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Meeting Report, version 3.0.0
TSG CN WG2#23
Helsinki, Finland
8 April – 12 April, 2002

Chairman: Keijo Palviainen (Nokia)
MCC support: Kimmo Kymäläinen (ETSI)
Hosts: Nokia

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_23_Helsinki/Docs

1 Opening of the meeting and approval of the agenda

N2-020291 : CN2 chairman, Title: Proposed meeting agenda

Discussion :

Conclusion : Approved

2 Allocation of documents to agenda items

N2-020292 : CN2 chairman, Title: Allocation of documents to agenda items

Discussion :

Conclusion : Noted

3 Reports

N2-020293: MCC, Title: Draft Meeting Report from CN2#22, Sophia Antipolis

Discussion :

Conclusion: Noted

N2-020303: CN2 Vice Chairman, Title: Report of TSG-CN2 CAMEL4 Editor's Meeting

Discussion :

Conclusion: Noted

N2-020326: MCC, Title: Draft Meeting Report from CN#15

Discussion :

Conclusion: Noted

4 Input Liaison Statements

N2-020294 : RAN3, Type: LS IN , Title: Reply to LS "Restoration of R'96 Any Time Interrogation functionality"

Discussion : RAN3 proposes to add "Last Known Location" including the "age of location" into Rel-4.

According to the tdoc, Vodafone requires to R99.

According to the tdoc, Nokia and Ericsson proposes this to Rel-4 RANAP.

Conclusion: Noted

N2-020295 : SA2, Type: LS IN , Title: LS on "Prefix allocation for IPv6 stateless address autoconfiguration"

Discussion :

IPv6 stateless address auto-configuration is identified by a prefix in the IP address. In such a case MS can change it's interface identifier without networking knowing it.

For handover cases the different address may be reported.

Companies to study the CAMEL issue at home.

Conclusion: Noted

N2-020296 : SA1, Type: LS IN , Title: LS on "Annex of Information Tables (A.1, A.2, A.3 and A.4) in 22.078"

Discussion : CN2 will draft the LS to SA1 that please, these tables should be removed from stage1, tables are covered already in stage 2.

Vodafone: We should removed them from Rel-5 and also from R99 because that's also incorrect; even it's not a critical correction.

Lucent, it would be more appropriate to just update R99 than removed it.

T-Mobil: We should draft only Rel-5 CR and let to SA1 decide if they want to remove it from R99.

Siemens: Removal of the tables are not enough. Changes are needed also in text.

CN2 had CRs to update the tables, not to remove them.

Rel-5 needs to remove the tables. R99 we could propose (agreed by consensus).

Chairman: Alcatel will draft LS to SA1 and CR . Correction is made Rel-5 (removal of the tables). In LS CN2 will inform SA1 that SA1 should update the tables or remove them.

LS to SA1 N2-020403

Conclusion: Noted

N2-020403 : Alcatel, Type: LS Out , Title: LS on "Reply to Liaison Statement “Annex of Information Tables (A.1, A.2, A.3 and A.4) in 22.078” "

Discussion : Actions list shall be included.

Wording improvements

Conclusion: Revised to N2-020447

N2-020447 : Alcatel, Type: LS Out , Title: LS on "Reply to Liaison Statement “Annex of Information Tables (A.1, A.2, A.3 and A.4) in 22.078” "

Discussion : N4-020448 is attached to document

Conclusion: Approved

N2-020404 : TS 22.078, Rel-5, Alcatel, Type: CR, Title: Correction of Information Tables (A.1, A.2, A.3 and A.4)

Discussion :

Conclusion: Revised to N2-020448

N2-020448 : TS 22.078, Rel-5, Alcatel, Type: CR, Title: Correction of Information Tables (A.1, A.2, A.3 and A.4)

Discussion :

Conclusion: Endorsed without presentation

N2-020415 : SA5, Type: LS IN , Title: LS on " IP version inter-working on the transport plane"

Discussion : Some clarifications have to made in stage2?

GTP has possibility of 2 addresses in Rel-5.

Rel-5 23.078 may need a clarification.

Conclusion: Noted

5 Work item management & miscellaneous

Status of CN2 specifications and drafts

Type	Number	Title	Rel	current 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	6.10.0	N2	LANTELME, Isabelle
TS	03.78	CAMEL Phase 2; Stage 2	R1998	7.7.0	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	3.12.0	N2	HOMANN, Christian
TS	23.078	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3 - Stage 2	Rel-4	4.4.0	N2	HOMANN, Christian
TS	29.078	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) specification	R1999	3.11.0	N2	NOLDUS, Rogier
TS	29.078	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) specification	Rel-4	4.4.0	N2	NOLDUS, Rogier
Draft	23.078	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 4 - Stage 2	Rel-5	d5.13.D	N2	SUMIO, Myagava
Draft	29.078	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase; CAMEL Application Part (CAP) specification	Rel-5	D5.7.2	N2	NOLDUS, Rogier
Draft	23.278	Customised Applications for Mobile network Enhanced Logic; (CAMEL) Phase 4 - Stage 2 IM CN Interworking	Rel-5	1.1.0	N2	Angelica, Remoquillo

5.1 IPR call reminder

Reminder to Individuals Members and the persons making the technical proposals about their obligations under their respective Organizational Partners IPR Policy.

An IPR declaration was announced by the chairman. IPRs do not need to be declared at the WG meeting but should go to the respective organization.

5.2 Work Item (WI) status review

N2-020319 : Rel-5 , Lucent , Type: WID, Title: Work Item Description for the Support of CAMEL by the IMS

Discussion : Siemens: What will happened if WI is not approved?

Chairman: The work is already going on. The WI is just something we have to have.

Lucent: Changes in Stage 3 will be in a new specification 29.278.

Ericsson: We are happy to define impacts against 29.078 in this WI, but we should change wording less mandatory. 29.078 should be in WI "just in case" if changes are needed. The main spec will be 29.278.

Vodafone: 23.008, 23.016 and 23.218 should add on the list: Affected existing specifications.

Siemens and MMO2 are added as supporting company.

Conclusion : Revised to N2-020405

N2-020405 : Rel-5 , Lucent , Type: WID, Title: Work Item Description for the Support of CAMEL by the IMS

Discussion : 23.008 and 23.016 or their HSS equivalent may be impacted

Conclusion : Revised to N2-020425

N2-020425 : Rel-5 , Lucent , Type: WID, Title: Work Item Description for the Support of CAMEL by the IMS

Discussion : WI will send to CN4. If CN4 has comments, revised WI will be in CN2#24.

Conclusion : Endorsed by CN2

N2-020337 : H3G, Type: WID, Title: Proposed WI: MBMS

Discussion : No impact on CAMEL .

End-user address and PDP-type will different. SCP will have to be prepared for it.

Conclusion: Noted

6 Maintenance of earlier CAMEL phases

6.1 CAMEL phase 1

6.2 CAMEL phase 2

N2-020377: TS 03.78, R97, Siemens, Type: CR, CR#A170, Title: Clarification in the case multiple RRBs are sent for a DP

Discussion : Vodafone supports the concept to clarify this in R97. It should not be a note. Rewording is needed

Nokia don't want to specify this change to stage 3. The right place would be stage 2.

Ericsson doesn't believe this is a necessary correction. They prefer normative wording. Ericsson supports warning on timer.

Telecom Italia: Would like to support CR.

Nokia proposes health warning.

Siemens, T-Mobil & Vodafone believes it is not enough.

Vodafone: If we accept the correction as add the normative text, we should also add the health warning.

Conclusion: Revised to N2-020431

N2-020431: TS 03.78, R97, Siemens, Type: CR, CR#A170, Title: Clarification in the case multiple RRBs are sent for a DP

Discussion : Disconnect leg is per leg

Conclusion: Revised to N2-020441

N2-020441: TS 03.78, R97, Siemens, Type: CR, CR#A170, Title: Clarification in the case multiple RRBs are sent for a DP

Discussion :

Conclusion: Approved

N2-020378: TS 03.78, R98, Siemens, Type: CR, CR#A171, Title: Clarification in the case multiple RRBs are sent for a DP

Discussion :

Conclusion: Revised to N2-020451

N2-020451: TS 03.78, R98, Siemens, Type: CR, CR#A171r1, Title: Clarification in the case multiple RRBs are sent for a DP

Discussion :

Conclusion: Approved without presentation

N2-020379: TS 23.078, R99, Siemens, Type: CR, CR#398, Title: Clarification in the case multiple RRBs are sent for a DP

Discussion :

Conclusion: Revised to N2-020452

N2-020452: TS 23.078, R99, Siemens, Type: CR, CR#398r1, Title: Clarification in the case multiple RRBs are sent for a DP

Discussion :

Conclusion: Approved without presentation

N2-020380: TS 23.078, Rel-4, Siemens, Type: CR, CR#399, Title: Clarification in the case multiple RRBs are sent for a DP

Discussion :

Conclusion: Revised to N2-020453

N2-020380: TS 23.078, Rel-4, Siemens, Type: CR, CR#399r1, Title: Clarification in the case multiple RRBs are sent for a DP

Discussion :

Conclusion: Approved without presentation

N2-020381: TS 09.78, R97, Siemens, Type: CR, CR#A077, Title: Clarification in the case multiple RRBs are sent for a DP

Discussion :

Conclusion: Withdrawn

N2-020382: TS 09.78, R98, Siemens, Type: CR, CR#A078, Title: Clarification in the case multiple RRBs are sent for a DP

Discussion :

Conclusion: Withdrawn

N2-020383: TS 29.078, R99, Siemens, Type: CR, CR#250, Title: Clarification in the case multiple RRBs are sent for a DP

Discussion :

Conclusion: Withdrawn

N2-020384: TS 29.078, Rel-4, Siemens, Type: CR, CR#251, Title: Clarification in the case multiple RRBs are sent for a DP

Discussion :

Conclusion: Withdrawn

7 CAMEL3, Resolution of outstanding issues for Release 99

7.1 CAMEL3, Miscellaneous

7.2 CAMEL3/ATM&ATSI

N2-020375: TS 23.078, R99, Nokia, Type: CR, CR#397, Title: Clarifications on CAMEL3 ATM/ATM-ack

Discussion : T-Mobil proposes to move the ATM-ack comment to lower layer tables.

SDLs do not show if one fails, there should be a loop

CSI: only modified CSI is sent.. Not in cover page.

Conclusion: **Revised to N2-020442**

N2-020442: TS 23.078, R99, Nokia, Type: CR, CR#397, Title: Clarifications on CAMEL3 ATM/ATM-ack

Discussion :

Conclusion: **Postponed to CN2#24**

7.3 CAMEL3/GPRS

N2-020357: TS 23.060, R99, Alcatel, Type: CR, CR#395, Title: Correction concerning the APN selection in SGSN

Discussion : Subcategory is F: essential correction

Ericsson: The changes covered at 23.078 (6.6.2.5.2). Do we need duplicate it in 23.060?

