

**3GPP TSG CN Plenary Meeting #20
4th - 6th June 2003. HÄMEENLINNA, Finland.**

NP-030184

Source: MCC
Title: CN2 Meeting reports since CN#19
Agenda item: 7.1
Document for: Information

Introduction:

This document contains CN2 Adhoc Meeting Report on Enhanced Dialed Services for CAMEL and Draft CN2#29 Meeting Report which are forwarded to CN#19 for information.

**Meeting Report, version 1.0.0
TSG CN WG2 Ad Hoc meeting on
Enhancement of dialled services for CAMEL**

**Sophia Antipolis, France
1 April – 2 April, 2003**

Chairman: Keijo Palviainen (Nokia)
MCC support: Andrijana Jurisic(ETSI)
Host: ETSI

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/Ad_Hocs/CN2_EDS_CAMEL/Docs

1 Opening of the meeting and approval of the agenda

N2-030161 : CN2 chairman, Title: Proposed meeting agenda

The scope of the meeting is Enhanced dialled services for CAMEL in Release 6 (EDCAMEL). CN2 has given a mandate to AdHoc meeting to agree principles and approve CRs for CN2 stage 2 specifications and endorse CRs to CN4 specifications.

Discussion:

Conclusion: approved

2 Allocation of documents to agenda items

N2-030171: CN2 chairman, Title: Allocation of documents to agenda items

Discussion:

Conclusion: noted

3 Input Liaison statements

No LSs related to Enhanced Dialled Services received.

4 Release 6 Enhanced Dialled Services

N2-030162: Source: Samsung Electronics, SK Telecom, Type: Disc, Title: Open Issues for enhanced dialled service in NP/NC Call

Discussion: “NP/NC calls”, as stated in the title and question in the document, cannot be treated in a same way. We need to consider both methods individually (NP leg and NC call).

Question1:

T-mobile: Is it allowed to use ICA operation in EDS dialogue according to stage 1? There is no restriction at the moment, therefore it should be allowed.

Alcatel: It is not explicitly prohibited; therefore it is allowed if there is no existing dialogue. The same logic should be used for DP3.

- **Decision1:** ICA and CPH operations are allowed in EDS dialogue. This applies both to N-CSI and D-CSI.

Question2: How can we interpret the auxiliary “should” or “shall” in NP/NC calls described in 22.078 and 29.078 specifications?

Summary: Chapter 8.1 in 22.078 specification describes the requirement that “If the CSE sends a request to initiate a new call (leg) the events relating to unsuccessful call establishment and answer *should* be armed by the CSE to maintain a control relationship.” Chapter 11.21.1 in 29.078 specification describes the requirement that “The gsmSCF *shall* subsequently arm O_Answer as an EDP-R and the call failure events as EDP-Rs and/or EDP-Ns ~”

This means that in case of ICA calls, gsmSCF *should* arm the answer and unsuccessful DPs (DP_O_Busy, DP_O_No_Answer, DP_Route_Select_Failure) and then send Continue/CWA operation and maintain control/monitor relationship with CCF to detect call events.

When D-CSI is triggered, CS_gsmSSF triggered by D-CSI cannot have control/monitor relationship with the call created by ICA operation since control/monitor relationship already exists, and the same as N-CSI.

According to current Ts 22.078 and TS 29.078, EDS cannot be allowed in ICA (NP/NC) calls. If CN2 decides to allow enhanced dialled services in NC or NP, a change to descriptions of ICA is needed in TS 22.078 and TS 29.078.

- **Decision2:** “Should” is a recommendation. It is not necessary to change stage 1. Stage 3 (TS 29.078) mandates the DP arming for NC call but it is a bit unclear whether this mandate applies to both NC and NP case. CR to TS 29.078 is needed (section 11.21.1.) to cover NP case as well.

Question3: Is it possible to apply EDS in ICA calls?

In document N2-030058, decision 14 says that Control/monitoring relationships exist per call segment.

Decision3: EDS dialogue is not possible for NP or NC calls because of decision no. 14 in N2-030058 (CN2#28).

- **For further study:** Reconnect after answer is the exceptional case that has to be studied later.

Conclusion: noted

N2-030163: Source: Samsung Electronics, SK Telecom, Type: Disc, Title: SDL modelling for enhanced dialled service in NP/NC Call

Discussion:

Conclusion: revised to N2-030170

N2-030170: Source: Samsung Electronics, SK Telecom, Type: Disc, Title: SDL modelling for enhanced dialled service in NP/NC Call

Discussion: Basic call case is considered. Is it important to know whether it is control or monitoring relationship for the decision whether EDS is allowed?

Conclusion: EDS is not allowed if the existing relationship is monitoring.

Alcatel is proposing different meaning for the CAP_dialogue variable. The event when the variable CAP_dialogue is true or false should be made simpler.

