

3GPP TSG_CN#6
ETSI SMG3 Plenary Meeting #6,
Nice, France
13th – 15th December 1999

NP-99470

Agenda item: 5.2.1
Source: TSG_N WG2
Title: Report TSG CN2 meeting#11
For: Information



Report
TSG CN2 meeting#11
Galway, Ireland, 20-21 October 1999

Chairman: Steffen Habermann (T-mobil)
Secretary: Monica Hellman (3GPP support team)
Host:



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

Documents could be found on the 3GPP-server:
ftp://ftp.3gpp.org/TSG_CN/WG2_camel/TSGN2_11/Docs/



Opening of the meeting and approval of the agenda

Frans Haerens welcomed the newcomers that arrived for the joint meeting SPAN 3 and N2A. He thanked the Eircom that hosted the meeting and informed about the meeting arrangements. Steffen Haberman will chair the joint meeting that will take place the 20-21 of october where the CAMEL discussion will take place. This afternoon and tomorrow a parallel meeting handling API will take place.

The meeting has to close down early today and everyone is invited to the social event that will take place this evening.

Next joint meeting will be in Phoenix, Arizona the 17-18 November. The joint meeting will be two days but the N2 meeting will take place during the whole week. Since it is a long trip for the SPAN3 delegates Frans recommended them to stay at the N2 meeting as well.

Steffen informed the meeting that the CN plenary has agreed on splitting the CAMEL phase 3 into to releases. Since it's just one meeting left until the Release 99 should be finalized N2A will focus on R99 issues during these two days.

There was no report for VOIP available at this meeting but Michel informed that it would be a final version at next meeting. Michele will work on it and if anyone has something to add to this please contact him.

Tdoc N2-99D51 (Agenda)

Steffen presented a proposed agenda in document Tdoc N2-99D51.

Proposed Changes:

Release 97

NTT proposed to move the document Tdoc N2-99E57 to Release 97.

Charging issues

Nokia proposed to move the Tdoc N2-99E23 & Tdoc N2-99E25 to the charging issues.

Dialled Services

At agenda item 4.1 T-mobil would like to add the document Tdoc N2-99E91. Siemens will also provide the meeting with a document regarding the same topics.

Decision: The agenda was approved with the proposed changes.

CAMEL Phase 2 Release 97

Tdoc N2-99D59

Sumio presented a CR to document 03.78 on the document of gsmSSF Correction for FCI. In Abiko N2 proposed to freeze the R97 & R98 for CAMEL. CR:s of certain categories will always be possible to agree on. Steffen informed the meeting that the proposal has been presented and revised in CN and it will be available during this meeting (Tdoc .N2-99F03).

Decision: The CR is rejected.

Other business

Rogier had a question about what will happen if a CR is implemented in the wrong way. Should the specification be updated or should a new CR be prepared. One example is 03.78 A105 that was not corrected implemented in the specification. Then the specification was updated to 6.4.1. After publishing of a new version a new CR has to be produced if one CR has been wrong implemented.

The CR:s that shall be sent to Phoenix shall be based on version 6.5.0

CAMEL Phase 3 Release 99

MSP

Tdoc N2-99D53

Ruth from Vodafone presented the document N2-99D53 a CR of SS ad hoc for CAMEL Phase 3.

If MSP should be a part of Release 99 or Release 2000 depends on T-BCSM in VMSC which is not in the Release 99 at the moment. The discussion will be postponed until the status of the T-BCSM is clear. MSP and T-BCM in VMSC will be handled together and to which release they should be a part of has to be after this two days. Sumio said that there are short of time and pointed out that just the issues that will be in R99 shall be discussed. MSP was moved to Agenda item 4 and the issue will be discussed after that R99 have been handled.

Ruth presented the CR:s of MSP for information. They will be represented in the Phoenix meeting when the whole package has been finalized. She asked about comments as before next meeting. Otherwise the contribution will be presented again for approval in the same way at the next meeting.

Decision: The document was noted.

Tdoc N2-99D55.

The contribution from Vodafone was split into several CR:s.

Decision: Withdrawn

Tdoc N2-99E65

Ruth presented the CR for 23.008 on Addition of CCBS to the SS Invocation Notification for information.

Decision: The document was noted.

Tdoc N2-99E67

Ruth presented the CR 23.002-041r1 on Addition of CCBS to the SS Invocation Notification for information.

Decision: The document was noted.