Vodafone: If this already covered at 23.078. CR can't be essential correction.

Chairman: To avoid duplication, this set of Alcatel CRs is not approved.

Alcatel: The correction is needed.

Conclusion: **Rejected**

N2-020358: TS 23.060, Rel-4, Alcatel, Type: CR, CR#395, Title: Correction concerning the APN selection in SGSN

Discussion :

Conclusion: **Rejected**

N2-020359: TS 23.060, Rel-5, Alcatel, Type: CR, Title: Correction concerning the APN selection in SGSN

Discussion :

Conclusion: **Rejected**

N2-020355: TS 29.078, R99, Alcatel, Type: CR, CR#395, Title: Correction of EventReportGPRS parameter QOS

Discussion : Subcategory: Essential correction

QoS parameter "C" but this table applies to those DPs, always sent at this DP.

ChangeOfPosition does not belong to this last table, C1 in an earlier table.

Changes in cover page have to be made.

Conclusion: **Revised to N2-020434**

N2-020434: TS 29.078, R99, Alcatel, Type: CR, CR#395, Title: Correction of EventReportGPRS parameter QOS

Discussion :

Conclusion: Approved without presentation

N2-020356: TS 23.078, Rel-4, Alcatel, Type: CR, CR#395, Title: Correction of EventReportGPRS parameter QOS

Discussion :

Conclusion: Revised to N2-020435

N2-020435: TS 23.078, Rel-4, Alcatel, Type: CR, CR#395, Title: Correction of EventReportGPRS parameter QOS

Discussion :

Conclusion: Approved without presentation

N2-020360: TS 29.078, R99, Alcatel, Type: CR, CR#247, Title: Alignement of 29.078 with 23.078 for CancelGPRS

Discussion :

Conclusion: Postponed to CN2#24

N2-020361: TS 29.078, Rel-4, Alcatel, Type: CR, CR#248, Title: Alignement of 29.078 with 23.078 for CancelGPRS

Discussion :

Conclusion: Postponed to CN2#24

N2-020374: TS 29.078, R99, Nokia, Type: CR, CR#249, Title: Misalignment in CAP3-CancelGPRS(session/PDPid) operation

Discussion : Post condition is in a wrong place

Alcatel: Wording "dialogue corresponds" on 23.078 is not correct.

This enables disarming A/D model without affecting PDP contexts. Vodafone supports the Nokia CR.

Conclusion: Postponed to CN2#24

N2-020394: TS 23.078, R99, Vodafone, Type: CR, CR#400, Title: Correction to handling when Delta is greater than received maximum threshold in an AC GPRS

Discussion : Ericsson, Alcatel, Nokia, Orange France: The ACR-GPRS should contain threshold. Could be in the SDLs. Delta reporting would be better. E-Plus disagree

Vodafone: This problem was not in CS side. Separate CR should be needed. For volume this is more relevant. Ericsson doesn't find this is a relevant case.

In the end of credit Vodafone want to download a bit less than credit.

That means Delta allows exact volume.

Siemens would like to postponed the CR to CN2#24

Conclusion: Revised to N2-020436

N2-020436: TS 23.078, R99, Vodafone, Type: CR, CR#400, Title: Correction to handling when Delta is greater than received maximum threshold in an AC GPRS

Discussion :

Conclusion: Postponed to CN2#24

N2-020395: TS 23.078, Rel-4, Vodafone, Type: CR, CR#401, Title: Correction to handling when Delta is greater than received maximum threshold in an AC GPRS

Discussion :

Conclusion: Postponed to CN2#24

7.4 CAMEL3/MO SMS

7.5 CAMEL3/Call Related

N2-020353: TS 29.078, R99, Alcatel, Type: CR, CR#245, Title: Correction of field cause in IDP for busy TDP

Discussion : Vodafone doesn't believe this is an essential correction.

Corrections in cover page are needed

Companies agreed: This is a correction but the corrections can be approved in Rel-5.

Conclusion: **Rejected**

N2-020354: TS 29.078, Rel-4, Alcatel, Type: CR, CR#246, Title: Correction of field cause in IDP for busy TDP

Discussion :

Conclusion: **Rejected**

N2-020437: TS 29.078, Rel-5, Alcatel, Type: CR, Title: Correction of field cause in IDP for busy TDP

Discussion : See N2-020353

Conclusion: **Approved**

8 CAMEL for Release 4

8.1 General and miscellaneous Rel-4 issues

8.2 CAP over IP

9 CAMEL4, Release 5

9.1 CAMEL 4 / Stage 1

9.2 Miscellaneous CAMEL 4 issues

N2-020304: CN2 Vice Chairman, Title: 23.078 - General Drafting Principles

Discussion : MCC needs to do directory for drafting rules. The right place could be Meeting Templates folder. CN2 wants to leave decision of the correct place for MCC.

The editors are allowed follow these principles, until specification becomes under change control.

Conclusion: **Noted**

N2-020305: CN2 vice Chairman, Title: 29.078 - General Drafting Principles

Discussion : Check the N2-020304 comments

Conclusion: **Noted**

N2-020385: TS 23.078, Rel-5, Siemens, Type: TS/INFO, Title: Draft 23.078 Rel-5 V5D.D.5

Discussion:**Conclusion : Noted**

N2-020387: TS 23.078, Rel-5, Siemens, Type: CR, Title: Removal of 3GPP TS 22.002 from the reference section

Discussion:**Conclusion : Approved**

N2-020349: TS 23.008, Rel-5, Alcatel, Type: CR, Title: Collective CR

Discussion: The main body of CR has included in 23.008 version 5.0.0.

Conclusion : Noted

N2-020350: TS 23.008, Rel-5, Alcatel, Type: CR, Title: Correction of criteria table

Discussion: Category have to be F – correction.

The correct base version for the CR is 5.0.0 of 23.008

Conclusion : Revised to N2-020407

N2-020407: TS 23.008, Rel-5, Alcatel, Type: CR, Title: Correction of criteria table

Discussion:**Conclusion : Endorsed by CN2**

N2-020406: TS 23.278, Rel-5, Lucent, Type: Spec, Title: Rel-5 23.278 version 1.1.0 Draft

Discussion: SDL files will be attached in the next meeting.

Conclusion : Noted

N2-020306: CN2 vice Chairman, Title: Editor's Meeting - Open Issues

Discussion :

1. Abbreviations: Ericsson volunteers. Next meeting. Could be a separate heading.
2. GSM CF: Word “GSM” not necessarily needed. Vodafone volunteers to make a CR.
3. Vodafone volunteers. To be removed from this list.
4. Primary dialogue: Alcatel volunteers. (o-CSI/D-CSI)
5. The issues shall be listed. Keep in the list, Vodafone itemizes.
6. This one is “done”. Delete this item.
7. Delete from the list, CN2 monitor CN4 as individuals
8. DisconnectFowardsConnection confusing. Keep in the list.
9. Logical CR. Ericsson will make a CR, it was part of editor’s meeting.
10. Keep it in the list.
11. Keep it in the list.
12. Keep this in the list.

Conclusion: Noted

N2-020388: TS 23.078, Rel-5, Siemens, Type: CR, Title: Route_Select_Failure shall not be disarmed implicitly when DP O_Term_Seized is encountered

Discussion: No DP numbers any more in CAMEL4 in the table.

Correction have to be made in cover page.

Conclusion : Revised to N2-020438

N2-020438: TS 23.078, Rel-5, Siemens, Type: CR, Title: Route_Select_Failure shall not be disarmed implicitly when DP O_Term_Seized is encountered

Discussion:

Conclusion : Approved without presentation

N2-020389: TS 23.078, Rel-5, Siemens, Type: CR, Title: Additional signal in CAMEL_OCH_MSC_ALERTING

Discussion: It is not reported properly when calling party clears, it was already in spec, also MT and CF alerting cases.

Conclusion : Revised to N2-020439

N2-020439: TS 23.078, Rel-5, Siemens, Type: CR, Title: Additional signal in CAMEL_OCH_MSC_ALERTING

Discussion:

Conclusion : Postponed to CN2#24

N2-020334: TS 23.078, Rel-5, Vodafone, Type: CR, Title: Detection points during Waiting for Instruction state

Discussion: CR N2-020329 makes this change unnecessary.

Conclusion : Withdrawn

N2-020338: TS 23.078, Rel-5, Vodafone, Type: CR, Title: Clarification on requirements for presence of IMEISV and MS classmark

Discussion: We can not put mandate on HLR. HLR passes on what it receives from MSC/SGSN.

IMEISV = IMEI(with software version). Will be corrected later on.

ATI: not consistent with "S" and "C".

Conclusion : Approved

N2-020367: TS 23.078, Rel-5, Ericsson, Type: CR, Title: Clarification of GPRS relationships

Discussion:

Conclusion : Postponed to CN2#24

N2-020372: TS 29.078, Rel-5, Ericsson, Type: CR, Title: GPRS relationship rules for procedure descriptions

Discussion:

Conclusion : Postponed to CN2#24

N2-020368: TS 23.078, Rel-5, Siemens, Type: CR, Title: Corrections to GPRS DP arming rules for scenario #1

Discussion: Postponed to CN2#24

Conclusion :

N2-020393: TS 29.078, Rel-5, Ericsson, Type: CR, Title: Corrections to GPRS DP arming rules for scenario #1

Discussion:

Conclusion : Postponed to CN2#24

N2-020386: TS 23.078, Rel-5, Siemens, Type: CR, Title: Scope of CAMEL4: Alignment to the current status

Discussion: Reference to 23.278 is useful.

Conclusion : Approved

N2-020316: TS 29.078, Rel-5, Ericsson, Type: CR, Title: Correction to the usage of CAP Module versions

Discussion :

Which CAP version for D-CSI?

CAPv4 can be used.

Misalignment between 7.1 comment and clause. MO SMS not needed, not the sentence either.

CN2 decided to remove MO SMS.

Version is "3" within the brackets.

IMEI transfer may impact on this issue. GPRS part is copied.

Alcatel wants to refer to R99 ASN + procedures.

Copying may be a good option.

SRF interface: Announcement started and completed parameters require it.

Vodafone: Note in section 12 should be removed – issue is open.

Also note should be removed.

Conclusion : We copy R99 MO SMS ASN to Rel-5, and for GPRS we keep the existing copy of CAPv3.

Conclusion: Revised to N2-020455

N2-020455: TS 29.078, Rel-5, Ericsson, Type: CR, Title: Correction to the usage of CAP Module versions

Discussion :**Conclusion: Approved without presentation**

N2-020317: TS 29.078, Rel-5, Ericsson, Type: CR, Title: Introduction of "Unknown CS ID" CAP Operation Error

Discussion :**Conclusion: Approved**

N2-020376: TS 23.078, Rel-5, Nokia, Type: CR, Title: CAMEL4 CSIs in ATSI operation

Discussion: Vodafone supports Nokia in this proposal

Alcatel does not like the proposal. Alcatel proposes a note stating the parameter name.