Conclusion: noted

N2-030164: TS 23.078, Rel-5, Source: Samsung Electronics, SK Telecom, Type: CR, CR#547, Title: Implementation of enhanced dialled service

Summary: The requirement of the enhanced dialled service is to give the identical capability to gsmSCF triggered at DP3 as that triggered at DP2, if there is no existing relationship with any gsmSCF.

To maintain and indicate if a relationship with gsmSCF exists, a new variable (CAP_Dialogue) is introduced. The initial value of CAP_Dialogue shall be set to “FALSE”.

Since the purpose of this variable is to give the exact status of the existence of ongoing relationship with gsmSCF to CS_gsmSSF and gsmSCF triggered by dialled services, the variable shall be changed at CS_gsmSSF based on the existence of a relationship with gsmSCF at the time of relaying one of operations (Connect, Continue or ContinueWithArgument) received from gsmSCF to CCF and just before entering the procedure for Analyse_Information.

Discussion: On page 50 the place of sending “Connect” is changed.

Alcatel: On page 63 CAP_Dialogue is marked as “C” what means “if available “ What is the meaning of “being available” for CAP_Dialogue? The variable is either “true” or “false” and even if it is “false”, it is available.

If there is no EDS capability, then we do not need to include this parameter. Condition should be “S” and the condition is “present if EDS is supported”. Applicable for DP3 only.

Support for EDS is in “Offered CAMEL4 functionalities” and separate for N-CSI and D-CSI (concluded at CN2#28, N2-030038 decision 1).

Nokia: We should indicate to SCP whether we support EDS in this particular call. From service point of view, T-Mobile likes the idea, but it might be difficult for MSC if we make a difference between N-CSI and D-CSI. There is a view that SCP knows based on service key whether service was triggered based on D-CSI or N-CSI.

Do we send this parameter always when we trigger Analysed_information? If MSC does not support EDS, this parameter would not be sent. Condition could be: Once EDS is supported this parameter should be present.

Alcatel proposal is to show CAP_Dialogue and Offered CAMEL4 functionalities parameters in one contribution so that the whole picture can be seen.

On page 54 the sequence of signals Int_Leg_Status_Report and CWA shall be checked off line.

For the SDL modelling we have to select between the Alcatel proposal and SK Telecom proposal. Nokia and Ericsson prefer Alcatel proposal in N2-030169 since it introduces minimum SDL changes.

Conclusion: noted, the content will be included in N2-030172, SDL part is ignored

N2-030166: TS 23.078, Source: Samsung Electronics, SK Telecom, Type: CR, CR#549, Title: Implementation of enhanced dialled service in NP/NC Call

Discussion:

Conclusion: rejected

N2-030167: TS 23.018, Source: Samsung Electronics, SK Telecom, Type: CR, CR#549, Title: Implementation of enhanced dialled service in NP/NC Call

Discussion:

Conclusion: rejected

N2-030169: TS 23.078, Source: Alcatel, Type: CR, CR#551, Title: Enhanced CS_gsmSSF for Enhanced Dialled Services

Summary: Comparing 22.078 sub clauses "5.3.1 Procedure when dialled digits have been collected" and "5.3.2 Procedure for subscribed dialled services" reveals that the capabilities for "subscribed dialled services" in the case "If no relationship exists with a CSE for the call" are quite the same as for DP2 procedures. For that reason it is proposed to include a check in the CS_gsmSSF procedures and to follow for subscribed dialled services either the branch of the old CS_gsmSSF DP3 behaviour or the branch already available for the CS_gsmSSF behaviour already used at DP2 and also other DPs.

This CR Includes a decision box asking whether or not a dialogue exists currently for the same leg and branching according to the answer to either the old DP3 behaviour or to continue the CS_gsmSSF behaviour as for DP2.

Discussion: How do we know if there is any other dialogue opened or not according to this CR?

Why the number of outgoing legs is checked? In order to avoid complexity. The limitation for more than 1 outgoing leg may need a Stage 1 update.

Nokia supports Alcatel's proposal. Nokia prefers to maintain collective CR having all the changes. Collective CR would not be sent to June plenary for approval. The meeting agrees with this proposal. CN2 chairman will maintain collective CR for EDS for TS 23.078.

CN2 decided to take the approach for SDL modelling as proposed in this CR (will be incorporated in collective CR).

Conclusion: noted, the principle is approved and the content will be incorporated in the collective CR for May meeting

N2-030165: TS 23.078, Source: Samsung Electronics, SK Telecom, Type: CR, CR#548, Title: Handling of partial implementation for enhanced dialled service

Discussion:

Conclusion: noted, content included in N2-030172

N2-030168: TS 23.078, Source: Alcatel, Type: CR, CR#550, Title: Enhancements for the Partial Implementation for Enhanced Dialled Services

Discussion: The description of the parameter Ongoing parameter (on page 8) contains 2 different meanings.

