.

Conclusion: Revised in N2-000399

N2-000399, source : *N2 list of document and rapporteurs*

The updated document will be sent to the plenary without furter presentation in N2.

Conclusion: Approved

N2-000396, source MCC: *Work Plan 000825*

Monica Hellman presented the N2 WI in the workplan. It hasn't been agreed in SA yet and it doesn't reflect what N2 is working on at the moment. N2 wanted it to be updated.

Discussion: Keijo Palviainen, Michel, Monica Hellman and Michael Clayton will discuss and update the document with the working assumptions.

The CAMEL control over VoIP has been moved to Phase 5 in the workplan. No one knows why it has been changed or by who. Some work has been going on before and N2 will continue that work even though it's a risk that it will be moved to phase 5.

The timeschedule for the work: 3 meetings are remaining during this year. A rough estimation is that in mid next year stage 2 will be finalised. Stage 3 will be ready in September next year. David Smith had estimated that IP telephony can be ready in March next week. It was agreed that there would be a whole package delivery of CAMEL phase 4.

The discussion about the timeschedule for IP telephony will continue later on.

The outcome of the discussion will be put into the N2 status report to Hawaii.

Conclusion: Noted

N2-000397, source CN chairman: *Output from the SA drafting meeting last week.*

Jan presented the contribution that is a summary from the SA drafting session presented via e-mail by the CN chairman.

Discussion: The document a summary from the ad hoc meeting last week it also explains the background. previous discussion. It was noted that the document is the CN Chairmans report and not an official report of the meeting.

Conclusion: Noted

5.1 SPAN3 issues, if any

N2-000379, source C. Homann; Alcatel: *Provision of Draft ETSI EN 301 931 V1.1.1 (INAP CS3)*

Christian Homann presented the document that is the draft specification that is out for public inquiry.

Discussion: Christian Homann suggested this can be used when as Basic material for call party.

Conclusion: Noted

6 CAMEL Phase 3

6.1 Miscellaneous

N2-000355, CR xxx rev 0 (cat F) on 23.018, source Vodafone: *Update of CAMEL references*

Ian Park presented the document. The contribution is tidying up the references in 23.018. For example, some procedures were described as "specific to CAMEL Phase 2", but the procedures are also used for CAMEL Phase 3 etc.

Discussion: The procedure name CHECK shall be spelled in capital letter.

Conclusion: Revised in N2-000400

N2-000400, CR xxx rev 1 (cat F) on 23.018, source Vodafone: *Update of CAMEL references*

The document is a revised version of N2-000355.

Discussion: Endorsed by N2 without further presentation.

Conclusion: Endorsed

N2-000387, source Rapporteur 23.078: *3G TS 23.078 as the output of N2#12*

Sumio Miyagawa presented the draft version of phase 3 included the agreed CR but not the controversial ones, incorporated by him and Christian Homann. He informed that three corrections has been done since the earlier draft version.

Discussion: If you find any errors please notify Sumio Miyagawa or Christian Homann about this. The document is just for N2 internal use and therefore no CRs shall be written to this draft version, it shall be written on the official version that's on the 3GPP server. Monica Hellman commented that one of the agreed CR at the last meeting has been revised and agreed at this meeting.

Conclusion: Noted

6.2 GPRS

N2-000302, CR --- (cat F) on 23.060, source Alcatel: *Details on CAMEL interworking*

Christian Homann presented the document.

Discussion: The content of the document is in line with the other contribution from Alcatel to 23.078 in document N2-000391.

The comment "changes shall be done as following" shall not be added in this way in a CR.

On page 4 a reference is added a second time.

Page 7 in the end of the page "several time one per" shall be "several times once per". This is applicable on several pages.

Page 38 procedure C1 is remained.

On the last page CAMEL-O_SMS_SUBMITTED shall be CAMEL_O_SMS_SUBMITTED this is a generic fault through the whole document.

Release context shall be removed since it's not applicable here. Release session and abort session shall be used since there is no context yet.

In the MS detach procedure, an extra box shall be added after delete PDP.

In figure 23 an extra box after the response from the delete PDP

In figure 24 the extra box shall be included after arrow 5. C1 shall be moved to after the responses to the delete PDP.

In the intra SGSN Routing Area Update Procedure, only continue is possible and the abort and release- sessions shall be deleted in the description of C1.

Conclusion: Revised in N2-000401

N2-000401, CR --- (cat F) on 23.060, source Alcatel: *Details on CAMEL interworking*

The document is a revision of N2-000302.

Discussion: There were some minor comments and remarks. Christian Homann will revised the document and Alcatel will send the document to S2.

Conclusion: Revised in N2-000429

N2-000429, CR --- rev (cat F) on 23.060, source Alcatel: *Details on CAMEL interworking*

The document is a revision of N2-000302.

Discussion: Endorsed by N2 without further presentation.

Conclusion: Endorsed

N2-000334, CR 194 rev 1 (cat F) on 23.078, source Ericsson: *Corrections on GPRS*

Rogier Noldus started the presentation to distribute some coloured hardcopies to interested delegates. Then he started to present the changes done since the last presentation of this CR that was held in Helsinki. CAP_Entity_release in sheet 8(17) shall be deleted. Sheet Process_GPRS_dialogue_handler shall be updated.

Discussion: The new box in sheet 12(17) shall be a procedure box.

Keijo Palviainen added that he has another CR that has impact on sheet 17(17). His CR cleans up the use of the store and pending of CS advice of charge. Stored E-parameters are the ones waiting for tariffswitch.

On page 30 clause 6.5.3.1 the use of e-parameters and advice of charge was discussed but there was no conclusion on it. The issues was left open and if it's necessary Nokia will prepare a CR on it.

Comments to the procedure CAMEL_GPRS_attatch on page 18, the propose change of it to detach shall be deleted. Eventually it was renamed to abort

Set user GPRS references was proposed to be deleted. Keijo Palviainen had interventions to it. Text will be added just after the header with a pointer to sheet two.

Page 48 the text in desitionbox shall not be doted.

The text at page 7 "See clause 11 for the handling of this flag" was deleted due to consistensies with other clauses.

In subclause 6.4.2.1.2 The Exit events:

-A GPRS Detach request is received from the MS or the GGSN (DP Detached). GGSN was proposed to be changed. It will be checked off line. The behavior of SGSN can't be mandated but the behavior SSF can be mandated.

It was the commen agreement that both time and volume reports will be sent when one of them has expired. In in which order they shall be sent was further discussed. Eventually it was decided that it shall be sent in fixed order, (first time and then volume)

How the SGSN is releaseing the session and PDP context and when, was still an open issue after the discussion.