T-Mobil support Alcatel.

Siemens wants to add reference to 29.002, rough encoding.

Lucent supports.

Vodafone proposes a new line into CAMEL subscription information table.

Parameter names are not identical.

Conclusion : Revised to N2-020412

N2-020412: TS 23.078, Rel-5, Nokia, Type: CR, Title: CAMEL4 CSIs in ATSI operation

Discussion: "C" missing in ATSI-ack.

Conclusion : Revised to N2-020450

N2-020450: TS 23.078, Rel-5, Nokia, Type: CR, Title: CAMEL4 CSIs in ATSI operation

Discussion:**Conclusion : Approved without reservation**

N2-020318: TS 29.078, Rel-5, Ericsson, Type: CR, Title: Clean-up of section 10

Discussion : Operation list of 317 shall be cancelled if this CR approved.

Some editorials are against drafting rules:

"clause*"

Capital letter (Error)

Subclause is the correct one.

"SCP should take action..." sentence does not tell anything new.

Sentences are removed everywhere.

Conclusion: Postponed to CN2#24

N2-020400: TS 29.078, Rel-5, Ericsson, Type: CR, Title: Clarification on the marking of OPTIONAL and MANDATORY for parameters in CAP

Discussion:

Conclusion : Postponed to CN2#24

N2-020373: TS 29.078, Rel-5, Ericsson, Type: CR, Title: Correction to CAP V4 AC version

Discussion:

Conclusion : Postponed to CN2#24

N2-020402: TS 23.078, Rel-5, Ericsson, Type: CR, Title: Refinement to the usage of "cause" for service triggering

Discussion:

Conclusion : Postponed to CN2#24

9.3 CAMEL4 / Interactions with Optimal Routing

N2-020341: TS 23.078, Rel-5, Ericsson, Type: CR, Title: Clean-up and correction of Location Information tables

Discussion: VLR# does not change in inter-MSR handover. No VLR# or MSR# of target switch.

23.078 was changed to reflect only differences compared to 23.018. Vodafone is not happy to change it back.

Siemens agrees with Vodafone

Vodafone wants to Ericsson separate the technical changes against 23.018. It's quite difficult to see changes in here.

T-Mobil supports the CR.

Nokia supports to send all parameters in all cases. It is easier implementation.

Telecom Italia supports Nokia's view.

A document will be postponed to CN2#24. E-mail discussion is needed.

Conclusion : Postponed to CN2#24

9.4 CAMEL4 / Call Party Handling

N2-020307: Rel-5, Vodafone, Type: Discussion document, Title: CPH: Open Issues & Decisions

Discussion: 6. Vodafone wants to suspend other legs (alerting/active) of CS if one leg meets a DP.

Alcatel agrees with Vodafone.

Nokia: There is no service requirement to play announcement to alerting legs.

Vodafone: We are happy to limited this for active legs being suspended

CN2 decision:

CN2 accept the service requirement to play an announcement for a call a call segment when one of the call parties of Cs is suspended at a DP.

8. In ICA calls out-of-the-blue there may be reason to have Tw for some party. The 1st ICA party is considered as served party.

CN2 decision: Tw only for the party that is identified (legID) by the ApplyCharging operation.

supported by Alcatel, CDOT, Telecom Italia, Nokia, Lucent, Ericsson, T-Mobil, Siemens

9.CN2 decision:

If the SCP does not reply with an AC to ACR then the entire call is released.

16. Lawful interception: CN2 decided to leave it open.

20. CN2 decision:

It is not allowed to allow to move or split leg during SCP UI Neither the source or call segment is allowed to be in user interaction.

22. open issue

23. CN2 decision:

SCP takes care as in decision number D1 (already there in the paper).

Conclusion : Revised to N2-020440

N2-020440: Rel-5, Vodafone, Type: Discussion document, Title: CPH: Open Issues & Decisions

Discussion: A source will send a document out via e-mail a week after meeting.

Conclusion : Noted

N2-020313: TS 23.078, Rel-5, Vodafone, Type: CR, Title: Contents of CWA at DP3

Discussion:

Conclusion : Approved

N2-020302: TS 23.078, Rel-5, Vodafone/Alcatel, Type: CR, Title: Use of Abort and of Application begin and end between the CS_gsmSSF, CSA_gsmSSF and gsmSCF

Discussion:

Conclusion : Approved

N2-020308: TS 23.078, Rel-5, Vodafone, Type: CR, Title: Moving to MidCall DP after CPH operation

Discussion: 1. Is INT_Error applicable to MidCall DP states?

More study is needed. Vodafone will check this back at home. May be CR is needed on the future. The answer for question is YES.

2. Should the Reconnect procedures (e.g. CAMEL_OCH_RECONNECT_MSC, called by CAMEL_OCH_LEG2_MSC) be able to handle the Int_MidCall signal? If so, should the signal be saved, or dealt with in the procedure?

Midcall DP should be handling after re-routing. The answer for question is YES.

3. If a NP call leg is moved into CSID1 during the Alerting phase of the "normal A-B" call, the procedures in 3GPP TS 23.018 will receive INT_MidCall. This needs to be specified in an additional change request.

No leg shall be moved into CSID1 until leg1 and leg2 become active.

Stage1 may have to be changed.

Conclusion : Approved

N2-020309: TS 29.078, Rel-5, Vodafone, Type: CR, Title: Moving to MidCall DP after CPH operation

Discussion: Note will be removed as supposed

Conclusion : Revised to N2-020443

N2-020443: TS 29.078, Rel-5, Alcatel, Type: CR, Title: Moving to MidCall DP after CPH operation

Discussion:

Conclusion : Approved without presentation

N2-020310: TS 23.078, Rel-5, Vodafone, Type: CR, Title: Introduction of Disconnect Leg ack

Discussion:

Conclusion : Approved

N2-020312: TS 23.078, Rel-5, Vodafone, Type: CR, Title: Handling of UUS and CCBS for reconnect on Leg2 disconnect

Discussion: CAMEL_OCH_RECONNECT_MSC is called only after answer

Conclusion: Approved

N2-020331: TS 23.078, Rel-5, Vodafone, Type: CR, Title: Leg Status update for leg 1 due to change in leg 2

Discussion:

Conclusion : Withdrawn

N2-020335: TS 23.078, Rel-5, Vodafone, Type: CR, Title: Alignment of HLR and SCF on Provide Roaming Number

Discussion:

Conclusion : Approved

N2-020397: TS 23.078, Rel-5, Nokia, Type: CR, Title: Suppress-T-CSI in SRI from SCP

Discussion: Vodafone & Ericsson support the CR.

Solution works with old HLRs that support CAMEL but not CAMEL4. The new HLR would be simpler.

Alcatel wants a change to be optional.

Conclusion : Approved

N2-020314: TS 29.078, Rel-5, Vodafone, Type: CR, Title: Mapping from CAP to ISUP of parameters of ICA and CWA

Discussion: Due to ICA-ack, no grouping of CAP operations into a single TC message is needed.

What to do with mandatory ISUP parameters when not part of ICA/CWA?

ISUP default values could be used.

Nokia: All parameters are not ISUP default values, their value may depend on MSC configuration or software.

Conclusion : Revised to N2-020444

N2-020444: TS 29.078, Rel-5, Vodafone, Type: CR, Title: Mapping from CAP to ISUP of parameters of ICA and CWA

Discussion:

Conclusion : Approved

N2-020311: TS 23.078, Rel-5, Vodafone, Type: CR, Title: Disconnect Leg operation for gsmSCF-initiated call leg

Discussion: Needed for hunting. Spontaneous CPH operation in alerting phase or any phase in call.

Conclusion : **Revised to N2-020456**

N2-020456: TS 23.078, Rel-5, Vodafone, Type: CR, Title: Disconnect Leg operation for gsmSCF-initiated call leg

Discussion:

Conclusion : **Approved without presentation**

N2-020332: TS 23.078, Rel-5, Alcatel, Type: CR, Title: Disconnect Leg during call establishment

Discussion: CWA is also needed in Leg2_Disconnected state.

Conclusion : **Revised to N2-020449**

N2-020449: TS 23.078, Rel-5, Alcatel, Type: CR, Title: Disconnect Leg during call establishment

Discussion:

Conclusion : **Approved without presentation**

N2-020333: TS 29.078, Rel-5, Vodafone, Type: CR, Title: Use of Disconnect Leg procedure

Discussion:

Conclusion : **Postponed to CN2#24**

N2-020328: TS 23.078, Rel-5, Vodafone, Type: CR, Title: Text for Procedure CAMEL_ICH_CF_LEG2_MSC

Discussion:

Conclusion : **Approved**

N2-020329: TS 23.078, Rel-5, Vodafone, Type: CR, Title: Correction to handling of Continue and CWA

Discussion:

Conclusion : **Approved**

N2-020330: TS 29.078, Rel-5, Vodafone, Type: CR, Title: Use of Split Leg to create CSID1

Discussion:

Conclusion : **Postponed to CN2#24**

N2-020339: TS 23.078, Rel-5, Vodafone, Type: CR, Title: Update of CSA_gsmSSF and Update_Signalling

Discussion: Changes leg state also when the other leg state changes.

Incoming leg is leg1 in this CR. ICA out-of-the-blue, leg is anything else but 1. There is a section for legIDs in stage 2.

Whether CSID1 could be created SplitLeg or MoveLeg.

Vodafone assumes that SplitLeg is used.

Conclusion: ICA shall not be used to create leg1. A separate CR is needed.

Conclusion : **Approved**

N2-020340: TS 23.078, Rel-5, Vodafone, Type: CR, Title: Alerting DP in Waiting_For_Instructions

Discussion:

Conclusion : **Approved**

N2-020398: TS 23.078, Rel-5, Nokia, Type: CR, Title: ORLCF handling for calls with ICA(MSRN)

Discussion:

Conclusion : Postponed to CN2#24

9.5 CAMEL4 / DTMF Mid-call DP

N2-020301: TS 23.078, Rel-5, Vodafone, Type: CR, Title: Collection of DTMF digits

Discussion: *Start DTMF* is the signal from MS. 23.014 presents this signal.

Is it ok to start processing when digit starts? Minimum length is in 23.014 for MSC

Nokia does not want to specify collection of DTMF digits. Should be proprietary. We could have a textual procedure in the MSC that sends DTMF signals to SSF.

Replace macro by procedure.

End-of-reply-digit may need some clarification.

Stop of collection is not described here.

Conclusion : revised to N2-020445

N2-020445: TS 23.078, Rel-5, Vodafone, Type: CR, Title: Collection of DTMF digits

Discussion: Stop of collection is not described here.

Drafting rules have different wording than a "current document".

What if rearming while collection?

In the SDL would WF next digit and then check against new criteria.

T-Mobil opts clearing of digits.

Nokia supports.

Who checks the criterion?

MSC checks. Then SSF check is no needed. A comment box added to SSF.