What the parameter "Ongoing dialogue" is trying to bring: whether there is ongoing dialogue or whether EDS is allowed?

Samsung: Ongoing dialogue is related to partial implementation itself. EDS is not allowed if there is more than one outgoing leg (there is no explicit requirement in stage 1).

Conclusions:

- We will introduce single parameter in initial DP, called “EDS allowed”, which tells SCP directly whether EDS is allowed or not? Conditions are:
 - TDP is DP3
 - EDS is supported for this type of call
 - There is no more than 1 outgoing leg
 - There shall be no other CAP dialogue for this particular leg.
- Offered CAMEL4 functionalities parameter is changed to indicate Enhanced Subscribed Dialed Services and Enhanced Serving Network Dialed Services support (separate functionalities).

Conclusion: *noted, content is included in N2-030172*

N2-030172: TS 23.078, Source: Alcatel, Type: CR, CR#552, Title: Enhancements for the Dialed services and Partial Implementation

Discussion: The change in section 1.1.2 removed the SCI because it was already available in CAMEL phase 3, but if we leave this change it could be read that SCI is not allowed.

Maybe we should add a paragraph which lists EDS capabilities in addition to CAMEL phase 3 Dialed service capabilities (list of added operations and armed EDPs)? The text included here will be moved to separated paragraph.

If we offer ICA, ICA is also part of EDS. Ones Offered CAMEL 4 functionalities are offered they are also part of EDS.

Conclusions:

1. The Offered CAMEL 4 functionalities apply also to the Enhanced Dialed Services.
2. We remove “CSE” from all the places.
3. In information table, “S” is removed in NP and NC column of “Enhanced dialed service allowed” information element; by this CR. “S” will be kept in the table for the time being.
4. Ericsson proposes to use parameter name “EDS allowed”. The meeting supports this; parameter name will be changed. EDS should be an abbreviation.
5. In the description of the parameter “EDS allowed” forth bullet will be changed in order to change “There is no other CAMEL dialogue active for the same leg” to “There is no other CAMEL dialogue active for the leg for which this IF is sent”.

Conclusion: *revised to N2-030173*

N2-030173: TS 23.078, Source: Alcatel, Type: CR, CR#552r1, Title: Enhancements for the Dialed services and Partial Implementation

Discussion: “Call gap” is already allowed in CAMEL 3 D-CSI service. “Cancel” operation is also already allowed in CAMEL3. Cancel (InvokeID) was allowed, now “Cancel (allOutstandingRequests) will be allowed.

EDS is used in plural or singular inconsistently. By now it was understood that Enhanced Dialed Services should be in plural, because it refers to possibility to have multiple services per subscriber (e.g. prepaid and VPN, therefore plural should be always according to T-Mobil and Nokia). According to Alcatel it should be singular when it refers either N-CSI or D-CSI and when it applies to both N-CSI and D-CSI it should be plural.

The meeting agreed that we should always use the plural for Enhanced dialed services.

Conclusion: *revised to N2-030174*

N2-030174: TS 23.078, Source: Alcatel, Type: CR, CR#552r2, Title: Enhancements for the Dialed services and Partial Implementation

Conclusion: *noted, the principle agreed and will be incorporated in the collective CR for Enhanced Dialed services*

N2-030175: TS 23.078, Source: Alcatel, Type: CR, CR#553, Title: Collective CR for Enhancements for the Dialed services and Partial Implementation

Discussion: CN2 Chairman will create the document, which list all the open issues for the next meeting. It should be part of CAMEL4 open issues list as well.

- TDP4 triggering will be added to open issues list. If we have TDP RouteSelectFailure (DP4) armed in O-CSI, shall that prevent EDS from triggering or usage of EDS. This is service prioritising issue.
- Shall the arming of the TDP4 (RouteSelectFailure) in O-CSI prevent EDS? No, that trigger detection point shall not prevent from triggering of EDS according to SK, Nokia and Alcatel and Ericsson.

Working assumption: Arming of TDP RouteSelectFailure shall not prevent Enhanced dialled services.

Conclusion: postponed to next meeting

Review of the N2 meeting schedule for 2002

TITLE	TYPE	DATES	LOCATION	CTRY
3GPPCN2#29	WG	19-23 May	San Diego	USA
3GPPCN2#30	WG	25-29 Aug	Sophia Antipolis	France
3GPPCN2#31	WG	27-31 Oct	TBD	China

11 Closing of the meeting (2nd of April, 12:00)

The output of the meeting is the Collective CR on Enhanced dialled services which will be handled in the CN2#29. The draft of the collective CR is sent to CN2 e-mail list for comments in N2-030175. Further changes needed for Enhanced dialled services will be added to the collective CR. The meeting has decided that the Collective CR for Enhanced dialled services will not be sent for approval to CN plenary in June.