Tdoc N2-99E81

Ruth presented the CR 23.018-005r1 on Inclusion of handling of the Service Interaction Indicators Two parameter, for information.

Decision: The document needs to be revised.

Tdoc N2-99E83

Ruth presented the CR for 23.078 on Inclusion of the handling of the Service Interaction Indicators Two parameter for information.

Decision: The document has to be checked.

Tdoc N2-99E85

Ruth presented the CR for 29.078 on Inclusion of CAMEL CUG handling for information.

Decision: The document was noted.

Tdoc N2-99E69

Ruth presented the document of CLIR provisioning per profile for an MSP Subscriber. It was concerns about regulations but so far there are no other solution Some delegates support it and other is against The issue has been discussed several times in SPAN before is possible to discuss it with span tomorrow. The item has to be studied further. There will be a liaison statement presented at the next N2 plenary meeting.

Decision: The document was noted.

Tdoc N2-99E95

Ruth presented the CR for 23.078 on Inclusion of the handling of the Service Interaction Indicators Two parameter for information.

Decision: The document was noted

Tdoc N2-99E97

Ruth presented the CR for 23.078 on Addition of CCBS to the SS Invocation Notification for information.

Decision: The document was noted

Tdoc N2-99E99

Ruth presented the CR for 23.078 on Inclusion of CUG handling for information.

Decision: The document was noted.

GPRS

Tdoc N2-99D57

Sumio presented Stanislav's contribution to 23.078 and 23.016 on CAMEL Capability Handling for GPRS.

There was some comments on it:

- Corresponding table shall be implemented in chapter 6.6.3
- A note shall be added to the table that clarifies if camel phase three is allowed.

Decision: The contribution was accepted with modifications and Sumio will put it in the draft spec.

Tdoc N2-99E03

Sumio presented another of Stanislav's contribution for decision on GPRS. The title of the document is "Clarification of GPRS TDP Handling". For GPRS there is one relationship to gsmSCF for Attach / Detach FSM and one relationship to gsmSCF per PDP context for PDP Context FSM. The intention with the contribution is to specify them.

The comments was:

- A corresponding SDL:s are missing.
- Remain the EDP-R.
- Rogier and sumio will together change the note in the PDP context. Perhaps it will be a separate paragraph
- Christian and Rogier will draft a text for the contribution

Decision: Siemens will revise the document in document N2-99F01.

Tdoc N2-99E43

Sumio presented a proposal from Siemens about TCAP Handling for GPRS-CAMEL Interworking. The meeting asked about further information. The usage of TCAP resources has to be studied more.

Decision: The document was noted.

Tdoc N2-99E73

Pierre presented the Alcatel contribution about Interworking GPRS with CAMEL phase3. They proposed a new approach for GPRS support by CAMEL. The meeting realized that there is a problem and there are several ways to solve it. This issue has to be studied further.

Decision: The document was noted

Mobility managment

Tdoc N2-99D61

Rogier presented the document Tdoc N2-99D61 of mobility management Introduction of Mobility Management event notifications in 09.02. The document is a revision of document N2-99B00, which was presented in Abiko and has already been presented at the N2B meeting Eton. The document will be revised once more and will then also contain the comments from N2B. Rogier will make the new document available for tomorrow.

Decision: The document was noted and a will be revised by N2B in document Tdoc N2-99F66

Tdoc N2-99D63

The contribution from Ericsson introduces the processes for Mobility Management event notifications in specification 29.002. This document has already been presented in Eton.

Decision: The document was noted.

Tdoc N2-99D65

This contribution specifies the interworking between GSM Location Management processes and the CAMEL Mobility Management process. The document was presented in Eton yesterday. N2B had a few minor remarks to it. The contribution will be revised and implemented in the 29.002. Later on this part will be deleted in this document and put into 23.012.

Decision: New revision of the document.

Tdoc N2-99E79

Mobility Management Triggers for Insert Subscriber Data in specification 23.078 was a contribution from Alcatel. Ericsson presented a contribution to the same item in document TDoc N2-99C05 in Abiko and this document is a proposal to improve it.

Decision: The contribution was accepted.

SMS**Tdoc N2-99D89**

Iris from Sonera presented their proposal to include some Enhancement of Initial DP SMS in spec 23.078. This topic was also discussed in Abiko. S1 has had an Ad hoc meeting since then and they have decided to include this in the CAMEL phase 3 stage 1.