Conclusion: Revised in N2-000405

N2-000405, CR 194 rev 2 (cat F) on 23.078, source Ericsson: *Corrections on GPRS*

Revised document of N2-000334. Rogier Noldus gave on overview of what has been changed since the last presentation.

Discussion: This was a discussion about the text of Process GPRS_Dialogue_Handler. The wording in the third bullet will be changes. It will be changed to gprsSSF

Change from detach to abort.

Procedure shall be inline with the CR from Alcatel. TC and TCAP shall be used concisently.

Conclusion: Revised in N2-000438

N2-000438, CR 194 rev 3 (cat F) on 23.078, source Ericsson: *Corrections on GPRS*

Revised version of N2-000405

Discussion: For e-mail approval. Deadline 11.9.200 at 12.00 CET.

Conclusion: For e-mail approval

N2-000391, CR 200 rev 4 (cat F) on 23.078, source Alcatel: *ACR/AC supervision for GPRS*

Christian Homann presented the changes done since the document was presented the last time in Helsinki.

Discussion: No operation in TC_end is not allowed.

Rogier Noldus had some minor editorial changes on page 4 that were excepted.

The naming and abbreviation will be handled off line.

Apply charging request shall be changed to apply charging report.

In the procedure handle_AC_GPRS the proposed words "and not running" shall be deleted. The left branch shall also be deleted.

Conclusion: Revised in N2-000406

N2-000406, CR 200 rev 5 (cat F) on 23.078, source Alcatel: *ACR/AC supervision for GPRS*

Revised document of N2-000391

Discussion: It may be a clash between this CR and a CR from Ericsson.

One sentence will be removed.

The name scenario will be changed to figure.

There was a proposal to delete the note about the guardtimer. This issue will be open until we seen the CR from Rogier Noldus.

Conclusion: Revised in N2-000435

N2-000435, CR 200 rev 6 (cat F) on 23.078, source Alcatel: *ACR/AC supervision for GPRS*

Revised document of N2-000406

Conclusion: Revised in N2-000439

N2-000439, CR 200 rev 7 (cat F) on 23.078, source Alcatel: *ACR/AC supervision for GPRS*

Revised document of N2-000435.

Discussion: Agreed without presentation.

Conclusion: Agreed

N2-000372, CR 114 (cat F) on 29.078, source Nokia: *Clarification on GPRS dialogue handling in case of TCAP error/abort*

Keijo Palviainen presented the document.

Discussion: At page 4 the proposed text "If the TCAP dialogue is terminated due to such error, also GPRS dialogue shall be terminated." shall be " If the TCAP dialogue is terminated due to such error, also GPRS dialogue shall be closed." Closed shall be used and then the chairman asked if this topic can be closed.

Ian Park asked what's the different between TCAP and TC. Jane Humphrey clarified that in the beginning TCAP was ment to be a part of TC. Now TC contains just TCAP and therefore it is the same and it is recommended to use TC.

In the proposed CR it is a cry for help from an native english speaking person to reword some parts of it to a more understandable text. Ian Park helped the editor with this.

Keijo Palviainen was volontered to provide a purely editorial CR containing a coversheet that proposes to change "TCAP" to "TC", throughout the whole document. It will not contain the whole specification included all the changes.

Conclusion: Revised in N2-000407

N2-000407, CR 114 rev 1 (cat F) on 29.078, source Nokia: *Clarification on GPRS dialogue handling in case of TCAP error/abort*

Revised version of document N2-000372. Keijo Palviainen presented the changes done since the last presentation of the CR.

Discussion: No question, no comments.

Conclusion: Agreed

N2-000373, CR 206 (cat F) on 23.078, source Nokia: *GPRS location information in GPRSEventSpecificInformation*

Keijo Palviainen presented this stage 2 documenta and the corresponding stage 3 CR that is in document N2-000374. Alcatel has another CR in the same area that was presented afterworth and then the two document was discussed at the same time.

Discussion: Michel Grech asked about the alignment in the PDP establishment with the CR that was agreed at the last meeting as a contentius CR with a risk that the plenary reject the CR? Ian Park proposed that a new CR shall be produced and shall be presented for approval if both CRs are approved in the plenary. Keijo Palviainen was volontered to produce such a CR.

Ian Park proposed that Information Element GPRS Event Specific Information shall be mandatory.

The description of "C" where it's never used, shall be deleted.

"e.g. x.25" shall be removed. It was a question if the PDP has to be there. It was agreed that it will be there but a reference to 23.060 shall be added.

Conclusion: Revised in N2-000408

N2-000408, CR 206 rev 1 (cat F) on 23.078, source Nokia: *GPRS location information in GPRSEventSpecificInformation*

Revised document of N2-000373

Discussion: The references in the coversheet to other documents shall be changed to CR - numbers instead since the documents has been revised. Vodafone CR is 23.078-CR188 and the Alcatel CR is 23.078-CR198. This will be changed off line.

Conclusion: Agreed

N2-000374, CR 115 (cat F) on 29.078, source Nokia: *GPRS location information in GPRSEventSpecificInformation*

Discussion: The reference to 23.060 shall be deleted.

Conclusion: Revised to N2-000410

N2-000410, CR 115 rev 1 (cat F) on 29.078, source Nokia: *GPRS location information in GPRSEventSpecificInformation*

Revised document of N2-000374

Discussion: Agreed without further presentation.

Conclusion: Agreed

N2-000378, CR 198 rev 2 (cat F) on 23.078, source Alcatel / Vodafone: *Location Number GPRS*

Christian Homann presented the revised CR that was presented by Isabelle at the previous meeting.

Discussion: Ian Park informed that it's a clash with N2-000329 that was agreed in the last meeting. Vodafone is proposing to reopen the N2-000329 and do the required changes. The new document will be N2-000411.

Conclusion: Agreed

N2-000377, CR 106 rev 2 (cat F) on 29.078, source Alcatel: *Location Number GPRS*

Christian Homann presented the CR. The purpose of the CR is to add the Routing area , and the SLSA id in 29.078.location information gprs.

Discussion: Reference to the routing area identity shall be changed.

Conclusion: Revised in N2-000412

N2-000412, CR 106 rev 3 (cat F) on 29.078, source Alcatel: *Location Number GPRS*

Revised document of N2-000377.

Discussion: Agreed without further presentation.

Conclusion: Agreed

N2-000376, CR 208 (cat F) on 23.078, source Nokia: *SDL modelling and overlapping dialogue case*

Vesa Tiainen presented the document. The GPRS_Dialogue_Handler Process is not covered by the SDL modell. The overlapping dialogue case will be presented also in GPRS_Dialogue_Handler Process.