The chairman thanked delegates for the successful meeting and the meeting was closed on 2nd of April, 12:00.

Annex A Attendees list

Name	Organization represented	Status, partner	Phone	Fax	e-mail
Member of 3GPP (ETSI)					
Mr. Christian Homann	ALCATEL S.A.	3GPPMEMBER (ETSI)	DE +49 711 821 45632		c.homann@alcatel.de
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Member of 3GPP (TTA)					
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Organisation partner representative (ETSI)					
Mrs. Andrijana Jurisic	Mobile Competence Centre		FR +33 4 92 94 43 09		andrijana.jurisic@etsi.fr

Annex B List of documents including status

Tdoc#	Type	Title	Source	CR	REV	Cat	Spec	Rel	Ver	Conclusion	
N2-030161	Agenda	Agenda	CN2 Chairman							noted	
N2-030162	DISC	Open Issues for enhanced dialled service in NP/NC Call	Samung Electronics , SK			C		Rel -6		noted	
N2-030163	DISC	SDL modeling for enhanced dialled service in NP/NC Call	Samung Electronics , SK			C		Rel -6		revised to N2-030170	
N2-030164	CR	Implementation of enhanced dialled service	Samung Electronics , SK	547		C	23.07 8	Rel -6	5.3.0	noted, content is taken into account in N2-030172	
N2-030165	CR	Handling of partial implementation for enhanced dialled service	Samung Electronics , SK	548		C	23.07 8	Rel -6	5.3.0	noted	
N2-030166	CR	Implementation of enhanced dialled service in NP/NC Call	Samung Electronics , SK	549		C	23.07 8	Rel -6	5.3.0	rejected	
N2-030167	CR	Implementation of enhanced dialled service	Samung Electronics , SK			C	23.01 8	Rel -5	5.6.0	rejected	
N2-030168	CR	Enhancements for the Partial Implementation for Enhanced Dialled Services	Alcatel	550		B	23.07 8	Rel-6	5.3.0	noted	
N2-030169	CR	Enhanced CS_gsmSSF for Enhanced Dialled Services	Alcatel	551		B	23.07 8	Rel-6	5.3.0	noted, content included in N2-030175	
N2-030170	DISC	SDL modeling for enhanced dialled service in NP/NC Call	Samung Electronics , SK			1 C		Rel -6		noted	
N2-030171	Agenda	Allocation of documents to agenda item	CN2 Chairman							approved	
N2-030172	CR	Enhancements for the Dialled Services and the Partial Implementation	Alcatel, SK, Samsung	552		B	23.07 8	Rel-6		revised to N2-030173	
N2-030173	CR	Enhancements for the Dialled Services and the Partial Implementation	Alcatel, SK, Samsung	552	1	B	23.07 8	Rel-6		revised to N2-030174	
N2-030174	CR	Enhancements for the Dialled Services and the Partial Implementation	Alcatel, SK, Samsung	552	2	B	23.07 8	Rel-6		noted, content included in N2-030175	
N2-030175		Collective CR for Release 6 Enhanced dialled services	Alcatel, SK, Samsung	553		B	23.07 8	Rel-6		postponed to next meeting	

DRAFT Meeting Report, version 1.0.0

TSG CN WG2#29

San Diego, USA

19 May – 25 May 2003

Chairman: Keijo Palviainen (Nokia)

MCC support: Andrijana Jurisic(ETSI)

Hosts: North American Friends of 3GPP

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

Documents could be found on the 3GPP-server:

ftp://ftp.3gpp.org/TSG_CN/WG2_camel/Plenary/TSGN2_29_SanDiego/Docs

1 Opening of the meeting and approval of the agenda

N2-030176: CN2 chairman, Title: Proposed meeting agenda

Discussion:

Conclusion: approved

2 Allocation of documents to agenda items

N2-030177: CN2 chairman, Title: Allocation of documents to agenda items

Discussion: Following documents are withdrawn: N2-030220, N2-030221, N2-030222, N2-030223 and N2-030224 from Ericsson. The Joint meeting document was provided by CN2 and/or CN4 vice chairman during the meeting.

Conclusion: noted

3 Reports

N2-030178: MCC, Title: CN2#28 Draft meeting report v1.2.0

Discussion:

Conclusion: approved

N2-030179: MCC, Title: Draft meeting report from CN2 AdHoc meeting on Enhanced Dialed Services

Discussion:

Conclusion: approved

N2-030180: MCC, Title: CN#19 Draft meeting report

Discussion:

Conclusion: noted

4 Input Liaison Statements

N2-030181: Source: CN4, Type: LS IN, Title: LS on MNP for Pre-paid Subscribers

Discussion: Reply to the LS is in document N4-030377/N2-030273.