Decision: Agreed with the minor changes. Sonera and Siemens will discuss it together and put it in the draft specification.

Tdoc N2-99D91

The contribution is compiled on the contribution N2-99A78 'CAMEL3 MO SMS modifications to 29.078' which was agreed in Abiko to be included in the draft spec. However, such a draft version was not yet available.

Decision: The contribution was agreed and it will be incorporated in specification 29.078.

Tdoc N2-99E17

Keijo presented the CR to 23.078 on Further CAMEL3 MO SMS modifications to 23.078. No serious technical changes and similar to the circuit switched handling.

The suggested changes were:

- Some operation names have been changed. The new names are "xxxx SMS".
- SA1 CAMEL adHoc approved that MO SMS failure and submission shall be EDP-Rs as well. Tdoc S1-99689 by Ericsson.
- Appending mechanism of FCI is introduced in this CR. See sections 7.6.2.4. and Figure 68e.
- FCI handling is aligned with the call cases, i.e. procedure name "Complete_SMS_FCI_Record".
- Map operation UpdateLocation and UpdateGPRSLocation contain CAMEL information; However, they were not described in the 3G TS 23.078.
- It was seen useful to combine MSC and SGSN sections for MO SMS. Therefore sections 7.6.3 and 7.6.4. are removed and sections 7.6.1 and 7.6.2. cover gprsSSF as well.

There were some comments about the contribution:

- Restore data will be checked by Rogier
- The Procedure CAMEL_O_SMS_INIT will be discussed off line.
- Does the charging mechanism have impact on the SMS.?
- Generic handling. Shall it be applicable for SMS as well?

Decision: The document will be revised in document Tdoc N2-99E93

Tdoc N2-99E93

Keijo presented the revised contribution on further CAMEL 3 MO SMS. The document was agreed accept for the "Append Free format data" in the table of information element that shall be revised by the editors.

Decision: The document was partly agreed.

Tdoc N2-99E19

The contribution is a modification to 29.078 on CAMEL3 MO SMS from Nokia.

The present contribution addresses the following issues:

- Some operation names have been changed. The new names are “xxxx SMS”.
- SA1 CAMEL adHoc approved that MO SMS failure and submission shall be EDP-Rs as well. Tdoc S1-99689 by Ericsson.
- Appending mechanism of FCI is introduced in this CR.
- It is clarified that ReleaseSMS and ConnectSMS are not allowed operations in O_SMS_Submitted nor O_SMS_Failure EDPs. These DPs are EDPs just to allow better charging interworking with the FCI-SMS operation. See sections 9.12.3.1 and 9.kk.3.1.

Comments on the contribution were:

- Check the stage 2 if it's mandatory or optional.
- Correction of Spelling like to Overwight to override.

Decision: The contribution was accepted with editorial modifications.

Tdoc N2-99E39

Sumio presented the contribution of SMS, New Operations for SMS in 29.078. The contribution was accepted. The changes has been for circuit switched but that was suggested that it also will applicable to GPRS

Decision: The contribution was accepted.

SoLSA**Tdoc N2-99E13**

Keijo presented the CR to 23.018 on CAMEL3 SoLSA interworking with MT calls & ATI. SoLSA interworking is added for AnyTimeInterrogation and for MT calls. In MT calls selected LSAid is sent to GMSC over MAP. Isabelle had some concerns about it's a BSS issue as well and they would like to contact BSS people before. Keijo will prepare a contribution that will be sent too the SA1 so that the stage 1 specification will be updated.

Decision: The contribution was accepted.

Tdoc N2-99E15

Keijo presented the corresponding CR to 23.078.

Decision: The contribution was accepted with minor modifications.

Tdoc N2-99E21

Nokia presented a contribution of CAMEL3 MO SMS, GPRS and SoLSA modifications to 29.002. CAMEL inter working with SMS is added and the required changes for CAMEL GPRS and SoLSA changes are incorporated. The first document contains changes to CAMEL phase 3 and GPRS into the MAP specification.

The document was presented at the Eton meeting. Rogier participated at the meeting and summarized the outcome of the discussion. The contribution was accepted with minor changes. Probably a Revised Version will be presented at the next meeting.

Decision: The document was noted.

Charging

Tdoc N2-99E27

The document is a reply from SA5 to a LS about further information about the free format charging data A LS was sent from N2 to WG5 and this document is a reply to this LS. Keijo presented this documents since he was the one that wrote the LS in the beginning.