Conclusion : Revised to N2-020454

N2-020454: TS 23.078, Rel-5, Vodafone, Type: CR, Title: Collection of DTMF digits

Discussion:

Conclusion : Approved

N2-020315: TS 23.078, Rel-5, Vodafone, Type: CR, Title: Handling of MidCall DP

Discussion:

Conclusion : Withdrawn

9.6 CAMEL4/IMS

N2-020406 : TS 29.278, Rel-5 , Lucent , Type: TS/INFO, Title: The latest draft of 29.278

Discussion :

Conclusion : Noted

N2-020297 : TS 23.278, Rel-5 , Lucent , Type: CR, Title: Si Interface Information Flows

Discussion : CN4 will decide the protocol and which operations to use. Decided in CN#14.

Chairman: Does anyone else proposal any other protocol than MAP?

CN2 seems to go by MAP. Alcatel: There might be some other protocol, so we should wait CN4 decision.

Vodafone & Alcatel support

ATSI(O-CSI), ATSI-ack(O-IM-CSI): How HLR knows which one to return?

IM SSF address is part of the HLR data. Address somewhere in HLR.

Lucent doesn't agree to send individual IM-SSF.

Will O-CSI be identical to O-IM-CSI also in future???

Expected to remain the same by Lucent.

Vodafone: HSS should be a dummy database. This proposal adds logic into it.

Nokia tdoc N2-020376 introduces analogous changes for MT-SMS-CSI, MG-CSI.

Vodafone supports this approach.

Siemens supports new parameters.

Nokia: All IMS CSIs could be interrogated at once,

Vodafone supports. There could be a value if also value for individuals as well.

Alcatel: Why not ISD? This would add 3rd mobility management into HLR.

What about the error handling if all CSIs can be handled at once?

Lucent does not find individual CSI handling relevant.

Lucent: VT-CSI is more appropriate than T-CSI

Conclusion : Revised to N2-020408

N2-020408 : TS 23.278, Rel-5 , Lucent , Type: CR, Title: Si Interface Information Flows

Discussion : Notification part moved to 396/416

"following changes" text is not necessary.

This CR adds a totally new parameter into the MAP protocol.

Conclusion : Revised to N2-020426

N2-020426 : TS 23.278, Rel-5 , Lucent , Type: CR, Title: Si Interface Information Flows

Discussion : Chairman: A document will be sent to CN4 without endorsement, source Lucent.

Lucent: We should make an endorsement inside the CN2.

Siemens & Vodafone can't accept the endorsement because the protocol selection is made by CN4.

Alcatel: If CN4 decide it's MAP. We can accept this.

Conclusion : Noted

N2-020392 : TS 23.278, Rel-5 , Siemens, Type: CR, Title: Subscriber Information Management in IMS

Discussion : Supplementary services: Are they specified for IMS?

No. That means: No SDLs should be introduced to modify them.

CSI handling is HLR functionality, not HSS.

IS ATM part of the proposal or not?

Yes it is.

Base version: SDLs of CAMEL3 were originally copied.

SDLS need to replace HLR have to be changed as HSS.

Lucent: HSS will not do the same functionality as HLR.

This should be sent to CN4 for information.

Si interface needs a different name for HSS (SCP-HSS).

SA2 discussion is needed.

Change of page 4 should be cancelled.

LS (N2-020410) to: SA2, cc: CN4

Conclusion : Revised to N2-020409

N2-020410 : Siemens, Type: Output LS, Title: Subscriber Information Management in IMS

Discussion :

Conclusion : Revised to N2-020432

N2-020432 : Siemens, Type: Output LS, Title: Subscriber Information Management in IMS

Discussion : Information can find from 23.002.

Conclusion : Withdrawn

N2-020409 : TS 23.278, Rel-5 , Siemens, Type: CR, Title: Subscriber Information Management in IMS

Discussion : Siemens: This is SCP-HSS, Lucent is IMSSF-HSS.

Service Requirement?

It's not clear if it's covered or not. Supplementary services are not defined for IMS in HSS.

Chairman: Service requirement unclear, in the Stage 1 no clear indication which requirements apply to IMS and which ones do not.

Conclusion : Noted, Document is sent to CN4; source: Siemens

N2-020396 : TS 23.278, Rel-5 , Lucent, Type: CR, Title: IM-SSF Notification of HSS Update of CSI

Discussion : Siemens: How about signalling load if not registered?

Nokia: Who and when sets the notification flag.?

Lucent: At the provisioning.

Orange France: IMS SSF address is different per registrations. Can notification address changed dynamically?

Nokia proposes dynamic mechanism during registration when ATI registration is sent

According to proposal IMS SSF address is just one entry on the list.

Conclusion : Revised to N2-020416

N2-020416 : TS 23.278, Rel-5 , Lucent, Type: CR, Title: IM-SSF Notification of HSS Update of CSI

Discussion :

Dynamic addressing proposed here.

IM SSF co-located with CSCF, the latter is dynamically selected.

Wording change "when" to "in".

NSDC still has O-CSI. Shall be change to IM CSIs.

"following changes" text not needed.

"Set to yes" could include the reason.

Conclusion : Revised to N2-020427

N2-020427 : TS 23.278, Rel-5 , Lucent, Type: CR, Title: IM-SSF Notification of HSS Update of CSI

Discussion : A document will be sent to CN4; source Lucent

Conclusion : Noted by CN2

N2-020299 : TS 23.278, Rel-5 , Lucent , Type: CR, Title: Correction of SDLs for CAMEL IMCN Register/Deregister

Discussion : Dynamic/static addressing impacts on this CR also.

Deregistration needs to be informed in dynamic addressing.

Conclusion : Revised to N2-020411

N2-020411 : TS 23.278, Rel-5 , Lucent , Type: CR, Title: Correction of SDLs for CAMEL IMCN Register/Deregister

Discussion : Vodafone: We are concerned about the duplications of SDLs.

Editor will check if there are some duplications which can be removed.

Setting of timer? Tno_response was the MAP operation timer.

CN2 decided to remove the timer from SDLs.

Conclusion : Revised to N2-020428

N2-020428 : TS 23.278, Rel-5 , Lucent , Type: CR, Title: Correction of SDLs for CAMEL IMCN Register/Deregister

Discussion : Document is sent to CN4; source Lucent

Conclusion : Noted by CN2

N2-020300 : TS 23.278, Rel-5 , Lucent , Type: CR, Title: Various Misc corrections/modifications to TS 23.278

Discussion : Lucent asked to postponed the document to next meeting.

Conclusion: Postponed to CN2#24

N2-020298 : TS 23.278, Rel-5 , Lucent , Type: CR, Title: CAP Information Flows for IM CAMEL Services

Discussion : ImcnSSF wording used, the process. Imssf is the network element.

SIP conveys E.164 numbers only. Is calledPartyBCDNumber needed?

URL may be needed.

Is user interaction needed?

It's there, but operation is missing.

Media type, 22.078 has it FFS. Stage 1 may need a change.

FFS also in stage 2.

The document will be revised. Revised version will be available at CN2#24

Conclusion : Noted

N2-020327 : New specification for IMS/CAMEL stage 3, Rel-5 , Lucent , Type: CR, Title: Stage 3 CAP specification for CAMEL/IMS

Discussion :

Conclusion : Postponed to CN2#24

9.7 CAMEL control over MT SMS

N2-020320: TS 29.078, Rel-5, Ericsson, Type: CR, Title: Introduction of Called Party Number for InitialDPSMS for MT-SMS

Discussion : Alcatel and T-Mobil supports.

Address conversion is tried to be avoided by this CR.

A lot of questions will arise if CR approved.

Stage 3 should not describe the conditions for presence.

E-Mobil does not like the proposal

Conclusion: Postponed to CN2#24

N2-020321: TS 29.078, Rel-5, Ericsson, Type: CR, Title: Correction to mapping between MAP and CAP for MT-SMS

Discussion :

Conclusion: Approved

N2-020322: TS 23.078, Rel-5, Ericsson, Type: CR, Title: Introduction of Called Party Number for InitialDPSMS for MT-SMS

Discussion :

Conclusion: Postponed to CN2#24

9.8 Inclusion of flexible tone injection

N2-020401: TS 23.078, Rel-5, Ericsson, Type: CR, Title: Correction to section on "Audible indicators for call duration control"

Discussion :

Conclusion: Postponed to CN2#24

9.9 Charging notification to CSE

N2-020342: Rel-5, C-DOT, Type: DISC, Title: Open Issues for Charging Notification Feature

Discussion : 1. GMSC requires charging notifications.

5. OR: Depends on the GMSC solutions.

Conclusion: Noted

N2-020369: C-DOT, Type: DISC, Title: Optionality of Charging notifications through InitialDP

Discussion: T-Mobil wants to indicate also to HLR if charging notification is supported.

Vodafone supports idea.

Nokia: proposes separate CAP AC.

Ericsson: More testing is needed if two application context are created for Charging notification and CPH. Not a good idea.

Conclusion:

1. IDP could indicate support for ENC/RNC.
2. The support of charging notification is indicated both in CAP and MAP protocols.

3. CN2 introduce CAMEL4-subsets parameter into ICA-ack + supported CAMEL phases could be included.

Conclusion: Noted

N2-020370: C-DOT, Type: DISC, Title: Charging notifications in various call scenarios

Discussion: Main principles are agreed

Conclusion: Noted

N2-020347: TS 23.078, Rel-5, C-DOT, Type: CR, Title: Optionality of Charging Notification Feature through Initial DP

Discussion :

Conclusion: Noted

N2-020348: TS 29.078, Rel-5, C-DOT, Type: CR, Title: Optionality of Charging Notification Feature through Initial DP

Discussion: Noted

Conclusion:

N2-020371: TS 23.078, Rel-5, C-DOT, Type: CR, Title: Charging notifications in various call scenarios

Discussion:

Conclusion: Postponed to CN2#24

N2-020343: TS 23.078, Rel-5, C-DOT, Type: CR, Title: Interaction between SCI and Charging Notification Feature

Discussion : The 1st sentence could be removed. Rewording is needed.

Vodafone has expected that SCI e-parameters would be reported in ENC.

E-Plus supports Vodafone.

Ericsson: SCI would be a charging event that may need a requirement.

Alcatel doesn't want interaction.

T-Mobil agrees with Lucent.

C-DOT wants to keep this independent.

A parameter in RNC could indicate which option.

Nokia: SCI overwrites MSC e-parameters.

SCI needs a change also.

What is CAMEL2 functionality is wanted?

A tutorial would be needed.

Conclusion: Noted

N2-020344: TS 23.078, Rel-5, C-DOT, Type: CR, Title: Charging Notification Feature at GMSC for basic MT call

Discussion : This based on e-mail discussions.

SDL form would be nice.

When to send and when not.

Conclusion: Combined with N2-020345 and revised as N2-020446

N2-020345: TS 23.078, Rel-5, C-DOT, Type: CR, Title: Charging Notification Feature at GMSC for NC and NP cases

Discussion : On the page 3: The whole last sentence is removed.