Conclusion: noted

N2-030273: Source: CN4, Type: LS IN, Title: Clarification on MNP for Pre-paid Subscribers

Discussion:

Conclusion: noted

N2-030182: Source: SA2, Type: LS IN, Title: LS on CAMEL support for the Presence Service

Discussion: The liaison statement is presented in Joint meeting with CN4. SA2 has agreed that the Pc interface shall allow to obtain status information relating to an active CS call, the corresponding CR is attached. Additionally, TS 23.141 already says that Pg interface shall allow reporting GPRS-related events, such as PDP context active/attach/not reachable for paging/detach/routing area update.

Currently the interfaces Pc and Pg are specified to use MAP procedures, however, SA2 believe that the functions described above might not be available via MAP only, but CAP procedures might also be needed. SA2 asks CN2 and CN4 to determine how the Presence Network Agent can obtain the information described above via the Pc and Pg

interfaces. SA2 asks that if the solution requires the use of CAP that CN2 and CN4 inform SA2 of the need to update the Presence stage 2 (TS 23.141).

Alcatel believes that CAMEL is capable of doing the reporting and there is no need to repeat this functionality using MAP. Multiple point of control could be avoided by using TDP(N). CN2 chairman points out that we can make reporting CAMEL functionality and use CAP signalling or make the reporting CAMEL functionality and use MAP signalling, or make the reporting independent of CAMEL and use MAP signalling.

N4-030676 will be response to the LS and will be handled in CN4 meeting only (will be sent to CN2 for information).

Conclusion: noted

N2-030226: ITU-T SG 11, Type: LS IN, Title: Liaison statement on “Signalling Requirements for IP-QOS”

Discussion:

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	6.11.0	N2	LANTELME, Isabelle
TS	03.78	CAMEL Phase 2; Stage 2	R1998	7.8.0	N2	LANTELME, Isabelle
TS	09.78	CAMEL Application Part phase 1 (stage 3)	R1996	5.7.0	N2	NOLDUS, Rogier
TS	09.78	CAMEL Application Part phase 2 (stage 3)	R1997	6.5.0	N2	NOLDUS, Rogier
TS	09.78	CAMEL Application Part phase 2 (stage 3)	R1998	7.1.0	N2	NOLDUS, Rogier
TR	21.978	Feasibility Technical Report – CAMEL Control of VoIP Services	R1999	3.0.0	N2	SMITH, David
TS	23.078	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3 - Stage 2	R1999	3.16.0	N2	HOMANN, Christian
TS	23.078	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3 - Stage 2	Rel-4	4.8.0	N2	HOMANN, Christian
TS	29.078	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) specification	R1999	3.15.0	N2	NOLDUS, Rogier
TS	29.078	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) specification	Rel-4	4.8.0	N2	NOLDUS, Rogier
Draft	23.078	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 4 - Stage 2	Rel-5	5.3.0	N2	SUMIO, Myagava
Draft	29.078	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase; CAMEL Application Part (CAP) specification	Rel-5	5.3.0	N2	NOLDUS, Rogier
TS	23.278	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 4 - Stage 2; IM CN Interworking	Rel-5	5.2.0	N2	Angelica Remoquillo
TS	29.278	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 4; CAMEL Application Part (CAP) specification for IP Multimedia Subsystems (IMS)	Rel-5	5.2.0	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

N2-030183: MCC, Type: Work plan, Title: Latest version of the Work plan

Discussion:

Conclusion: noted

N2-030269: TSG-T Vice Chair, Type: Template for the OMA overlaps discussion

Discussion: The overlap between OMA work and CAMEL work in CN2 was not identified.

Reliance on input from OMA is where we are directed for our work from OMA, that is, we are planning to fulfil a requirement from OMA.

Reliance on output of OMA is where we are going to take the output from OMA for use in conjunction with our specifications.

Vodafone's comment is that CAMEL *Any Time Interrogation* procedure could be used to obtain mobile's location and status information, if needed for OMA purposes. The response will be sent in N2-030274.

Conclusion: noted

N2-030274: TSG-T Vice Chair, Type: CN2 response to Template for the OMA overlaps discussion

Discussion:

Conclusion: approved, will be sent to Kevin Holley by MCC

N2-030225: Ericsson, Type: Candidature for CN2 Vice Chair

Discussion:

Conclusion: revised to N2-030272

N2-030272: Ericsson, Type: Candidature for CN2 Vice Chair

Discussion:

Conclusion: Mr. Rogier Noldus was elected for the position of 3GPP TSG CN WG 2 Vice Chairman

5.3 Meeting calendar of year 2004

5.4 Terms of reference

6 Maintenance of earlier CAMEL phases

6.1 CAMEL phase 1

6.2 CAMEL phase 2

7 CAMEL3, Resolution of outstanding issues for Release 99

7.1 CAMEL3, Miscellaneous

7.2 CAMEL3/ATM&ATSI

7.3 CAMEL3/GPRS

N2-030207: TS 23.078, Rel-5, Nokia, Type: CR, CR#565, Title: TC-ABORT shall not cause "same signal" output in GPRS dialogue handler

Discussion: The CR approved in CN2#28 had an editing error. The TC-ABORT also outputs the same signal, which is incorrect. This CR moves the output "same signal" under TC-END only.