Discussion: Renaming to the internal CAP interface. : is missing, it shall be := shall be. - is missing. The revised modelling will be represented.

Conclusion: Revised in N2-000413

N2-000413, CR 208 rev 1 (cat F) on 23.078, source Nokia: *SDL modelling and overlapping dialogue case*

Revision of document N2-000376

Discussion: Overlapping has two Ps. DialogueID with the ID with capital letters. Begin and End shall just have capital letters in the beginning.

The abbreviation DlgId shall be checked and if it's already exist one that defined in Q.77x.

Conclusion: Revised in N2-000436

N2-000436, CR 208 rev 2 (cat F) on 23.078, source Nokia: *SDL modelling and overlapping dialogue case*

Revision of document N2-000413

Discussion: Agreed without presentation.

Conclusion: Agreed

N2-000390, CR 193 rev 2 (cat F) on 23.078, source Alcatel: *GPRS Change of Position Procedure for Session and Context*

Christian Homann presented the document. The CR was previously presented in Helsinki and has been revised since then.

Discussion: The previous CR that was presented in Helsinki was agreed there and this revision of the CR was withdrawn.

Conclusion: Withdrawn

N2-000385, CR 116 (cat F) on 29.078, source Siemens: *Corrections on Call definitions*

Sumio Miyagawa presented the contribution. The reason for change is:

1. Cause type definition: ASN.1 syntax correction: range constraint 'minCauseLength' must begin with lower case.
2. GPRSCause type definition: range constraints and description do not suit with each other.

Discussion: The only change is that the cause shall convey the actual cause and shall be just one octet. The bound shall be kept. Ian Park proposed that convey one octet. **Conclusion:** Revised in N2-000414

N2-000414, CR 116 rev 1 (cat F) on 29.078, source Siemens: *Corrections on Call definitions*

Revised document of N2-000385

Discussion: Agreed without further presentation.

Conclusion: Agreed

N2-000386, CR 214 (cat F) on 23.078, source Siemens: *GPRS_SSF to receive multiple operations on one TCAP message*

Sumio Miyagawa presented the CR. The introduction of the short TCAP dialogue in GPRS has allowed GPRS_SSF to send TC_End almost any time. However, expressing it in the SDL diagrams made GPRS_SSF send TC_End without considering the multiple operations on one TCAP message. It is foreseen, for example, that the operation ApplyChargingReportGPRS is followed by several operations sent by the gsmSSF. For GPRS_SSF to know the chance to send TC_End "the last component" is checked. The CR also provides the receiving the acknowledgement of ApplyChargingReportGPRS.

Discussion: Ian Park asked if it just exist one component if it shall be marked as the last component. That's correct. The problem was: How shall do if it's several open dialogs and each had distingt tc_continue and they are sent back together.

Rogier Noldus would like to put in text that it's mandatory to send back the AC after an ACR and it is preferable to put in the stage 1.

A guardtimer shall be running in the SSF waiting for the response is not arriving as expected. If the timer expires a TC end shall be sent. Shall the timer be in application level or in TC level?

If one threshold is reached and if the SCP has asked for the other threshold then the other AC shall be sent. If just one AC is sent just one response shall be sent. It will be reopened by a AC or release. It will be closed when the all AC has been received. Multiple timer or reset the existing one was still an open issue after the discussion.

The dialog will be closed after the AC has been received. The guardtimer shall be described in a text. What shall happen when the guardtimer is expiring?

Rogier Noldus will take some of his planned sleeping hours to prepare a CR to correct this in order to get it to the next plenary in September. The document will be N2-000415.

If the application timer expires the default GPRS handling shall be checked, if it says release all the resources shall be released.

Conclusion: Superseded by N2-000415

N2-000409, CR 217 (cat F) on 23.078, source Nokia: *PDP establishment*

This CR is linked CR to N2-000373 and N2-000280. The reason that this CR has been produced is that the N2 have two CRs in the same area and if both these two CRs will be approved in the plenary, this CR has to be approved in order to get it right incorporated in the specification.

Conclusion: Agreed

N2-000411, CR 188 rev 2 (cat F) on 23.078, source Vodafone: *Update of References for the Location Information IE*

Ian Park presented the document. The CR was already agreed in the last meeting. Since then Vodafone realised an error therefore had corrected it accordingly.

Conclusion: Agreed

N2-000415, CR 216 (cat F) on 23.078, source Ericsson: *Introduction of Guard Timer for GPRS TCAP dialogue handling*

Rogier Noldus presented the CR that introduces a guard timer in the GPRS TCAP dialogue handling. The guard timer is a mechanism by means of which the gprsSSF can decide when to close a TCAP dialogue. Such mechanism is needed to ensure that the gsmSCF can respond with an Apply Charging operation when it has received an Apply Charging Report, without having to open a new TCAP dialogue. At the same time, the gprsSSF does not have to keep the TCAP dialogue open longer than needed.

Discussion: Keijo Palviainen would like to mandate the SCP response

Ian Park: Suggest that a warning shall be included. It's just one guardtimer in SSF. The warning text will be included in the end of description text in 6.5.3.A with the following content: Service designers should note that if the gsmSCF does not send an Apply Charging or Release to a response of a Reply Charging Report when gprsSSF is waiting such a response, service behavior will be unpredictable unless the SSF

It was noted that Ian Park has been looking at the cookies that have been behind Keijo Palviainen for a couple of hours now, waiting for the meeting to be closed. The meeting took a short break to get rid of his problem.

Conclusion: Revised in N2-000440

N2-000440, CR 216 rev 1 (cat F) on 23.078, source Ericsson: *Introduction of Guard Timer for GPRS TCAP dialogue handling*

The document is a revised version of document N2-000415.

Discussion: Agreed without presentation.

Conclusion: Agreed

6.3 SMS

N2-000383, CR 212 (cat F) on 23.078, source Siemens: *Correction SMS_SSF*

Sumio Miyagawa presented the CR.

Discussion: Rogier Noldus has another CR in N2-000389 in the same area and the two documents were presented at the same time. The agreed changes it will be incorporated in the CR 23.078-213R1.

Conclusion: Superseded by N2-000416

N2-000389, CR 213 (cat F) on 23.078, source Ericsson: *Correction of MO-SMS SDL's*

Rogier Noldus presented the CR.

Discussion: The changes in the two documents were compared.

The conclusion of the discussion if the changes to SSF_SMS in the two contributions was that Int_continue shall be used instead of int_continue_SMS.

The output signal Application_end is not a major problem.

Setting in TSSF? The setting is correct in N2-000383.

Rogier Noldus will will incorporate the changes that was agreed in the CR from Sumio Miyagawa in the revised CR.