The content of the FCI data was discussed and it has been agreed that not all the fields will be used. Since SA5 didn't give any guidelines N2 has to make up an assumption. Total amount of data is an open issue and the maximum amount has to be defined now. The meeting decided a starting point of 160 octets. If any other has another opinion the they shall come back with it at the Phoenix. SA5 has to be informed at a later state

The document was also sent to S1 but was not on the agenda at the last S1 meeting!

Decision: The document was noted.

Tdoc N2-99E49

Rogier presented the CR to the specification of 23.078.

The present contribution addresses the following issues:

- increase of free-format data in the FCI message, from 40 to 80 octets
- introduction of the append mechanism for the FCI message

Decision: The content was agreed in principle but since there are some modifications that has to be done, therefore the editors has to discuss it further together with the editor of the proposal.

Tdoc N2-99E51

Rogier presented the corresponding Cr to Tdoc N2-99E51. The contribution describes only the changes to FCI for circuit switched calls.

Decision: Accepted with minor changes. Will be incorporated in the draft specification 29.078.

Tdoc N2-99E23

Keijo presented the document on 23.078 CAMEL3 Warning Tone improvement. Enhancement on the existing CAMEL phase 2. This item was presented for phase 2 but it was too late to incorporate. Now the proposal is represented but for CAMEL phase 3.

Decision: The contribution was accepted.

Tdoc N2-99E25

The contribution is a CR to 29.078 CAMEL3 on Warning Tone improvement from Nokia.

Decision The contribution was accepted and will be put into the draft specification.

Location Services

Tdoc N2-99E41

Rogier presented the contribution from Ericsson on Stage 3 in CAMEL location services. The document is a CR to 29.002 and it specifies the GMLC as recipient for the Any Time Interrogation message. The document was presented in the meeting in Eton, yesterday. The specification belongs to N2B.

Decision: The document was endorsed. Further handling will take place in N2B

Other Stage 2 issues

Tdoc N2-99D81

Sumio presented the document from Siemens. To allow more flexibility, in OR scenarios operating pre-paid solution, Siemens proposed SCI modifications.: Alcatel had the commented that this contribution is not necessary.

Decision: Postponed until tomorrow.

Tdoc N2-99E47

Alcatel presented a contribution about Called Party Number Modification Check in CAMEL. The concept is supported but there are still some parts that is not clear so the discussion will be postponed.

Handling of the triggering in GMSC is not finalized. It was discussed in Abiko but it has to be deled again. The discussion about the numbering check will continue on E-mail. In GPRS and SMS we have the same situation so therefore the discussion will continue later.

Decision: The document will be postponed until someone starts an e-mail debate on it.

Tdoc N2-99E57

Kazuhiko presented a Discussion document on outstanding request counter from NTT The contribution intends to clarify the unit of outstanding request counter. The contribution also handled the impact to the current draft specification.

Decision: The document was noted.

Tdoc N2-99E89

Siemens presented a proposal for Resumption Counter Handling. The document N2-99E89 solves the problem raised in the document N2-99E57. The meeting first agreed to put it into the stage 2 specification but since there is need of changes in the SDL and no one volunteered, the document was just noted.

Decision: The document was noted.

TS 23.008**Tdoc N2-99D95**

Siemens presented a contribution on CAMEL Capability Handling for CAMEL ph3. There were some comments on it. Sumio will rewrite the document including the comments.

Decision: A Revised Version will be presented at the next meeting.

Tdoc N2-99E35

NEC presented the CR 23.008-007 on modification to description of CAMEL subscriber information. The meeting noticed that's there are already other changes in the some way.

Decision: The content included in the contribution Tdoc N2-99E35 will be implemented in the draft specification.

Tdoc N2-99E75

Alcatel presented a combined CR to 03. 08 that includes:

- CAMEL phase3 requirements for O-CSI and T-CSI
- introduction of the VT-CSI in the VLR
- improvements on the M-CSI (N2-99C06)

There was a question of the cause value criteria for no answer DP.

Decision: A Revised Version will be presented at the next meeting.

TS 23.016**Tdoc N2-99D75**

Superseded by Tdoc N2-99D87

Tdoc N2-99D87

Siemens presented the contribution on a CR to 23.16.

Following items are added:

- Short Message Service CSI (SMS-CSI) for CAMEL control of MO SMS, initiated in the VMSC or in the SGSN;
- Mobility Management Triggers
- GPRS CSI TIF csi shall be added.