Conclusion: *approved*

7.4 CAMEL3/MO SMS

7.5 CAMEL3/Call Related

N2-030250: TS 23.078, R99, Siemens, Type: CR, CR#581, Title: Behaviour of HLR upon location updating in CAMEL Phase 3

Discussion: The first two paragraphs of "CAMEL specific handling of location updating and data restoration (4.5.9)" had been copied from CAMEL Phase 2. Later, the mobility management topics were added, but the copied parts have been left untouched. The HLR in this subclause still implies as "CAMEL Phase 2" HLR.

This CR proposes to remove "CAMEL phase 2" so that the HLR in this subclause applies CAMEL phase 3 as default.

In TS 23.078 Rel-5, in section 4.5.10 it is proposed to change "may" to "shall" in N2-030252, so that it reads "The HLR shall then send to the VLR CAMEL subscription data for one of the CAMEL phases supported by the VLR or, if some different handling is required, data for substitute handling".

Vodafone's comment is that the HLR may send to the VLR CAMEL subscription data for one of the CAMEL phases supported by the VLR, because there may not be any CAMEL information. It is not specified what happens if there is no CAMEL subscription data.

Last section about the CAMEL phase 4 will be removed to make the CR clearer and this will be discussed in N2-030252.

Conclusion: *revised to N2-030275 (correct version is 3.16.0)*

N2-030275: TS 23.078, R99, Siemens, Type: CR, CR#581r1, Title: Behaviour of HLR upon location updating in CAMEL Phase 3

Discussion:

Conclusion: *approved without presentation*

N2-030251: TS 23.078, Rel-4, Siemens, Type: CR, CR#582, Title: Behaviour of HLR upon location updating in CAMEL Phase 3

Discussion: This is

Conclusion: *revised to N2-030276*

N2-030276: TS 23.078, Rel-4, Siemens, Type: CR, CR#582r1, Title: Behaviour of HLR upon location updating in CAMEL Phase 3

Discussion: The same comments and changes apply as for R99 CR.

Conclusion: *approved without presentation*

N2-030252: TS 23.078, Rel-5, Source: Siemens AG, Type: CR, CR#583, Title: Behaviour of HLR upon location updating in CAMEL Phase 4

Discussion: Vodafone: Even if the VLR may support the appropriate CAMEL phase, still HLR may take a decision not to sent CAMEL subscription data to VLR. Vodafone would not like to approve changes to section 4.5.10.

This CR is rejected and T-Mobil will draft a new CR with approved wording.

Conclusion: *rejected*

N2-030277: TS 23.078, Rel-5, Source: T-Mobil, Type: CR, CR#593, Title: Behaviour of HLR upon location updating in CAMEL Phase 4

Discussion: This CR introduces a sentence to cover all conditions in the VLR for the sending of CAMEL subscription data. Following wording is agreed: "The HLR may then send CAMEL subscription data to the VLR or, if some different handling is required, data for substitute handling. The CAMEL subscription data sent by the HLR shall comply with the indication of supported CAMEL phases and supported CAMEL phase 4 CSIs as received from the VLR."

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

N2-030204: Rel-5, Source: CN2 Chairman, Type: Discussion, Title: CAMEL4 open issue list

Discussion: The document was discussed item-by-item. It will be revised and delivered by 2nd of June

Conclusion: *revised to N2-030278*

N2-030278: Rel-5, Source: CN2 Chairman, Type: Discussion, Title: CAMEL4 open issue list

Discussion:

Conclusion: *will be delivered by 2nd of June, noted*

N2-030205: Rel-5, Source: CN2 Chairman, Type: Discussion, Title: Recorded CAMEL4 decisions

Discussion: Release 6 decisions have to be fine-tuned and maybe open issues document as well. If Reconnect is used in Disconnect DP, then NC or NP may have EDS. Reconnect after Answer case should be added to open issues list.