Conclusion: Revised in N2-000416

N2-000416, CR 213 rev 1 (cat F) on 23.078, source Ericsson: *Correction of MO-SMS SDL's*

This revised CR is a combined CR earlier proposed in N2-000383 and N2-000389 by Siemens and Ericsson. Rogier Noldus presented the contribution.

Conclusion: Agreed

N2-000427, CR 219 (cat F) on 23.078, source Ericsson: *Correction to Initial DP SMS Information Flow*

Rogier Noldus presented the document.

Discussion: It was a proposal to change the sentence "A CAMEL Service may be invoked for the following Mobile Originated short message types" so it's clearly states may means that if there is a SMS-CSI. The subject will be revised off line. DMD shall be SMS, the reason that is it DMD is that S is to close to D on the keyboard.

Conclusion: Agreed

6.4 Call Related

N2-000392, CR rev 1 (cat F) on 29.002, source Vodafone: *Correction on Location Information*

Ian Park presented the document. Today there is no way of knowing whether the MSC had provided the Cell Global ID or the Service Area Code. With this CR it will be possible to disting which this.

Discussion: It was a comment about the name but eventually it was endorsed by N2.

Conclusion: Endorsed

N2-000328, CR 137 rev 3 (cat F) on 23.078, source Nokia: *E-parameter handling of distinct CAP dialogues/TDPs*

Keijo Palviainen presented the CR that cleans up the use of words and the description of the AoC.

Discussion: Receive from the network signalling, the MSC have to send the waiting for e-parameter.

Remove the signal applicable e-parameter on page 14 and 16.

Ian Park had a lot of editorial comments e.g. Provokes is miss-spelled at several places. Lines goes through the boxes at a couple of sheets.

Conclusion: Revised in N2-000418

N2-000418, CR 137 rev 4 (cat F) on 23.078, source Nokia: *E-parameter handling of distinct CAP dialogues/TDPs*

Revised document of N2-000418.

Discussion: There could be some overlapping changes between this one an some other CRs.

Conclusion: Agreed

N2-000357, CR 205 rev 0 (cat F) on 23.078, source Vodafone: *Handling of the Call Diversion Treatment Indicator*

Ian Park presented the document with the reason for change is that TSG-N4 have agreed that the Call Diversion Treatment Indicator shall be checked in the VLR. Hence, the Call Diversion Treatment Indicator is included in the Send Info for Incoming Call IF.

Discussion: Among the delegates the description of the Call Diversion Treatment Indicator was not clear. It was therefore decided to change it so it's understandable for everyone.

Conclusion: Revised in N2-000419

N2-000419, CR 205 rev 1 (cat F) on 23.078, source Vodafone: *Handling of the Call Diversion Treatment Indicator*

The document is a revised version of N2-000357.

Discussion: Agreed without further presentation.

Conclusion: Agreed

N2-000358, CR 187 rev 1 (cat F) on 23.078, source Vodafone: *Transfer of Procedure Check_CD_SII2 from TS 23.072*

Ian Park presented the CR that was conditional agreed in the last meeting. The procedure name was proposed to be changed to CAMEL_CHECK_SII2_CDTI to avoid confusion.

Discussion: The corresponding CR for 23.072-004 in N4-000534. 23.018 is calling the procedure and this has earlier been agreed in N4.

Conclusion: Agreed

N2-000367, CR 215 rev (cat F) on 23.078, source Lucent Technologies: *Correction to description of DP Collected_Info*

Michel Grech presented the CR. CSE initiated calls has been removed from the scope of CAMEL Phase 3. It has therefore to be removed from stage 2.

Discussion: This will probably be a part of CAMEL phase 4. If then it has to be included again for that phase of CAMEL.

Conclusion: Agreed

N2-000375, CR 207 rev (cat) on 23.078, source Nokia: *Removal of NPI check in DP Analyzed_Information*

Keijo Palviainen presented the CR. The NPI check in DP3 was removed from stage 1 of CAMEL (22.078). The check shall be removed from stage 2 as well, since it cause more trouble than solves problems.

Discussion: It is not just used from the MS, it's also used for the call forwarding and other number received from other networks.

After a long discussion it was decided that:

Bullet number 2 is changed to the numbering plan indicators of both numbers are ignored.

The ordering of the bullets will be left as it is proposed in this CR.

Conclusion: Revised in N2-000420

N2-000420, CR 207 rev 1 (cat F) on 23.078, source Nokia: *Removal of NPI check in DP Analyzed_Information*

Revised document of N2-000375.

Discussion: The document was agreed without further presentation.

Conclusion: Agreed

N2-000380, CR 209 rev (cat F) on 23.078, source Siemens: *Correction CAMEL_MT_GMSC_INIT*

Sumio Miyagawa proposed that the output 'Result=FTN' in the procedure CAMEL_MT_GMSC_INIT (sheet 7) shall be changed to 'Result=GSM_FTN', in line with CR 23.078-091r1 approved at CN#7.

Conclusion: Agreed

N2-000381, CR 210 rev (cat F) on 23.078, source Siemens: *Correction CAMEL_MT_GMSC_Notify_CF*

Sumio Miyagawa presented the CR with the reason for change is that in the procedure CAMEL_MT_GMSC_Notify_CF, after receiving Int_Connect, CAMEL_Modify_CUG_Info and "Modify call parameters with received info" shall be deleted since they are called later in the procedure CAMEL_MT_GMSC_INIT in the case of "Result=Reconnect".

Discussion: It was realised that DP 12 can be reported Multiple times. It is the same behaviour in all phases. Interested parties will discuss this off line. Does it has to be changed for all phases? Postponed.

Conclusion: Rejected

N2-000425, CR 218 rev (cat D) on 23.078, source T-Mobil: *Clarification of description of number comparison for dialled services*

Steffen Habermann presented the document. The description of the number comparison at the analysed_information DP contains several "GOTO requests" and this document is clarifying how it works.

Discussion: Some companies use TON and other NoA. Both shall be used here.

Ian Park proposed some additional next in the chapter after bullet 6.

Nokia had a CR yesterday that proposed to rearrange the bullets but Keijo Palviainen noted that this has been changed in the proposed revised document.

Conclusion: Revised in N2-000434

N2-000434, CR 218 rev 1 (cat D) on 23.078, source T-Mobil: *Clarification of description of number comparison for dialled services*

Revised document of N2-000425.

Discussion: Agreed without further presentation.

Conclusion: Agreed

6.5 Late arrivals

The Chairman started the second day to inform the delegates that he is going to buy a Sweatshirt with the text "Sleepless in Seattle". Last night he forgot to switch off the telephone during and someone called him from Europe. Hopefully he will not have the problem any longer.