The comment was that the corrections of TIF csi and the SS-CSI also has to be incorporated in the R97 and R98, for the group definitions. No updated version will be presented, the content will be incorporated in the draft specification.

Decision: The document was agreed with some modifications.

Tdoc N2-99E29

Sumio presented the contribution of Clarification of GPRS CSI in 23.016. One remark was that GPRS is missing in document 23.008.

Decision: The document was noted.

Draft Specifications

Tdoc N2-99D71

The draft specification of CAMEL Phase 3 - Stage 2 in document 23.078 was presented. The delegates was asked to checked if all their CR:s are correct implemented. If it's wrong implemented please contact the editors before next meeting.

Decision: The document was noted.

Tdoc N2-99E87

Jörgen presented the draft CAMEL Application Part (CAP) specification 29.078.

Decision: The document was noted.

Tdoc N2-99E31

NEC presented a contribution of Clarification of EventTypeBCSM and RequestReportBCSMEvent in CAMEL Phase3.

Decision: The content will be incorporated in the draft specification 29.078.

Tdoc N2-99E37

Ericsson presented a CR on 29.002 on Indication of supported CAMEL Phases. The purpose of this contribution is that all the nodes shall clearly indicate which CAMEL phases are supported.

Decision: The document was endorsed. Further handling will be in N2B.

CAMEL phase 3, Status to be determined

Dialled Services

Tdoc N2-99D77

Sumio presented the document for decision about the CSI Modification for NCSD. They propose to enhance the O-CSI structure.

Decision: The document was noted.

Tdoc N2-99D93

Sumio presented the next contribution of Dialled services for discussion and decision. The document showed the amount of O-CSI data that has to be transferred after that the introduction of DP Analyled Info.

Decision: The document was noted.

Tdoc N2-99E01

The contribution of Clarification of Unsuccessful TDPs was a contribution from Siemens presened by Sumio. In CAMEL ph3 there are 3 TDPs defined for O-BCSM and 3 TDPc for T-BCSM. In Tdoc S1-99770 clarifications regarding handling of the new TDPs were agreed. The contribution suggest that notes about this shall be added in the table of Description of O-BCSM DPs in the MSC & Description of T-BCSM DPs in the GMSC / VMSC in document.

Decision: The document was noted

Tdoc N2-99E55

Kazuhiko presented the document from NTT regarding Clarification of DP processing rules. The aim of the contribution is to clarify the DP processing rules and it proposes to modify the description in draft CAMEL Stage2 specification 23.078 X.7.0. There was no time to discuss the document.

Decision: The discussion has to continue on e-mail.

Tdoc N2-99E91

Steffen presented the contribution from T-mobil.

Decision: The discussion has to continue on e-mail.

Summary

The goal is that the Dialed services will be available at release 99. Two different solution one from NTT and one from T-mobil was presented at the meeting. The delegates are asked to study these two contributions before next meeting.

Any Time Interrogation/ Modification; Notification to CSE of change of subscriber data

There was no time to discuss "any time interrogation" and the following documents:

Tdoc N2-99D79

Tdoc N2-99D83

Tdoc N2-99D85

Tdoc N2-99D99

Tdoc N2-99E07

Tdoc N2-99E09

Tdoc N2-99E11

Decision: The document will be discussion will be on E-mail.

T-BCSM in VMSC

Tdoc N2-99E53

Ruth presented the revised Draft SDL diagrams for the V-T-BCSM in 23.018 from Vodafone. The contribution is based on a document presented previously in Abiko.

Decision: The document was noted.

Tdoc N2-99E77

Ruth presented Draft SDL diagrams for the V-T-BCSM in 23.078 a companion contribution to N2-99E53, source Vodafone. It was concerns about if this contribution has been checked against 23.078. Christian and Ian will check this together. The first diagram is not needed.

Decision: The document was noted.

Tdoc N2-99E63

Ruth presented the CR to 23.016 on Introduction of VT-CSI for the T-BCSM in the VMSC.

Decision: The document was noted.

Tdoc N2-99E45

Christian presented the contribution of Completion of 23.078 for T_BCSM in the VMSC. There were some comments about these contributions. The table will be revised with a new column Mt in Visited MSC.

Other proposed changes:

- Description on an additional flag.
- Description of every case
- Change the description in the MSC address. (the one that send the initial DP)

Decision: The document is noted and a revised will be presented at the next meeting.