The title is changed

Conclusion: Combined with N2-020344 and revised as N2-020446

N2-020446: TS 23.078, Rel-5, C-DOT, Type: CR, Title: Charging Notification Feature at GMSC

Discussion : The revision of N2-020344 & N2-020345.

Conclusion: Approved without presentation

N2-020346: TS 23.078, Rel-5, C-DOT, Type: CR, Title: Charging Notification Feature at GMSC for forwarding case

Discussion :

Conclusion: Withdrawn

9.10 Enhancements of dialled services

9.11 Provision of location information of called subscriber

N2-020336: TS 29.002, Vodafone, Type: CR, Title: Corrections to the handling of Any Time Interrogation and Provide Subscriber Info

Discussion : Why parameter "M" in service primitive?

Stage 2 can have it mandatory. Have to be changed.

Conclusion: Revised to N2-020413

N2-020413: TS 29.002, Vodafone, Type: CR, Title: Corrections to the handling of Any Time Interrogation and Provide Subscriber Info

Discussion : A document is sent to CN4 for approval.

Conclusion: Endorsed by CN2

9.12 Notification of GPRS mobility management to CSE

N2-020390: TS 23.078, Rel-5, Siemens, Type: CR, Title: MM-GPRS not reported by the old SGSN

Discussion : There might be some effect in 23.060. CR is needed later on?

Conclusion: Approved

9.13 CAMEL4/ ODB in HLR-SCP interface

9.14 CAMEL4/ Location Information during ongoing call

N2-020391: TS 23.078, Rel-5, Siemens, Type: CR, Title: Change request type in LOCATION REPORTING CONTROL

Discussion :

Conclusion: Approved

N2-020399: TS 23.078, Rel-5, Ericsson, Type: CR, Title: Correction to Hand-over notification

Discussion :

Conclusion: Postponed to CN2#24

9.15 CAMEL4/GPRS AnyTimeInterrogation

N2-020323: TS 29.002, Rel-5, Vodafone, Type: CR, Title: Transferring the MS classmark & IMEI to the gsmSCF

Discussion : Alcatel proposes change "ms-classmark" to "classmark".

Alcatel wants to combine one field for both domains; it's not inline with stage 2!!!

Conclusion: Revised to N4-020414

N2-020414: TS 29.002, Rel-5, Vodafone, Type: CR, Title: Transferring the MS classmark & IMEI to the gsmSCF

Discussion :

Conclusion: Endorsed by CN2, CR has sent to CN4 for approval

N2-020324: TS 29.078, Rel-5, Vodafone, Type: CR, Title: Transferring the MS classmark & IMEI to the gsmSCF

Discussion : Encoding shall be in ASN, not in procedure descriptions.

The fact the types are imported from MAP is enough. There are no need to say about encoding.

"Shall be present" statements are removed.

IMEI with software version wording is not consistent

Conclusion: Revised to N2-020417

N2-020417: TS 29.078, Rel-5, Vodafone, Type: CR, Title: Transferring the MS classmark & IMEI to the gsmSCF

Discussion :

Conclusion: Approved without presentation

N2-020325: Vodafone, Type: DISC, Title: Open issues on the transfer of IMEI & classmark information to the gsmSCF

Discussion : 1. OK

2. OK

3. OK

4. Is IMEIsent only when available?

It is marked as conditional.

Available means "before request".

5. Ericsson is not exited about the delta presentation.

6. Vodafone proposes to copy R99 SMS CAP to Rel-5 with clarifying words. CAPv3 would be used.

Alcatel wants to change R99 ASN.

Nokia supports Alcatel.

Conclusion: Vodafone tries to copy R99 ASN into Rel-5 before next meeting.

Conclusion: Noted

N2-020351: TS 29.002, Alcatel, Type: CR, Title: PDP context active state

Discussion : Vodafone wants to see 22.078 changes first.

Base version is incorrect. There is no collective CR anymore.

Updates in cover page are needed.

Conclusion: Revised to N2-020418

N2-020418: TS 29.002, Alcatel, Type: CR, Title: PDP context active state

Discussion : Title was incorrect

Conclusion: **Revised to N2-020430**

N2-020430: TS 29.002, Alcatel, Type: CR, Title: PDP context active state

Discussion : Endorse without presentation. Document will send to CN4

Conclusion: **Endorsed by CN2**

N2-020352: TS 23.078, Alcatel, Type: CR, Title: Change PS-connected to PS- PDPactive

Discussion :

Conclusion: **Revised to N2-020420**

N2-020420: TS 23.078, Alcatel, Type: CR, Title: Change PS-connected to PS- PDPactive

Discussion :

Conclusion: **Revised to N4-020429**

N2-020429: TS 23.078, Alcatel, Type: CR, Title: Change PS-connected to PS- PDPactive

Discussion :

Conclusion: **Approved without presentation**

N2-020419: TS 22.078, Alcatel, Type: CR, Title: Change PS-connected to PS- PDPactive

Discussion :

Conclusion: **Endorsed by CN2**

9.16 CAMEL4 Functional split into subsets

N2-020362: Alcatel, Type: DISC, Title: Splitting of CAMEL phase 4

Discussion : Nokia: Split of basic call handling is complicated.

Vodafone and Nokia want to keep basic call handling as a one package.

T-Mobil, E-Plus, Siemens and Lucent support the Alcatel proposal.

Charging notification: requires other subsets.

Vodafone: CPH split would require huge changes. SA1 has agreed this principle. This proposal is not according to Stage 1.

Nokia & Ericsson supports Vodafone view.

Proposal would change service logic launch: Protocol + ServiceKey have been the traditional ones methods

CN2 needs a service requirement from SA1 before the want to continue with the CPH issue.

Conclusion: **Noted**

N2-020363: TS 23.078, Rel-5, Alcatel, Type: CR, Title: Splitting of CAMEL phase 4

Discussion : New section 6.5.10 may be a duplication. Relevance for splitting.

"Supported CAMEL functions", how about CAMEL5? Future proof a parameter .

Page 19: Check is not needed.

No need to check in HLR what you support yourself.

Why GMSC need VLR supported CAMEL phases?

It does not hurt, but originally this was intended for the SCP case.

Vodafone wants to have a general introduction section.

- General options.
- Check list.
- "Scope".
- Clear separation between basics and add-ons.

Are the SDLs impacted?

Not known yet.

Nokia proposes application contexts. It is a one way to avoid error handling.

Conclusion: revised to N2-020421

N2-020421: TS 23.078, Rel-5, Alcatel, Type: CR, Title: Splitting of CAMEL phase 4

Discussion : The sections with cancelled changes should be removed.

MSCCAMELphase4Capabilities name was not corrected.

No need to check in HLR SDLs whether SGSN supports the feature. The SCP should know it.

T-Mobil: No need in HLR to check.

SDL change is cancelled.

Need to list which subsets apply to which network elements.

A table of possible combinations.

If one subset is supported then CAMEL4 bit of the SupportedCAMELphases shall be set on.

Conclusion: Will be revised to CN2#24

N2-020364: TS 29.002, Rel-5, Alcatel, Type: CR, Title: Splitting of CAMEL phase 4

Discussion :

Conclusion: Revised to N2-020422

N2-020422: TS 29.002, Rel-5, Alcatel, Type: CR, Title: Splitting of CAMEL phase 4

Discussion : Cover page needs a improvement

CPH bit still present, shall be "Basic call handling".

ATIgprs should be ATI-GPRS

"Other values" should be "other bits".

Charging Notification w/o CS-call handling?

Stage 2 issue.

GMSC part is missing.

Alcatel: It's included

Conclusion: Revised to N2-020433

N2-020433: TS 29.002, Rel-5, Alcatel, Type: CR, Title: Splitting of CAMEL phase 4

Discussion :

Conclusion: Postponed to CN2#24

N2-020365: TS 29.078, Rel-5, Alcatel, Type: CR, Title: Splitting of CAMEL phase 4

Discussion :

Conclusion: revised to N2-020423

N2-020423: TS 29.078, Rel-5, Alcatel, Type: CR, Title: Splitting of CAMEL phase 4

Discussion :

Conclusion: Postponed to CN2#24

N2-020366: TS 23.008, Rel-5, Alcatel, Type: CR, Title: Splitting of CAMEL phase 4

Discussion :

Conclusion: Revised to N2-020424

N2-020424: TS 23.008, Rel-5, Alcatel, Type: CR, Title: Splitting of CAMEL phase 4

Discussion : Must be checked against new base version 23.008.

USSD in the table refers to wrong section, 2.14.2.4. Will be in a separate CR.

Conclusion: Postponed to CN2#24

10 Review of dates and hosts for future meetings

Review of the N2 meeting schedule for 2002

TITLE	TYPE	DATES	LOCATION	CTRY
3GPPCN2#24	WG	13-17 May 2002	Budapest	Hungary
3GPPCN2#25	WG	29 July-2 August 2002	Helsinki	Finland
3GPPCN2#26	WG	23-27 September	TBD	USA
3GPPCN2#27	WG	11-15 November	Bangkok	Thailand

11 Closing of the meeting (15:30 Friday)

Action points for CN2#24:

Deadline for tdoc request 9th May 12:00 CET

Deadline for submit the documents 9th May 23:59 CET

Annex A Participant list

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Annex B Output Documents

Approved Change Requests for CAMEL Phase 2

TDoc #	Agenda Item	Type	Title	Source	WI	CR #	RevCat	Spec	Rel	Version
N2-020441	6.2	CR	(Revised N2-020377) Clarification in the case multiple RRBs are sent for a DP	Siemens AG	CAMEL2	A170	2F	03.78	R97	6.A.0
N2-020451	6.2	CR	Clarification in the case multiple RRBs are sent for a DP	Siemens AG	CAMEL2	A171	1A	03.78	R98	7.7.0
N2-020452	6.2	CR	Clarification in the case multiple RRBs are sent for a DP	Siemens AG	CAMEL2	398	1A	23.078	R99	3.C.0
N2-020453	6.2	CR	Clarification in the case multiple RRBs are sent for a DP	Siemens AG	CAMEL2	399	1A	23.078	Rel-4	4.4.0

Approved Change Requests for CAMEL Phase 3

TDoc #	Agenda Item	Type	Title	Source	WI	CR #	RevCat	Spec	Rel	Version
N2-020434	7.3	CR	(Revised N2-020355) Correction of EventReportGPRS parameter QOS	Alcatel	CAMEL phase3	395	1F	23.078	R99	3.12.0
N2-020435	8	CR	Correction of EventReportGPRS parameter QOS	Alcatel	CAMEL phase3	396	1A	23.078	Rel-4	4.4.0

Endorsed Change Requests for CAMEL Phase 3

None

Approved Output Liaison Statements

TDoc #	Agenda Item	Type	Title	Source
N2-020447	4	Output LS	Reply to Liaison Statement “Annex of Information Tables (A.1, A.2, A.3 and A.4) in 22.078”	Alcatel