Conclusion: *revised to N2-030279*

N2-030279: Rel-5, Source: CN2 Chairman, Type: Discussion, Title: Recorded CAMEL4 decisions

Discussion:

Conclusion: *will be delivered by 2nd of June, noted*

N2-030202: TS 23.018, Rel-5, Source: Vodafone, Type: CR, CR#122, Title: Release Result from CAMEL_MT_GMSC_Notify_CF

Discussion : Do we need the “Release” which is introduced as it has the same handling as “Fail”. Why we have different handling for CAMEL_MT_VMSC_Notify_CF and CAMEL_MT_GMSC_Notify_CF. In CAMEL_MT_VMSC_Notify_CF there is not “Release” as a result, only “Fail”.

The CR was postponed to joint meeting with CN4. This CR leads to different handling in GMSC and VMSC, but separate CR can resolve this.

Conclusion: *approved by CN4, endorsed by CN2*

N2-030217: TS 23.079, Rel-5, Source: Ericsson, Type: CR, CR#25, Title: Correction to interaction between ORLCF and forwarding notification

Summary: According to TS 23.079, the T-CSI CAMEL Service should be notified about the call forwarding in the GMSC, before the GMSC has verified that the call forwarding can be performed at the GMSC server due to optimal routeing.

If the GMSC denies the optimal routeing request from the VMSC, the optimal routeing will be performed by the VMSC. However, the T-CSI CAMEL Service was already informed about the pending forwarding in the GMSC.

Hence, this means that the T-CSI CAMEL Service does not know where the call forwarding takes place. The T-CSI CAMEL Service should be informed after the GMSC has verified that the optimal routeing can apply in the GMSC.

Discussion: The document was discussed first in CN2 and then postponed to Joint meeting with CN4 (N4-030514). Nokia supports this CR. Siemens would like to see reasoning in the SDL.

The principle is agreed. The document is revised to N4-030675/N2-030298. CN2 leaves the further handling to CN4.

Conclusion: *revised to N4-030677/N2-030298*

N2-030298: TS 23.079, Rel-5, Source: Ericsson, Type: CR, CR#25, Title: Correction to interaction between ORLCF and forwarding notification

Discussion:

Conclusion: *not available, postponed*

N2-030218: TS 23.018, Rel-5, Source: Ericsson, Type: CR, CR#115, Title: Stopping No_Answer timer in the case of forwarding notification

Discussion: In figure 36e: process MT_GMSC (sheet 5), before procedure call OR_Handle_RCH, the No_Answer timer shall be stopped (procedure call CAMEL_Stop_TNRy).

Postponed to joint meeting with CN4. The CAMEL_Start_TNRy procedure call on sheet 5 should be CAMEL_Stop_TNRy. We also need to show the handling for TNRy expiry in the state Wait_For_Forward_Answer.

The change on page 7 (sheet 4) will be cancelled to have existing functionality. Alcatel proposes to put a note in the SDL “No timer shall be started”.

Conclusion: *revised to N4-030679/N2-030301*

N4-030679 was conditionally approved by CN4 and the condition is CN2 endorsement of N2-030301. N2-030301 was endorsed without presentation by CN2.

N2-030184: TS 23.078, Rel-5, Source: Ericsson, Type: CR, CR#554, Title: Correction to MAP PRN and to MAP SRI

Summary: The present CR corrects the following errors in TS 23.078.

Provide Roaming Number

The names of the IEs “*Supported CAMEL Phases In GMSC*” and “*Offered CAMEL4 CSIs In GMSC*” should not be GMSC-centric. These IEs may result from SRI from GMSC or from SRI from gsmSCF. Hence, the naming should be generic. The description in the PRN Information Flow table shall give clear indication where these IEs may originate.

Send Routeing Info from GMSC to HLR

The description of the IEs “*Supported CAMEL Phases*” and “*Offered CAMEL4 CSIs*” should state clearly that these IEs relate to capability in the GMSC. These IEs are used in various Information Flows; the Information Flow in which they are used determines their meaning. Hence, proper description is needed.

Send Routeing Info from gsmSCF to HLR

The IE “*Supported CAMEL Phases*” is Optional. This is illogical for the following reasons:

- (1) For SRI from GMSC to HLR, the corresponding IE is marked Mandatory. Within the same 3GPP Release, the handling of MAP SRI in the HLR should be as similar as possible. The marking of the IE “*Supported CAMEL Phases*” in SRI from gsmSCF shall therefore be set to Mandatory.
- (2) A gsmSCF that has the capability to send SRI to the HLR must by definition support CAMEL Phase 4. Hence, that SCP shall comply with the Information Flow table for MAP SRI from gsmSCF to HLR, as specified in Rel-5. Hence, the gsmSCF always has the possibility to include the supported CAMEL Phases.

It is specified for MAP PRN between HLR and VLR that the HLR may receive the IE “*Offered CAMEL4 CSIs In GMSC*” in MAP SRI from gsmSCF. However, the Information Flow for MAP SRI from gsmSCF to HLR does not contain this IE. Therefore, the HLR can't place it in MAP PRN. Hence, the IE “*Offered CAMEL4 CSIs*” shall be added to MAP SRI from gsmSCF to HLR.