7 CAMEL Phase 4

7.1 Review of CAMEL phase 4 Stage 1 draft

N2-000368, source Lucent Technologies: *Draft CAMEL Stage 1 for Release 200 (22.078). Rapporteur version*

Michel Grech as the rapporteur of stage 1 presented the draft stage 1. He pointed out that it's not an official specification, the agreed one will be presented by MCC after the next SA plenary. It was presented here as a working assumption for the content phase 4. Michel Grech would like to have comments on this draft specification. CRs to the next ad hoc shall be based on the phase 3 version 3.4.1.

Conclusion: Noted

N2-000428, source Marconi: *Alcatel mapping document*

It was submitted for information and was not presented.

Conclusion: Noted

7.2 Miscellaneous CAMEL phase 4 issues

N2-000388, source Rapporteur 23.078 CAMEL Phase 4: *3G TS 23.078 (R00) as the output of N2#12*

Sumio Miyagawa presented the draft phase 4 specification that will be the combined phase 4 CR. In the specification the phase 3 CRs and the proposed phase 4 changes agreed in the last N2 meeting has been incorporated.

Discussion: In the coversheet there are some notes and all of them was agreed except note number 6 that was not agreed.

Conclusion: Noted

7.3 Optimum routing

N2-000359, (cat B) on 23.078, source Vodafone: *CAMEL control of Optimal Routeing*

Ian Park presented the document. The TSG-S1 CAMEL ad hoc agreed a CR to 22.078 introducing CAMEL control of OR. This CR gives the gsmSCF the ability to indicate in a Connect or Continue with Argument that a MO call should be subject to OR.

Discussion: The comments to the new proposal are that: The name and the description shall be indicated that the interrogation is requested rather than required.

A reference to 23.079 shall be included in the description. It's 36 in the reference list.

In the originating side it's the destination address indicates that OR has taken place. The OR parameter is used in the terminating side.

A new text clarifying the link will also be put into the revised document.

Conclusion: Revised in N2-000402

N2-000402, rev 1 (cat B) on 23.078, source Vodafone: *CAMEL control of Optimal Routeing*

Revised document of N2-000359

Discussion: The principle is agreed to incorporate in the draft phase 4 specification.

Conclusion: Noted

N2-000360, (cat B) on 29.078, source Vodafone: *CAMEL control of Optimal Routeing*

The document will be revised so it will be aligned with the changes in stage 2 (N2-000402). The name and description will be changed.

Conclusion: Revised in N2-000403

N2-000403, (cat B) on 29.078, source Vodafone: *CAMEL control of Optimal Routeing*

The document is a revision of N2-000360. Ian Park presented the changes done since the last version. Change of the parameter name shall be from Required to requested.

Conclusion: Revised in N2-000424

N2-000424, (cat B) on 29.078, source Vodafone: *CAMEL control of Optimal Routeing*

Revised Version of document N2-000403.

Discussion: The principle is agreed to incorporate in the draft phase 4 specification.

Conclusion: Noted

N2-000361, source Vodafone: *Proposed LS to N4 on CAMEL control of Optimal Routeing*

Ian Park presented a proposed LS to N4 with the intention to trigger the work on 23.018 and 23.079 for OR in order to have it in R00. In the presentation Ian Park mention that that the proposed LS has to be aligned with what has been agreed in the CRs to 23.078 and 29.078.

Discussion: Michel Grech suggested that the ad hoc should be deleted in the first sentence since it has been agreed in S1 as well.

Conclusion: Revised in N2-000404

N2-000404, source Vodafone: *Proposed LS to N4 on CAMEL control of Optimal Routeing*

Revised document of N2-000361

Discussion: Agreed without further presentation.

Conclusion: Approved

7.4 Call Party Handling

N2-000393, source Vodafone: *Modelling of Call Party Handling*

Ian Park presented the document that includes two different proposals of the modeling of CPH. The difference in principle between the two proposals is that Proposal A puts the CSA function in the gsmSSF whereas proposal B puts the CSA function in the CCF.

Discussion: Parallel user interaction is it a part of CPH? Open issue.

David Smith would like it to be aligned with CS-2.

It was decided to go for proposal A but it might be some modifications.

Vodafone prefers that 8 simultaneous call legs should be supported. What do other companies think is appropriate number? Vodafone would like to have the input during this meeting but since there are not so many manufactures present it can't be decided at this meeting. Ian Park will send a question at the N2 mailing list. Ian Park and Ruth Hewson will collect the requirements from the vendors. He would like to have this solved before the end of the next CAMEL ad doc; in order to have it included in stage 1.

Conclusion: Noted

N2-000363, rev 1 (cat B) on 29.078, source Vodafone: *Introduction of the Alerting DP*

Ian Park presented the CR that introduces the Alerting DP and the Alert Phase of the call, which is a part of CPH.

Discussion: The order of the DPs in the table shall be changed.

Conclusion: Revised in N2-000426

N2-000426, rev 2 (cat B) on 29.078, source Vodafone: *Introduction of the Alerting DP*

Revised document of N2-000363.

Discussion: It was agreed that the content of the document shall be incorporated in the combined phase 4 CR without further presentation.

Conclusion: Noted

7.5 IP Telephony

N2-000365, source Lucent Technologies: *Proposal for structure of new TS 22.078 part II covering IP Telephony/CAMEL interaction*

Michel Grech presented a document, which proposes a structure of a 23.078 part 2. Unfortunately they don't have resources for an editor for that document.

Discussion: It was a discussion about in which document the hooks will be defined. N2 would like to have a similar document as 23.018 but for packet data. Jane Humphrey informed that S2 had decided to work on a specification on IP domain call flow in 23.228. The editor is from Lucent. S1 will work on stage 2 and N1 on stage 3. Jane Humphrey also informed that she has drafted a text in S2 about CAMEL and it's not mandatory for IP.

Conclusion: Noted

N2-000369, source BT: *Specifications and Modeling for CAMEL IP Telephony*

David Smith presented the document that contains a proposed modeling.

Discussion: David Smith is suggesting that to the CSCF will be opened up and has CAMEL control over the call based on SIP.

23.018 will be used as a bases of the work but SS is defined in that specification and it's not clear about the impact on it.

The intention is that E.164 addressing shall be used even though that SIP UML and other way of addressing can be used. It is still an open issue.

SIP-ISUP is under N4 responsibility and 24.008-SIP is under N1. A joint meeting is probably needed.

Michel Grech would like to have the hooks in the call flow specification produced in S2. Ericsson and Alcatel have the same idea. Stephen Hayes informed that the message flow diagram will be produced in S2 but no detail like SDLs etc will be in that specification. The details will then be specified in N1. At the next plenary the work split between the groups will be discussed. In the specification of N1 it will probably not be any hooks defined. It could be specified in N4 or N2 has to it by us.