Approved and endorsed Change Requests for CAMEL Phase 4

TDoc #	Agenda Item	Type	Title	Source	WI	CR #	Rev	Cat	Spec	Rel	Version	Decision
N2-020302	9.4	CR	Use of Abort and of Application begin and end between the CS_gsmSSF, CSA_gsmSSF and gsmSCF	Alcatel, Vodafone	CAMEL4			F	23.078	Rel-5	5D.13.5	Approved
N2-020308	9.4	CR	Moving to MidCall DP after CPH operation	Vodafone	CAMEL4		2	C	23.078	Rel-5		Approved
N2-020310	9.4	CR	Introduction of Disconnect Leg ack	Vodafone	CAMEL4		1	B	23.078	Rel-5		Approved
N2-020312	9.4	CR	Handling of UUS and CCBS for reconnect on Leg2 disconnect	Vodafone	CAMEL4		1	F	23.078	Rel-5		Approved
N2-020313	9.4	CR	Contents of CWA at DP3	Vodafone	CAMEL4		1	F	23.078	Rel-5		Approved

N2-020317	9.2	CR	Introduction of "Unknown CS ID" CAP Operation Error	Ericsson	CAMEL4			F	29.078	Rel-5	D5.7.2	Approved
N2-020321	9.7	CR	Correction to mapping between MAP and CAP for MT-SMS	Ericsson	CAMEL4			F	29.078	Rel-5	d5.7.2	Approved
N2-020328	9.4	CR	Text for Procedure CAMEL_ICH_CF_LEG2_MSC	Vodafone	CAMEL4			F	23.078	Rel-5	5D.13.5	Approved
N2-020329	9.4	CR	Correction to handling of Continue and CWA	Vodafone	CAMEL4			F	23.078	Rel-5	5D.13.5	Approved
N2-020335	9.4	CR	Alignment of HLR and SCF on Provide Roaming Number	Alcatel	CAMEL4			F	23.078	Rel-5	5D. 13.5	Approved
N2-020338	9.2	CR	Clarification on requirements for presence of IMEISV and MS classmark	Vodafone	CAMEL4			D	23.078	Rel-5	5D.13.5	Approved
N2-020339	9.4	CR	Update of CSA_gsmSSF and Update_Signalling	Vodafone	CAMEL4			F	23.078	Rel-5	5D.13.5	Approved
N2-020340	9.4	CR	Alerting DP in Waiting_For_Instructions	Vodafone	CAMEL4			F	23.078	Rel-5	5D.13.5	Approved
N2-020386	9.2	CR	Scope of CAMEL4: Alignment to the current status	Siemens AG	CAMEL4			F	23.078	Rel-5	5D.D.5	Approved
N2-020387	9.2	CR	Removal of 3GPP TS 22.002 from the reference section	Siemens AG	CAMEL4			D	23.078	Rel-5	5D.D.5	Approved
N2-020390	9.12	CR	MM-GPRS not reported by the old SGSN	Siemens AG	CAMEL4			F	23.078	Rel-5	5D.C.1	Approved
N2-020391	9.14	CR	Change request type in LOCATION REPORTING CONTROL	Siemens AG	CAMEL4			F	23.078	Rel-5	5D.D.5	Approved
N2-020397	9.4	CR	Suppress-T-CSI in SRI from SCP	Nokia	CAMEL4			F	23.078	Rel-5	5d.13.0	Approved

N2-020407	9.2	CR	Correction of criteria table	Alcatel	CAMEL phase4			B	23.008	Rel-5	CR	Endorsed by CN2
N2-020413	9.4	CR	Use of Disconnect Leg procedure	Alcatel	CAMEL4			F	29.078	Rel-5	d5.7.2	Endorsed by CN2
N2-020414	9.15	CR	(Revised to N2-020323) Transferring the MS classmark & IMEI to the gsmSCF	Vodafone	CAMEL4			B	29.002	Rel-5	5.1.0	Endorsed by CN2
N2-020417	9.15	CR	Transferring the MS classmark & IMEI to the gsmSCF	Vodafone	CAMEL4			B	29.078	Rel-5	D5.7.2	Approved
N2-020419	9.15	CR	PDP context active state	Alcatel	CAMEL phase4			D	22.078	Rel-5		Endorsed by CN2
N2-020429	9.15	CR	(Revised N2-020420) Change PS-connected to PS- PDPactive	Alcatel	CAMEL phase4			D	23.078	Rel-5	5.D.5	Approved
N2-020430	9.15	CR	(Revised N2-020418) PDP context active state	Alcatel	CAMEL phase4			D	29.002	Rel-5	5.1.0	Endorsed by CN2
N2-020437	8	CR	Correction of field cause in IDP for busy TDP	Alcatel	CAMEL phase4			A	29.078	Rel-5	D572	Approved
N2-020438	9.2	CR	(N2-020388 revision) Route_Select_Failure shall not be disarmed implicitly when DP O_Term_Seized is encountered	Siemens AG	CAMEL4			F	23.078	Rel-5	5D.C.1	Approved
N2-020443	9.4	CR	Moving to MidCall DP after CPH operation	Vodafone	CAMEL4			2D	29.078	Rel-5		Approved

N2-020444	9.4	CR	Mapping from CAP to ISUP of parameters of ICA and CWA	Vodafone	CAMEL4		1C	29.078	Rel-5		Approved
N2-020446	9.9	CR	Charging Notification Feature at GMSC for NC and NP cases	CDOT	CAMEL4		C	23.078	Rel-5	V5DD5	Approved
N2-020449	9.4	CR	Disconnect Leg during call establishment	Alcatel	CAMEL4		F	23.078	Rel-5	5D. 13.5	Approved
N2-020450	9.2	CR	(Revised N2-020376) CAMEL4 CSIs in ATSI operation	Nokia	CAMEL4		F	23.078	Rel-5	5d.13.0	Approved
N2-020454	9.5	CR	Collection of DTMF digits	Vodafone	CAMEL4		F	23.078	Rel-5	5D.13.5	Approved
N2-020455	9.2	CR	Correction to the usage of CAP Module versions	Ericsson	CAMEL4		F	29.078	Rel-5	D5.7.2	Approved
N2-020456	9.4	CR	Disconnect Leg operation for gsmSCF-initiated call leg	Vodafone	CAMEL4		1B	23.078	Rel-5		Approved

Annex C List of Documents

TDoc #	Agenda Item	Type	Title	Source	WI	CR #	Rev	Cat	Spec	Rel	Version	Decision
N2-020291	1	Agenda	Agenda	CN2 Chairman								Approved
N2-020292	2	Agenda	Allocation of documents to agenda item	CN2 Chairman								Noted
N2-020293	3.1	Report	CN2#22 Draft meeting report	MCC								Approved
N2-020294	4	LS IN	Reply to LS "Restoration of R'96 Any Time Interrogation functionality"	RAN3								Noted
N2-020295	4	LS IN	LS on "Prefix allocation for IPv6 stateless address autoconfiguration"	SA2								Noted
N2-020296	4	LS IN	LS "Annex of Information Tables (A.1, A.2, A.3 and A.4) in 22.078"	SA1								Noted
N2-020297	9.6	CR	Si Interface Information Flows	Lucent Technologies	IMS-CAMEL			F	23.278	Rel-5	1.1.0	Revised to N2-020408
N2-020298	9.6	CR	CAP Information Flows for IM CAMEL Services	Lucent Technologies	IMS-CAMEL			F	23.278	Rel-5	1.1.0	Noted
N2-020299	9.6	CR	Correction of SDLs for CAMEL IMCN Register/Deregister	Lucent Technologies	IMS-CAMEL			F	23.278	Rel-5	1.1.0	Revised to N4-020411
N2-020300	9.6	CR	Various Misc corrections/modifications to TS 23.278	Lucent Technologies	IMS-CAMEL			F	23.278	Rel-5	1.1.0	Postponed to CN2#24

N2-020301	9.5	CR	Collection of DTMF digits	Vodafone	CAMEL4			F	23.078	Rel-5	5D.13.5	Revised to N4-020445
N2-020302	9.4	CR	Use of Abort and of Application begin and end between the CS_gsmSSF, CSA_gsmSSF and gsmSCF	Alcatel, Vodafone	CAMEL4			F	23.078	Rel-5	5D.13.5	Approved
N2-020303	3.2	REPORT	Report of TSG-CN2 CAMEL4 Editor's Meeting	CN2 Vice Chairman								Noted
N2-020304	9.2	INFO	23.078 - General Drafting Principles	CN2 Vice Chairman								Noted
N2-020305	9.2	INFO	29.078 - General Drafting Principles	CN2 Vice Chairman								Noted
N2-020306	9.2	DISC	Editor's Meeting - Open Issues	CN2 Vice Chairman								Noted
N2-020307	9.4	DISC	CPH: Open Issues & Decisions	Vodafone	CAMEL4							Revised to N4-020440
N2-020308	9.4	CR	Moving to MidCall DP after CPH operation	Vodafone	CAMEL4			2C	23.078	Rel-5		Approved
N2-020309	9.4	CR	Moving to MidCall DP after CPH operation	Vodafone	CAMEL4			2D	29.078	Rel-5		Revised to N4-020443
N2-020310	9.4	CR	Introduction of Disconnect Leg ack	Vodafone	CAMEL4			1B	23.078	Rel-5		Approved
N2-020311	9.4	CR	Disconnect Leg operation for gsmSCF-initiated call leg	Vodafone	CAMEL4			1B	23.078	Rel-5		Revised to N4-020456

N2-020312	9.4	CR	Handling of UUS and CCBS for reconnect on Leg2 disconnect	Vodafone	CAMEL4			1F	23.078	Rel-5		Approved
N2-020313	9.4	CR	Contents of CWA at DP3	Vodafone	CAMEL4			1F	23.078	Rel-5		Approved
N2-020314	9.4	CR	Mapping from CAP to ISUP of parameters of ICA and CWA	Vodafone	CAMEL4			1C	29.078	Rel-5		Revised to N4-020444
N2-020315	9.5	CR	Handling of MidCall DP	Vodafone	CAMEL4			1B	23.078	Rel-5		Withdrawn
N2-020316	9.2	CR	Correction to the usage of CAP Module versions	Ericsson	CAMEL4			F	29.078	Rel-5	D5.7.2	Revised to N4-020455
N2-020317	9.2	CR	Introduction of "Unknown CS ID" CAP Operation Error	Ericsson	CAMEL4			F	29.078	Rel-5	D5.7.2	Approved
N2-020318	9.2	CR	Clean-up of section 10	Ericsson	CAMEL4			F	29.078	Rel-5	D5.7.2	Postponed to CN2#24
N2-020319	9.6	WID	Work Item Description for the Support of CAMEL by the IMS	Lucent Technologies	IMS-CAMEL					Rel-5		Revised to N4-020405
N2-020320	9.7	CR	Introduction of Called Party Number for InitialDPSMS for MT-SMS	Ericsson	CAMEL4			F	29.078	Rel-5	d5.7.2	Postponed to CN2#24
N2-020321	9.7	CR	Correction to mapping between MAP and CAP for MT-SMS	Ericsson	CAMEL4			F	29.078	Rel-5	d5.7.2	Approved
N2-020322	9.7	CR	Introduction of Called Party Number for InitialDPSMS for MT-SMS	Ericsson	CAMEL4			F	23.078	Rel-5	d5.D.3	Postponed to CN2#24
N2-020323	9.15	CR	Transferring the MS classmark & IMEI to the gsmSCF	Vodafone	CAMEL4			B	29.002	Rel-5	5.1.0	Revised to N4-020414
N2-020324	9.15	CR	Transferring the MS classmark & IMEI to the gsmSCF	Vodafone	CAMEL4			B	29.078	Rel-5	D5.7.2	Revised to N4-020417