Tdoc N2-99E05

Christian presented the contribution of T_BCSM in the VMSC & Introdution of new TDPs and Criteria for CAMEL#3 for 29.002. There were no comments in this meeting.

Decision: The document was noted.

CAMEL phase 4, Release 2000

There was no time to time left for the Release 200 discussion.

Draft specification

Tdoc N2-99D73

Tdoc without allocation

Tdoc N2-99E71

Closing the meeting

Steffen thanked all the delegates, the secretary and especially Eircom for hosting the meeting. Then he closed the meeting.

Annex A

3GPP TSG CN WG2
Galway Ireland
20-21 October, 1999

List of participants

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Annex B

**3GPP TSG CN WG2
Galway Ireland
20-21 October, 1999**

Tdoc	Title	Source	Status
N2-99D51	Agenda	Chairman	Agreed
N2-99D53	CRs to SS Stage 2's for CAMEL Phase 3	Vodafone	Noted
N2-99D55	CR to GSM 03.78 on Inclusion of MSP Phase 2 requirements on CAMEL Phase 3	Vodafone	Withdrawn
N2-99D57	CAMEL Capability Handling for GPRS	Siemens	Partly agreed
N2-99D59	CR 03.78-A148 on gsmSSF Correction for FCI	Siemens	Rejected
N2-99D61	'MAP Messages for Mobility Management event notifications' (CR on 29.002)	Ericsson	Revised in 99F66
N2-99D63	'MAP Processes for Mobility Management event notifications' (CR on 29.002)	Ericsson	Noted
N2-99D65	Mobility Management event notifications - interaction with MAP' Mobility Services	Ericsson	Revised in Eton
N2-99D67	Introduction of SMS-CSI in MAP (CR on 29.002)	Ericsson	Withdrawn
N2-99D69	Introduction of GPRS-CSI in MAP (CR on 29.002)	Ericsson	Withdrawn
N2-99D71	CAMEL phase 3, Stage 2, Release 1999; 3G TS 23.078 v. X.7.0 (1999-09-27)	Siemens/Alcatel	Noted
N2-99D73	CAMEL phase 3, Stage 2, Release 2000; GSM 03.78 v. X.6.1 (1999-10-04)	Siemens/Alcatel	Postponed
N2-99D75	CR to 03.16 for CAMEL Phase 3	Siemens	Rev. to D87
N2-99D77	O-CSI for CAMEL Phase 3	Siemens	Noted
N2-99D79	CSI Modification for NCSD	Siemens	
N2-99D81	SCI Modification	Siemens	Postponed
N2-99D83	Notification on Change of Subscriber Data	Siemens	
N2-99D85	Any Time Interrogation	Siemens	
N2-99D87	Revised CR to 23.016 for CAMEL ph 3	Siemens	Partly agreed
N2-99D89	The Enhancement of Initial DP SMS in CAMEL stage2	Sonera Corp	Partly agreed
N2-99D91	The Enhancement of Initial DP SMS in CAMEL stage3	Sonera Corp	Agreed
N2-99D93	O-CSI Data	Siemens	Noted
N2-99D95	CAMEL Capability Handling for CAMEL ph3	Siemens	Will be revised
N2-99D97	Subscribed dialled services	Siemens	Withdrawn
N2-99D99	Changes to 23.008 for NCSD	Siemens	
N2-99E01	Clarification of Unsuccessful TDPs	Siemens	Noted
N2-99E03	Clarification of GPRS TDP Handling	Siemens	Rev. in F01
N2-99E05	CR 29.002-xxx T_BCSM in the VMSC & introduction of new TDPs and Criteria for CAMEL#3.		Noted
N2-99E07	Working assumptions on any time interrogation/modification	NTT Comware	
N2-99E09	Clarification on any time modification procedure	NTT Comware	
N2-99E11	CR on 29.002(related to any time interrogation /modification	NTT Comware	
N2-99E13	23.018 CAMEL3 SoLSA interworking with MT calls & ATI	Nokia	Accepted
N2-99E15	23.078 CAMEL3 SoLSA interworking with MT calls & ATI	Nokia	Partly agreed
N2-99E17	Further CAMEL3 MO SMS modifications to 23.078	Nokia	Rev. in E93
N2-99E19	Further CAMEL3 MO SMS modifications to 29.078	Nokia	Partly agreed
N2-99E21	CAMEL3 MO SMS, GPRS and SoLSA modifications to 29.002	Nokia	Noted
N2-99E23	23.078 CAMEL3 Warning Tone improvement	Nokia	Accepted
N2-99E25	29.078 CAMEL3 Warning Tone improvement	Nokia	Accepted
N2-99E27	Reply to Liaison Statement: CSE controlled free format charging data for CAMEL3. Tdoc	N2-99849	Noted
N2-99E29	Clarification of GPRS CSI in 23.016	Siemens	Noted
N2-99E31	Clarification on EventTypeBCSM and RequestReportBCSMEvent in CAMEL Phase3	NEC Corporation	Agreed
N2-99E33	CR on 29.002 Addition to description of O-CSI for CAMEL Phase3	NEC Corporation	
N2-99E35	CR on 23.008 modification to description of CAMEL subscriber information	NEC Corporation	Superseded by E75
N2-99E37	Introduction of GPRS-CSI (3G TS 23.008)	Ericsson	Endorsed in N2A