Conclusion: Noted

N2-000370, source BT: *Functional Model for CAMEL IP Telephony*

David Smith presented the document.

Conclusion: Noted

N2-000366, source Lucent Technologies: *Mapping of CAMEL state model to SIP call control*

Michel Grech presented the document. The reason for this to be presenting now is that this is a starting point to see if the mapping is possible between the cause code used in the DP and the messages in SIP. No details were discussed at this point.

Discussion: Alcatel has done a mapping document for IN. This document will be circulated in N2-000428.

In the contribution it is a proposal to send a LS to S1.

Shall the work be based on CAMEL phase 3 or phase 4? The question is an S1 issue but the chairman wants to know if there is a common N2 view on this. If it will be based on phase 3 now, it will be two different evolutions from phase 3 in the end. In order to be able to maintain the specifications it shall be one common specification. N2 wait for the resolution from S1.

Conclusion: Noted

7.6 MT-SMS

N2-000395, (cat B) on 23.078, source Ericsson: *Introduction of MT-SMS*

Rogier Noldus presented this proposal how to introduce MT SMS in CAMEL phase 4.

Discussion: Location information in MSC.

A CR to MO SMS is prepared but not presented yet.

Comments:

The definition of SMS-CSI and the MT in the abbreviation shall be deleted.

Since it's running in the serving MSC the SS checking is not applicable.

It was agreed that for MO-SMS CAP 3 shall be used. If it's a need to upgrade the application context is an issue that has to be discussed further.

In the HLR on page 6 it shall be one or both of MO-SMS-CSI and MT-SMS-CSI.

Answer to the questions on page 30:

Destination Subscriber number- It is always there but it may be an empty string.

Calling Party Number- This question is homework.

TP Short Message Submission Specific Information- The question is a homework.

Changes in Location Information that was agreed in the last meeting would have impact on this. The intention is not to change the location information. The intention was to copy MO and if it is changed for phase 3 it has to be changed even for phase 4.

Conclusion: Revised

7.7 Other call related issues

8 Maintenance of earlier CAMEL phases

8.1 CAMEL phase 1

8.2 CAMEL phase 2

N2-000423, (cat F) on 03.18, source Vodafone: *Correction of procedure Obtain_Routeing_Address for the reconnect case*

Ian Park presented the document and the background about why he is presenting such a late change to CAMEL phase 2. During the meeting he realised that, if the CAMEL processing leads to a redirection of the call to a different destination, it was not visible for the procedure CAMEL_MT_GMSC_INIT.

Discussion: The category of the document was discussed. It was agreed to have C3, which means that it's not critical but is agreed among the major manufactories. The task box reconnect will be moved after number 3. The version number of the coversheet has to be updated. The page header is not correct. Sheet 2 and 3 will be included even though they are not changed.

Since it's a late CAMEL phase 2 CR Lucent wanted to have more time to check this. They are going to check it until the CN plenary. If they find it's not acceptable they can reject it during the CR, since it was agreed to have it as a C3.

Conclusion: Revised in N2-000430

N2-000430, (cat F) on 03.18, source Vodafone: *Correction of procedure Obtain_Routeing_Address for the reconnect case*

Revised Version of document N2-000423.

Discussion: The document was endorsed by N2 without further presentation and the document will be forwarded to N4.

Conclusion: Endorsed

N2-000422, (cat A) on 03.18, source Vodafone: *Correction of procedure Obtain_Routeing_Address for the reconnect case*

R98 of the CR in N2-000423.

Conclusion: Revised in N2-000431

N2-000431, (cat A) on 03.18, source Vodafone: *Correction of procedure Obtain_Routeing_Address for the reconnect case*

Revised Version of document N2-000423.

Discussion: The document was endorsed by N2 without further presentation and the document will be forwarded to N4.

Conclusion: Endorsed

N2-000421, (cat A) on 23.018, source Vodafone: *Correction of procedure Obtain_Routeing_Address for the reconnect case*

R99 of the CR in N2-000423.

Conclusion: Revised in N2-000432

N2-000432, (cat A) on 23.018, source Vodafone: *Correction of procedure Obtain_Routeing_Address for the reconnect case*

Revised version of document N2-000421.

Discussion: The document was endorsed by N2 without further presentation and the document will be forwarded to N4.

Conclusion: Endorsed

9 Review of dates and hosts for future meetings

9.1 Review of the Meeting schedule for 2000

Meeting	Date	Host	Venue
S1 CAMEL ad hoc	11-13 Sept.	ETSI	Sophia Antipolis, France
N2#14	16 - 20 Oct.	Telekom Austria AG	Vienna, Austria
N2#15	13 – 17 Nov.	Alcatel	Paris, France

9.2 Review of the Meeting schedule for 2001

3GPP Meeting	Date	Place	Host
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TSG#10	6-13 December 2000	Bangkok, Thailand	
N2#16	15-19 January 2001	Melbourne, Australia	Ericsson, Australia
N2#17	26 February -2 March 2001	T.B.D	T.B.D
TSG#11	14-22 March 2001	USA	T1 companies
N2#18	14-18 May 2001	USA	
TSG#12	13-21 June 2001	Stockholm, Sweden	Ericsson
N2#19	09-13 July 2001	Dusseldorf, Germany	Mannesmann
TSG#13	26 Sep – 4 Oct 2001	Beijing, China	Lucent Technologies, CWTS
N2#20	15-19 October 2001	UK	Vodafone, BT
N2#21	26-30 November 2001	T.B.D	T.B.D
TSG#14	12-20 December 2001	T.B.D	T.B.D

N2-000371, source N2 chairman: *N2 calendar for year 2001*

Conclusion: Noted

N2-000437, source N4 Chairman: *Meeting calendar (N2/N4)*

Conclusion: Noted

10 A.O.B.

10.1 Joint meeting with N4

Yun-Chao Hu, Keijo Palviainen and Ian Park held nice speeches for Franco Settimo and Monica Hellman that are leaving ETSI. After the speech they handed over some presents from the delegates.

The meeting schedule were discussed and updated jointly in N2 and N4. All the meetings will be co-located next year.

N4 has no intention to write a specification of the IP based call flow in a similar way as they do with 23.018 for the circuit switched. If N2 would like to have one they have to do it themselves.

11 Closing of the meeting (15:30 Friday)

The chairman thanked the delegates and the MCC support for the active participation in the meeting. Monica Hellman thanked the delegates for the time she has spent with them and the present that she got. Then the Chairman closed the meeting for this time.