N2-020325	9.15	DISC	Open issues on the transfer of IMEI & classmark information to the gsmSCF	Vodafone								Noted
N2-020326	3.2	Report	CN#15 Draft Status Report	MCC								Noted
N2-020327	9.6	CR	Stage 3 CAP specification for CAMEL/IMS	Lucent Technologies	IMS-CAMEL			(new)	Rel-5			Postponed to CN2#24
N2-020328	9.4	CR	Text for Procedure CAMEL_ICh_CF_LEG2_MSC	Vodafone	CAMEL4			F	23.078	Rel-5	5D.13.5	Approved
N2-020329	9.4	CR	Correction to handling of Continue and CWA	Vodafone	CAMEL4			F	23.078	Rel-5	5D.13.5	Approved
N2-020330	9.4	CR	Use of Split Leg to create CSID1	Vodafone	CAMEL4			F	29.078	Rel-5	d5.7.2	Postponed to CN2#24
N2-020331	9.4	CR	Leg Status update for leg 1 due to change in leg 2.	Alcatel	CAMEL4			F	23.078	Rel-5	5D.13.5	Withdrawn
N2-020332	9.4	CR	Disconnect Leg during call establishment	Alcatel	CAMEL4			F	23.078	Rel-5	5D.13.5	Revised to N4-020449
N2-020333	9.4	CR	Use of Disconnect Leg procedure	Alcatel	CAMEL4			F	29.078	Rel-5	d5.7.2	Postponed to CN2#24
N2-020334	9.2	CR	Detection points during Waiting for Instruction state	Alcatel	CAMEL4			F	23.078	Rel-5	5D.13.5	Withdrawn
N2-020335	9.4	CR	Alignment of HLR and SCF on Provide Roaming Number	Alcatel	CAMEL4			F	23.078	Rel-5	5D.13.5	Approved
N2-020336	9.11	CR	Corrections to the handling of Any Time Interrogation and Provide Subscriber Info	Vodafone	CAMEL4			F	29.002	Rel-5	5.1.0	Revised to N4-020413
N2-020337	5.2	WID	Proposed WI: MBMS	H3G	MBMS				Rel-5			Noted

N2-020338	9.2	CR	Clarification on requirements for presence of IMEISV and MS classmark	Vodafone	CAMEL4			D	23.078	Rel-5	5D.13.5	Approved
N2-020339	9.4	CR	Update of CSA_gsmSSF and Update_Signalling	Vodafone	CAMEL4			F	23.078	Rel-5	5D.13.5	Approved
N2-020340	9.4	CR	Alerting DP in Waiting_For_Instructions	Vodafone	CAMEL4			F	23.078	Rel-5	5D.13.5	Approved
N2-020341	9.3	CR	Clean-up and correction of Location Information tables	Ericsson	CAMEL4			F	23.078	Rel-5	d5.D.3	Postponed to CN2#24
N2-020342	9.9	DISC	Open Issues for Charging Notification Feature	CDOT	CAMEL4							Noted
N2-020343	9.9	CR	Interaction between SCI and Charging Notification Feature	CDOT	CAMEL4			C	23.078	Rel-5	V5DD5	Noted
N2-020344	9.9	CR	Charging Notification Feature at GMSC for basic MT call	CDOT	CAMEL4			C	23.078	Rel-5	V5DD5	Revised to N4-020446
N2-020345	9.9	CR	Charging Notification Feature at GMSC for NC and NP cases	CDOT	CAMEL4			C	23.078	Rel-5	V5DD5	Revised to N4-020446
N2-020346	9.9	CR	Charging Notification Feature at GMSC for forwarding case	CDOT	CAMEL4			C	23.078	Rel-5	V5DD5	Withdrawn
N2-020347	9.9	CR	Optionality of Charging Notification Feature through Initial DP	CDOT	CAMEL4			C	23.078	Rel-5	V5DD5	Noted
N2-020348	9.9	CR	Optionality of Charging Notification Feature through Initial DP	CDOT	CAMEL4			C	29.078	Rel-5	V572	Noted
N2-020349	9.2	CR	Collective CR	Alcatel	CAMEL phase4			B	23.008	Rel-5	4.1.0	Noted

N2-020350	9.2	CR	Correction of criteria table	Alcatel	CAMEL phase4			B	23.008	Rel-5	Collective CR	Revised to N4-020407
N2-020351	9.15	CR	PDP context active state	Alcatel	CAMEL phase4			D	29.002	Rel-5	5.1.0	Revised to N4-020418
N2-020352	9.15	CR	Change PS-connected to PS-PDPactive	Alcatel	CAMEL phase4			D	23.078	Rel-5	5.D.5	Revised to N4-020420
N2-020353	7.1	CR	Correction of field cause in IDP for busy TDP	Alcatel	CAMEL phase3	245		F	29.078	R99	3.11.0	Rejected
N2-020354	8	CR	Correction of field cause in IDP for busy TDP	Alcatel	CAMEL phase3	246		A	29.078	Rel-4	4.4.0	Rejected
N2-020355	7.3	CR	Correction of EventReportGPRS parameter QOS	Alcatel	CAMEL phase3	395		F	23.078	R99	3.12.0	Revised to N4-020434
N2-020356	8	CR	Correction of EventReportGPRS parameter QOS	Alcatel	CAMEL phase3	396		A	23.078	Rel-4	4.4.0	Revised to N4-020435
N2-020357	7.3	CR	Correction concerning the APN selection in SGSN	Alcatel	CAMEL phase3			F	23.060	R99	3.10.0	Rejected
N2-020358	8	CR	Correction concerning the APN selection in SGSN	Alcatel	CAMEL phase4			A	23.060	Rel-4	4.3.0	Rejected

N2-020359	9.2	CR	Correction concerning the APN selection in SGSN	Alcatel	CAMEL phase4			A	23.060	Rel-5	5.0.0	Rejected
N2-020360	7.3	CR	Alignment of 29.078 with 23.078 for CancelGPRS	Alcatel	CAMEL phase3	247		F	29.078	R99	3.11.0	Postponed to CN2#24
N2-020361	8	CR	Alignment of 29.078 with 23.078 for CancelGPRS	Alcatel	CAMEL phase4	248		A	29.078	Rel-4	4.4.0	Postponed to CN2#24
N2-020362	9.16	DISC	Splitting of CAMEL phase 4	Alcatel	CAMEL phase4							Noted
N2-020363	9.16	CR	Splitting of CAMEL phase 4	Alcatel	CAMEL phase4			B	23.078	Rel-5	5.D.13.5	Revised to N4-020421
N2-020364	9.16	CR	Splitting of CAMEL phase 4	Alcatel	CAMEL phase4			B	29.002	Rel-5	Collective CR	Revised to N4-020422
N2-020365	9.16	CR	Splitting of CAMEL phase 4	Alcatel	CAMEL phase4			B	29.078	Rel-5	D572	Revised to N4-020423
N2-020366	9.16	CR	Splitting of CAMEL phase 4	Alcatel	CAMEL phase4			B	23.008	Rel-5	4.1.0	Revised to N4-020424
N2-020367	9.2	CR	Clarification of GPRS relationships	Ericsson	CAMEL4			F	23.078	Rel-5	d5.D.3	Postponed to CN2#24

N2-020368	9.2	CR	Corrections to GPRS DP arming rules for scenario #1	Ericsson	CAMEL4			F	23.078	Rel-5	d5.D.3	Postponed to CN2#24
N2-020369	9.9	DISC	Optionality of Charging notifications through InitialDP	CDOT	CAMEL4							Noted
N2-020370	9.9	DISC	Charging notifications in various call scenarios	CDOT	CAMEL4							Noted
N2-020371	9.9	CR	Charging notifications in various call scenarios	CDOT	CAMEL4			C	23.078	Rel-5	V5DD5	Postponed to CN2#24
N2-020372	9.2	CR	GPRS relationship rules for procedure descriptions	Ericsson	CAMEL4			F	29.078	Rel-5	d5.7.2	Postponed to CN2#24
N2-020373	9.2	CR	Correction to CAP V4 AC version	Ericsson	CAMEL4			F	29.078	Rel-5	d5.7.2	Postponed to CN2#24
N2-020374	7.3	CR	Misalignment in CAP3-CancelGPRS(session/PDPid) operation	Nokia	CAMEL3	249		F	29.078	R99	3.11.0	Postponed to CN2#24
N2-020375	7.2	CR	Clarifications on CAMEL3 ATM/ATM-ack	Nokia	CAMEL3	397		F	23.078	R99	3.12.0	Revised to N4-020442
N2-020376	9.2	CR	CAMEL4 CSIs in ATSI operation	Nokia	CAMEL4			F	23.078	Rel-5	5d.13.0	Revised to N4-020412
N2-020377	6.2	CR	Clarification in the case multiple RRBs are sent for a DP	Siemens AG	CAMEL2	A170		F	03.78	R97	6.A.0	Revised to N4-020431
N2-020378	6.2	CR	Clarification in the case multiple RRBs are sent for a DP	Siemens AG	CAMEL2	A171		A	03.78	R98	7.7.0	Revised to N4-020451
N2-020379	6.2	CR	Clarification in the case multiple RRBs are sent for a DP	Siemens AG	CAMEL2	398		A	23.078	R99	3.C.0	Revised to N4-020452