N2-99E39	New Operations for SMS in 29.078	Siemens	Agreed
N2-99E41	Location services	Ericsson	Endorsed
N2-99E43	TCAP Handling for GPRS-CAMEL Interworking	Siemens	Noted
N2-99E45	Completion of 23.078 for T_BCSM in the VMSC	Alcatel	Noted
N2-99E47	Called Party Number Modification Check in CAMEL	Alcatel	Postponed
N2-99E49	Charging enhancement for CAMEL phase 3 (23.078)	Ericsson	Partly agreed
N2-99E51	Charging enhancement for CAMEL phase 3 (29.078)	Ericsson	Partly agreed
N2-99E53	23.018 SDL diagrams for the V-T-BCSM	Vodafone	Noted
N2-99E55	Clarification of DP processing rules	NTT	E-mail
N2-99E57	Discussion on outstanding request counter	NTT	Noted
N2-99E59	Clarification of SCCP usage for CAP	NTT	Withdrawn
N2-99E61	CR 23.008 on Introduction of VT-CSI for the T-BCSM in the VMSC	Vodafone	Withdrawn
N2-99E63	CR 23.016 on Introduction of VT-CSI for the T-BCSM in the VMSC	Vodafone	Noted
N2-99E65	CR 23.008 on Addition of CCBS to the SS Invocation Notification	Vodafone	Noted
N2-99E67	CR 29.002-041r1 on Addition of CCBS to the SS Invocation Notification	Vodafone	Noted
N2-99E69	CLIR provisioning per profile for an MSP Subscriber	Vodafone	Noted
N2-99E71	CR to 03.78 on Correction of CF Notification	Siemens	Withdrawn
N2-99E73	Interworking GPRS with CAMEL phase3	Alcatel	Noted
N2-99E75	Combined CR for 03.08	Alcatel	Will be revised
N2-99E77	Draft SDL diagrams for the V-T-BCSM in 23.078	Vodafone	Noted
N2-99E79	Mobility Mangement Triggers for Insert Subscriber Data	Alcatel	Accepted
N2-99E81	CR 23.018-A005r1 on Inclusion of the handling of the SII Two parameter	Vodafone	Will be revised
N2-99E83	CR 29.078 on Inclusion of the handling of the SII Two parameter	Vodafone	Will be checked
N2-99E85	CR 29.078 on Inclusion of CAMEL CUG handling	Vodafone	Noted
N2-99E87	Draft CAMEL phase 3, 29.078	Ericsson	Noted
N2-99E89	Proposal for Resumption Counter Handling	Siemens	Noted
N2-99E91	Introduction of Dialed services in CAMEL Phase 3	T-mobil	E-mail
N2-99E93	Further CAMEL3 MO SMS modifications to 23.078 (Tdoc N2-99E17)	Nokia	Partly agreed
N2-99E95	CR 23.078 on Inclusion of handling the SII Two parameter	Vodafone	Noted
N2-99E97	CR 23.078 on addition of CCBS to the SS Invocation Notification	Vodafone	Noted
N2-99E99	CR 23.078 on inclusion of CUG handling	Vodafone	Noted
N2-99F01	Clarification of GPRS TDP Handling (Revised version of Tdoc N2-99E03)	Siemens	
N2-99F03	Liaison statement to freeze the CAMEL Release 97 & Release 98	CN	

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Red means that the document was not available.