Annex A Participants list

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Annex B Output Documents

Agreed Change Requests for CAMEL Phase 3

TDoc #	spec	CR #	Rev	Title	Source
N2-000418	23.078	137	4	E-parameter handling of distinct CAP dialogues/TDPs	Nokia
N2-000358	23.078	187	1	Transfer of Procedure Check_CD_SII2 from TS 23.072	Vodafone
N2-000411	23.078	188	2	Update of References for the Location Information IE	Vodafone
N2-000378	23.078	198	2	Location Number GPRS	Alcatel / Vodafone
N2-000439	23.078	200	7	ACR/AC supervision for GPRS	Alcatel
N2-000419	23.078	205	1	Handling of the Call Diversion Treatment Indicator	Vodafone
N2-000408	23.078	206	1	GPRS location information in GPRSEventSpecificInformation	Nokia
N2-000420	23.078	207	1	Removal of NPI check in DP Analyzed_Information	Nokia
N2-000436	23.078	208	2	SDL modelling and overlapping dialogue case	Nokia
N2-000380	23.078	209		Correction CAMEL_MT_GMSC_INIT	Siemens
N2-000416	23.078	213	1	Correction of MO-SMS SDL's	Ericsson
N2-000367	23.078	215		Correction to description of DP Collected_Info	Lucent Technologies
N2-000440	23.078	216	1	Introduction of Guard Timer for GPRS TCAP dialogue handling	Ericsson
N2-000409	23.078	217		PDP establishment	Nokia
N2-000434	23.078	218	1	Clarification of description of number comparison for dialled services	T-Mobil
N2-000427	23.078	219		Correction to Initial DP SMS Information Flow	Ericsson
N2-000412	29.078	106	3	Location Number GPRS	Alcatel
N2-000407	29.078	114	1	Clarification on GPRS dialogue handling in case of TCAP error/abort	Nokia
N2-000410	29.078	115	1	GPRS location information in GPRSEventSpecificInformation	Nokia
N2-000414	29.078	116	1	Corrections on cause definitions	Siemens

CRs for e-mail agreement

TDoc #	spec	CR #	Rev	Title	Source
N2-000438	23.078	194	3	Corrections on GPRS	Ericsson

N4 Documents Endorsed by N2

TDoc #	spec	CR #	Rev	Title	Source
N2-000430	03.18			Correction of procedure Obtain_Routeing_Address for the reconnect case	Vodafone
N2-000431	03.18			Correction of procedure Obtain_Routeing_Address for the reconnect case	Vodafone
N2-000400	23.018		1	Update of CAMEL references	Vodafone
N2-000432	23.018			Correction of procedure Obtain_Routeing_Address for the reconnect case	Vodafone
N2-000429	23.060	---		Details on CAMEL interworking	Alcatel
N2-000392	29.002		1	Correction on Location Information	Vodafone

Approved Liaison Statement

TDoc #	spec	Title	Source
N2-000433	S1	Reply to LS on Support of VHE User Profiles	BT
N2-000404	N4	Proposed LS to N4 on CAMEL control of Optimal Routeing	Vodafone

Annex C List of Documents

TDoc #	spec	CR #	Rev	Cat	Title	Source	Conclusion
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N2-000302	23.060	---		F	Details on CAMEL interworking	Alcatel	Revised in N2-000401
N2-000318					N2 specification list	MCC	Revised in N2-000399
N2-000328	23.078	137	3	F	E-parameter handling of distinct CAP dialogues/TDPs	Nokia	Revised in N2-000418
N2-000334	23.078	194	1	F	Corrections on GPRS	Ericsson	Revised in N2-000405
N2-000347	23.078	200	3	F	ACR/AC supervision for GPRS	Alcatel	Revised to N2-000391
N2-000350	23.078				Draft CAMEL phase 3 specification	Siemens/alcatel	Revised in N2-000387
N2-000351	23.078				Draft CAMEL Phase 4 specification	Siemens	Revised in N2-000388
N2-000352					Agenda	Chairman	Approved
N2-000353					Document allocation	Chairman	Approved
N2-000354					Helsinki Meeting Report	MCC	Noted
N2-000355	23.018		0	F	Update of CAMEL references	Vodafone	Revised in N2-000400
N2-000356	29.002		0	F	Correction on Location Information	Vodafone	Revised in N2-000392
N2-000357	23.078	205	0	F	Handling of the Call Diversion Treatment Indicator	Vodafone	Revised in N2-000419
N2-000358	23.078	187	1	F	Transfer of Procedure Check_CD_SII2 from TS 23.072	Vodafone	Agreed
N2-000359	23.078		0	B	CAMEL control of Optimal Routeing	Vodafone	Revised in N2-000402
N2-000360	29.078		0	B	CAMEL control of Optimal Routeing	Vodafone	Revised in N2-000403
N2-000361					Proposed LS to N4 on CAMEL control of Optimal Routeing	Vodafone	Revised in N2-000404
N2-000362					Modelling of Call Party Handling	Vodafone	Revised in N2-000393
N2-000363	29.078		1	B	Introduction of the Alerting DP	Vodafone	Revised in N2-000426
N2-000364					LS on Support of VHE User Profiles	S1	Noted
N2-000365	23.078				Proposal for structure of new TS 22.078 part II covering IP Telephony/CAMEL interaction	Lucent Technologies	Noted
N2-000366					Mapping of CAMEL state model to SIP call control	Lucent Technologies	Noted
N2-000367	23.078	215		F	Correction to description of DP Collected_Info	Lucent Technologies	Agreed
N2-000368					Draft CAMEL Stage 1 for Release 200 (22.078). Rapporteur version	Lucent Technologies	Noted
N2-000369					Specifications and Modelling for CAMEL IP Telephony	BT	Noted
N2-000370					Functional Model for CAMEL IP Telephony	BT	Noted
N2-000371	-				N2 calendar for year 2001	N2 chairman	Noted
N2-000372	29.078	114		F	Clarification on GPRS dialogue handling in case of TCAP error/abort	Nokia	Revised in N2-000407
N2-000373	23.078	206		F	GPRS location information in GPRSEventSpecificInformation	Nokia	Revised in N2-000408
N2-000374	29.078	115			GPRS location information in GPRSEventSpecificInformation	Nokia	Revised to N2-000410
N2-000375	23.078	207			Removal of NPI check in DP Analyzed_Information	Nokia	Revised in N2-000420
N2-000376	23.078	208		F	SDL modelling and overlapping dialogue case	Nokia	Revised in N2-000413
N2-000377	29.078	106	2	F	Location Number GPRS	Alcatel	Revised in N2-000412
N2-000378	23.078	198	3	F	Location Number GPRS	Alcatel / Vodafone	Agreed