N2-020380	6.2	CR	Clarification in the case multiple RRBs are sent for a DP	Siemens AG	CAMEL2	399		A	23.078	Rel-4	4.4.0	Revised to N4-020453
N2-020381	6.2	CR	Clarification in the case multiple RRBs are sent for a DP	Siemens AG	CAMEL2	A077		F	09.78	R97	6.5.0	Withdrawn
N2-020382	6.2	CR	Clarification in the case multiple RRBs are sent for a DP	Siemens AG	CAMEL2	A078		A	09.78	R98	7.1.0	Withdrawn
N2-020383	6.2	CR	Clarification in the case multiple RRBs are sent for a DP	Siemens AG	CAMEL2	250		A	29.078	R99	3.B.0	Withdrawn
N2-020384	6.2	CR	Clarification in the case multiple RRBs are sent for a DP	Siemens AG	CAMEL2	251		A	29.078	Rel-4	4.4.0	Withdrawn
N2-020385	9.2	TS/INFO	Draft 23.078 Rel-5 V5D.D.5	Siemens/Rapporteur	CAMEL4							Noted
N2-020386	9.2	CR	Scope of CAMEL4: Alignment to the current status	Siemens AG	CAMEL4			F	23.078	Rel-5	5D.D.5	Approved
N2-020387	9.2	CR	Removal of 3GPP TS 22.002 from the reference section	Siemens AG	CAMEL4			D	23.078	Rel-5	5D.D.5	Approved
N2-020388	9.2	CR	Route_Select_Failure shall not be disarmed implicitly when DP O_Term_Seized is encountered	Siemens AG	CAMEL4			F	23.078	Rel-5	5D.C.1	Revised to N4-020438
N2-020389	9.2	CR	Additional signal in CAMEL_OCH_MSC_ALERTING	Siemens AG	CAMEL4			F	23.078	Rel-5	5D.C.1	Revised to N4-020439
N2-020390	9.12	CR	MM-GPRS not reported by the old SGSN	Siemens AG	CAMEL4			F	23.078	Rel-5	5D.C.1	Approved
N2-020391	9.14	CR	Change request type in LOCATION REPORTING CONTROL	Siemens AG	CAMEL4			F	23.078	Rel-5	5D.D.5	Approved

N2-020404	4	CR	Remove the tables	Alcatel				F	22.078	Rel-5		Revised to N4-020448
N2-020405	9.6	WID	(Revision of N2-020319) Work Item Description for the Support of CAMEL by the IMS	Lucent Technologies	IMS-CAMEL					Rel-5		Revised to N4-020425
N2-020406	9.2	TS/INFO	The latest draft of 23.278-110 Rel-5	Lucent Technologies	IMS-CAMEL					Rel-5		Noted
N2-020407	9.2	CR	Correction of criteria table	Alcatel	CAMEL phase4			B	23.008	Rel-5	CR	Endorsed by CN2
N2-020408	9.6	CR	(revised N2-020297) Si Interface Information Flows	Lucent Technologies	IMS-CAMEL			F	23.278	Rel-5	1.1.0	Revised to N4-020426
N2-020409	9.6	CR	(Revised N2-020392) Subscriber Information Management in IMS	Siemens AG	CAMEL4			B	23.278	Rel-5	1.1.0	Noted
N2-020410	9.6	Output LS	Output LS on Subscriber Information Management in IMS to:SA2, cc: CN4	Siemens AG								Revised to N4-020432
N2-020411	9.6	CR	(Revised N2-020299) Correction of SDLs for CAMEL IMCN Register/Deregister	Lucent Technologies	IMS-CAMEL			F	23.278	Rel-5	1.1.0	Revised to N4-020428
N2-020412	9.2	CR	(Revised N2-020376) CAMEL4 CSIs in ATSI operation	Nokia	CAMEL4			F	23.078	Rel-5	5d.13.0	Revised to N4-020450
N2-020413	9.4	CR	Use of Disconnect Leg procedure	Alcatel	CAMEL4			F	29.078	Rel-5	d5.7.2	Endorsed by CN2
N2-020414	9.15	CR	(Revised to N2-020323) Transferring the MS classmark & IMEI to the gsmSCF	Vodafone	CAMEL4			B	29.002	Rel-5	5.1.0	Endorsed by CN2

N2-020415	4	Input LS	"IP version inter-working on the transport plane"	SA5								Noted
N2-020416	9.6	CR	(Revised N2-020396) IM-SSF Notification of HSS Update of CSI	Lucent Technologies	IMS-CAMEL		F	TS 23.278	Rel-5	V1.1.0		Revised to N4-020427
N2-020417	9.15	CR	Transferring the MS classmark & IMEI to the gsmSCF	Vodafone	CAMEL4		B	29.078	Rel-5	D5.7.2		Approved
N2-020418	9.15	CR	PDP context active state	Alcatel	CAMEL phase4		D	29.002	Rel-5	5.1.0		Revised to N4-020430
N2-020419	9.15	CR	PDP context active state	Alcatel	CAMEL phase4		D	22.078	Rel-5			Endorsed by CN2
N2-020420	9.15	CR	Change PS-connected to PS-PDPactive	Alcatel	CAMEL phase4		D	23.078	Rel-5	5.D.5		Revised to N4-020429
N2-020421	9.16	CR	(Revised N2-020363) Splitting of CAMEL phase 4	Alcatel	CAMEL phase4		B	23.078	Rel-5	5.D.13.5		Postponed to CN2#24
N2-020422	9.16	CR	(Revised N2-020364) Splitting of CAMEL phase 4	Alcatel	CAMEL phase4		B	29.002	Rel-5	5.1.0		Revised to N4-020433
N2-020423	9.16	CR	(Revised N2-020365) Splitting of CAMEL phase 4	Alcatel	CAMEL phase4		B	29.078	Rel-5	D572		Postponed to CN2#24
N2-020424	9.16	CR	(Revised N2-020366) Splitting of CAMEL phase 4	Alcatel	CAMEL phase4		B	23.008	Rel-5	4.1.0		Postponed to CN2#24

N2-020425	9.6	WID	(Revision of N2-020319) Work Item Description for the Support of CAMEL by the IMS	Lucent Technologies	IMS-CAMEL					Rel-5		Endorsed by CN2
N2-020426	9.6	CR	(revised N2-020408) Si Interface Information Flows	Lucent Technologies	IMS-CAMEL			F	23.278	Rel-5	1.1.0	Noted
N2-020427	9.6	CR	(Revised N2-020416) IM-SSF Notification of HSS Update of CSI	Lucent Technologies	IMS-CAMEL			F	TS 23.278	Rel-5	V1.1.0	Noted
N2-020428	9.6	CR	(Revised N2-020411) Correction of SDLs for CAMEL IMCN Register/Deregister	Lucent Technologies	IMS-CAMEL			F	23.278	Rel-5	1.1.0	Noted
N2-020429	9.15	CR	(Revised N2-020420) Change PS-connected to PS- PDPactive	Alcatel	CAMEL phase4			D	23.078	Rel-5	5.D.5	Approved
N2-020430	9.15	CR	(Revised N2-020418) PDP context active state	Alcatel	CAMEL phase4			D	29.002	Rel-5	5.1.0	Endorsed by CN2
N2-020431	6.2	CR	(Revised N2-020377) Clarification in the case multiple RRBs are sent for a DP	Siemens AG	CAMEL2	A170		1F	03.78	R97	6.A.0	Revised to N4-020441
N2-020432	9.6	Output LS	Output LS on Subscriber Information Management in IMS to:SA2, cc: CN4	Siemens AG								Withdrawn
N2-020433	9.16	CR	(Revised N2-020422) Splitting of CAMEL phase 4	Alcatel	CAMEL phase4			B	29.002	Rel-5	5.1.0	Postponed to CN2#24

N2-020434	7.3	CR	(Revised N2-020355) Correction of EventReportGPRS parameter QOS	Alcatel	CAMEL phase3	395	1F	23.078	R99	3.12.0	Approved
N2-020435	8	CR	Correction of EventReportGPRS parameter QOS	Alcatel	CAMEL phase3	396	1A	23.078	Rel-4	4.4.0	Approved
N2-020436	7.3	CR	Correction to handling when Delta is greater than received maximum threshold in an AC GPRS	Vodafone	CAMEL3	400	1F	23.078	R99	3.12.0	Postponed to CN2#24
N2-020437	8	CR	Correction of field cause in IDP for busy TDP	Alcatel	CAMEL phase4		A	29.078	Rel-5	D572	Approved
N2-020438	9.2	CR	(N2-020388 revision) Route_Select_Failure shall not be disarmed implicitly when DP O_Term_Seized is encountered	Siemens AG	CAMEL4		F	23.078	Rel-5	5D.C.1	Approved
N2-020439	9.2	CR	(N2-020389 revision) Additional signal in CAMEL_OCH_MSC_ALERTING	Siemens AG	CAMEL4		F	23.078	Rel-5	5D.C.1	Postponed to CN2#24
N2-020440	9.4	DISC	(N2-020307 revision) CPH: Open Issues & Decisions	Vodafone	CAMEL4						Noted
N2-020441	6.2	CR	(Revised N2-020377) Clarification in the case multiple RRBs are sent for a DP	Siemens AG	CAMEL2	A170	2F	03.78	R97	6.A.0	Approved
N2-020442	7.2	CR	Clarifications on CAMEL3 ATM/ATM-ack	Nokia	CAMEL3	397	1F	23.078	R99	3.12.0	Postponed to CN2#24
N2-020443	9.4	CR	Moving to MidCall DP after CPH operation	Vodafone	CAMEL4		2D	29.078	Rel-5		Approved

N2-020444	9.4	CR	Mapping from CAP to ISUP of parameters of ICA and CWA	Vodafone	CAMEL4			1C	29.078	Rel-5		Approved
N2-020445	9.5	CR	Collection of DTMF digits	Vodafone	CAMEL4			F	23.078	Rel-5	5D.13.5	Revised to N4-020454
N2-020446	9.9	CR	Charging Notification Feature at GMSC for NC and NP cases	CDOT	CAMEL4			C	23.078	Rel-5	V5DD5	Approved
N2-020447	4	Output LS	LS to SA1	Alcatel								Approved
N2-020448	4	CR	Remove the tables	Alcatel				F	22.078	Rel-5		Endorsed by CN2
N2-020449	9.4	CR	Disconnect Leg during call establishment	Alcatel	CAMEL4			F	23.078	Rel-5	5D. 13.5	Approved
N2-020450	9.2	CR	(Revised N2-020376) CAMEL4 CSIs in ATSI operation	Nokia	CAMEL4			F	23.078	Rel-5	5d.13.0	Approved
N2-020451	6.2	CR	Clarification in the case multiple RRBs are sent for a DP	Siemens AG	CAMEL2	A171		1A	03.78	R98	7.7.0	Approved
N2-020452	6.2	CR	Clarification in the case multiple RRBs are sent for a DP	Siemens AG	CAMEL2	398		1A	23.078	R99	3.C.0	Approved
N2-020453	6.2	CR	Clarification in the case multiple RRBs are sent for a DP	Siemens AG	CAMEL2	399		1A	23.078	Rel-4	4.4.0	Approved
N2-020454	9.5	CR	Collection of DTMF digits	Vodafone	CAMEL4			F	23.078	Rel-5	5D.13.5	Approved
N2-020455	9.2	CR	Correction to the usage of CAP Module versions	Ericsson	CAMEL4			F	29.078	Rel-5	D5.7.2	Approved
N2-020456	9.4	CR	Disconnect Leg operation for gsmSCF-initiated call leg	Vodafone	CAMEL4			1B	23.078	Rel-5		Approved