N2-000379	EN 301 931				Provision of Draft ETSI EN 301 931 V1.1.1 (INAP CS3)	C. Homann; Alcatel	Noted
N2-000380	23.078	209		F	Correction CAMEL_MT_GMSC_INIT	Siemens	Agreed
N2-000381	23.078	210		F	Correction CAMEL_MT_GMSC_Notify_CF	Siemens	Rejected
N2-000382	23.078	211		C	GPRS_SSF to receive ack signal from SCP	Siemens	Withdrawn
N2-000383	23.078	212		F	Correction SMS_SSF	Siemens	Superseded by N2- 000416
N2-000384	23.078				SDL cleanup	Siemens	postponed
N2-000385	29.078	116		F	Corrections on Call definitions	Siemens	Revised in N2-000414
N2-000386	23.078	214		F	GPRS_SSF to receive multiple operations on one TCAP message	Siemens	Superseded by N2- 000415
N2-000387	23.078				3G TS 23.078 as the output of N2#12	Rapporteur 23.078	Noted
N2-000388	23.078				3G TS 23.078 (R00) as the output of N2#12	Rapporteur 23.078 CAMEL Phase 4	Noted
N2-000389	23.078	213		F	Correction of MO-SMS SDL's	Ericsson	Revised in N2-000416
N2-000390	23.078	193	2	F	GPRS Change of Position Procedure for Session and Context	Alcatel	Withdrawn
N2-000391	23.078	200	4	F	ACR/AC supervision for GPRS	Alcatel	Revised in N2-000406
N2-000392	29.002		1	F	Correction on Location Information	Vodafone	Endorsed
N2-000393					Modelling of Call Party Handling	Vodafone	Noted
N2-000394	29.078	117		C	GPRS_SSF to receive ack signal from SCP	Siemens	Withdrawn
N2-000395	23.078			B	Introduction of MT-SMS	Ericsson	Revised
N2-000396					Work Plan 0008	MCC	Noted
N2-000397					Output from the SA drafting meeting last week.	CN chairman	Noted
N2-000398					Reply to LS on Support of VHE User Profiles	BT	Revised in N2-000433
N2-000399					N2 list of document and rapporteurs		Approved
N2-000400	23.018		1	F	Update of CAMEL references	Vodafone	Endorsed
N2-000401	23.060	---		F	Details on CAMEL interworking	Alcatel	Revised in N2-000429
N2-000402	23.078		1	B	CAMEL control of Optimal Routeing	Vodafone	Noted
N2-000403	29.078		0	B	CAMEL control of Optimal Routeing	Vodafone	Revised in N2-000424
N2-000404					Proposed LS to N4 on CAMEL control of Optimal Routeing	Vodafone	Approved
N2-000405	23.078	194	2	F	Corrections on GPRS	Ericsson	Revised in N2-000438
N2-000406	23.078	200	5	F	ACR/AC supervision for GPRS	Alcatel	Revised in N2-000435
N2-000407	29.078	114	1	F	Clarification on GPRS dialogue handling in case of TCAP error/abort	Nokia	Agreed
N2-000408	23.078	206	1	F	GPRS location information in GPRSEventSpecificInformation	Nokia	Agreed
N2-000409	23.078	217			PDP establishment	Nokia	Agreed
N2-000410	29.078	115	1	F	GPRS location information in GPRSEventSpecificInformation	Nokia	Agreed
N2-000411	23.078	188	2	F	Update of References for the Location Information IE	Vodafone	Agreed
N2-000412	29.078	106	3	F	Location Number GPRS	Alcatel	Agreed
N2-000413	23.078	208	1	F	SDL modelling and overlapping dialogue case	Nokia	Revised in N2-000436
N2-000414	29.078	116	1	F	Corrections on cause definitions	Siemens	Agreed
N2-000415	23.078	216		F	Introduction of Guard Timer for GPRS TCAP dialogue handling	Ericsson	Revised in N2-000440
N2-000416	23.078	213	1	F	Correction of MO-SMS SDL's	Ericsson	Agreed
N2-000417					LS on Support of Bookmarks / VHE User Profiles	T3	Noted

N2-000418	23.078	137	4	F	E-parameter handling of distinct CAP dialogues/TDPs	Nokia	Agreed
N2-000419	23.078	205	1	F	Handling of the Call Diversion Treatment Indicator	Vodafone	Agreed
N2-000420	23.078	207	1	F	Removal of NPI check in DP Analyzed_Information	Nokia	Agreed
N2-000421	23.018			A	Correction of procedure Obtain_Routeing_Address for the reconnect case	Vodafone	Revised in N2-000432
N2-000422	03.18			A	Correction of procedure Obtain_Routeing_Address for the reconnect case	Vodafone	Revised in N2-000431
N2-000423	03.18			F	Correction of procedure Obtain_Routeing_Address for the reconnect case	Vodafone	Revised in N2-000430
N2-000424	29.078		0	B	CAMEL control of Optimal Routeing	Vodafone	Noted
N2-000425	23.078	218		D	Clarification of description of number comparison for dialled services	T-Mobil	Revised in N2-000434
N2-000426	29.078		2	B	Introduction of the Alerting DP	Vodafone	Noted
N2-000427	23.078	219		F	Correction to Initial DP SMS Information Flow	Ericsson	Agreed
N2-000428					Alcatel mapping document	Marconi	Noted
N2-000429	23.060	---		F	Details on CAMEL interworking	Alcatel	Endorsed
N2-000430	03.18			F	Correction of procedure Obtain_Routeing_Address for the reconnect case	Vodafone	Endorsed
N2-000431	03.18			A	Correction of procedure Obtain_Routeing_Address for the reconnect case	Vodafone	Endorsed
N2-000432	23.018			A	Correction of procedure Obtain_Routeing_Address for the reconnect case	Vodafone	Endorsed
N2-000433					Reply to LS on Support of VHE User Profiles	BT	Approved
N2-000434	23.078	218	1	D	Clarification of description of number comparison for dialled services	T-Mobil	Agreed
N2-000435	23.078	200	6	F	ACR/AC supervision for GPRS	Alcatel	Revised in N2-000439
N2-000436	23.078	208	2	F	SDL modelling and overlapping dialogue case	Nokia	Agreed
N2-000437					Meeting calendar (N2/N4)	N4 Chairman	Noted
N2-000438	23.078	194	3	F	Corrections on GPRS	Ericsson	e-mail approval
N2-000439	23.078	200	7	F	ACR/AC supervision for GPRS	Alcatel	Agreed
N2-000440	23.078	216	1	F	Introduction of Guard Timer for GPRS TCAP dialogue handling	Ericsson	Agreed