Discussion: Originally Offered CAMEL 4 CSIs in GMSC were introduced to indicate supported CSIs in GMSC; therefore we should not remove them.

According to T-Mobil, network elements and the home network should be informed about the capabilities in the visited network. Offered CAMEL 4 CSIs are in the SRI. They should be related to GMSC not to gsmSCF

The HLR implementation should be identical; the HLR just relays what it receives.

Alcatel: If the HLR receives SRI with the supported CAMEL phases, they are supported CAMEL phases in the GMSC.

Nokia: Supported CAMEL phases should be optional, not mandatory. SCP should not be mandated to indicate the support of CAMEL. It should be allowed to leave this parameter out.

We have 3 options:

1. No sending supported CAMEL phases and CSIs at all from SCP
2. To send them and leave them optional.
3. To send them and have them mandatory

T-Mobil: If we send them, what would be the content of CAMEL4 CSIs supported in gsmSCF? Why would SCP report them to HLR? In offered CAMEL4 CSIs we have certain values, which can be inserted. If gsmSCF includes specific CSIs in the list, what is their meaning? T-Mobil would prefer to leave them optional, so that HLR can leave with both situations.

The HLR is already transparent related to those parameters. Ericsson proposes that Supported CAMEL phases in SRI from SCP to HLR are optional. There is special table for GMSC to HLR information flow.

Decisions:

- Conclusion is that SupportedCamelPhases in SRI is optional. It stays mandatory in GMSC case.
- Offered CAMEL4 CSIs in SRI is marked as “S” (special) and it shall be present if CAMEL phase 4 support is indicated.
- SupportedCamelPhasesInGMSC parameter in PRN: The conclusion is to delete “inGMSC” from the parameter name.
- Offered CAMEL4 CSIs in PRN: The conclusion is to delete “inGMSC” from the parameter name.

Conclusion: revised to N2-030296

N2-030296: TS 23.078, Rel-5, Source: Ericsson, Type: CR, CR#554r1, Title: Correction to MAP PRN and to MAP SRI

Discussion: The changes are: the parameter name, cross-references in the cover page.

SupportedCamelPhases will change a name into SupportedCamelPhases in Interrogating Node. Offered CAMEL4 CSIs will change a name into Offered CAMEL4 CSIs in Interrogating Node.

Conclusion: revised to N2-030300/N4-030674

N2-030300: TS 23.078, Rel-5, Source: Ericsson, Type: CR, CR#554r2, Title: Correction to MAP PRN and to MAP SRI

Discussion:

Conclusion: approved without presentation, deadline for delivery is Monday, 26th of May, 14:00 CET

N2-030219: TS 29.002, Rel-5, Source: Ericsson, Type: CR, CR#618, Title: Correction to naming of PRN parameter

Discussion: Siemens proposes to expand section 7.6.3.36x by “by sending entity”. T-Mobil proposes to mention which could be the sending entity, i.e. GMSC and gsmSCF because only those can send those parameters. There should be no impact on HLR implementations.

The document was discussed in joint meeting with CN4.

Reference to 7.6.3.36E shall be redirected. In cover page, linked CR should be marked.

Supported CAMEL phases parameter should be renamed to Supported CAMEL phases in Interrogating Node. That would be done systematically and in ASN.1 definition. Similarly it has to be done for offered CAMEL4 CSIs. Section 7.6.3.36E, should be renamed to “Supported CAMEL phases in Interrogating Node”.

Conclusion: revised to N2-030297

N2-030297: TS 29.002, Rel-5, Source: Ericsson, Type: CR, CR#618r1, Title: Correction to naming of PRN parameter

Discussion:

Conclusion: revised to N2-030299/ revised to N4-030677.

N4-030677 was approved without presentation in CN4. N2-030299 is endorsed by CN2.

N2-030186: TS 23.078, Rel-5, Source: Ericsson, Type: CR, CR#556, Title: Correction to assisting gsmSSF

Discussion:

Conclusion: approved

N2-030187: TS 23.078, Rel-5, Source: Ericsson, Type: CR, CR#557, Title: Correction to Charge Indicator

Discussion: The CR proposes to correct the description of the Charge Indicator in the Event Report BCSM IF.

Minor wording change is proposed in the description column. Alcatel proposed to document mapping between stage 2 and stage 3, in stage 3 specification. This can be a subject of the separate CR.

Conclusion: revised to N2-030280

N2-030280: TS 23.078, Rel-5, Source: Ericsson, Type: CR, CR#557r1, Title: Correction to Charge Indicator

Discussion:

Conclusion: postponed to next meeting, not available

N2-030190: TS 23.078, Rel-5, Source: Ericsson, Type: CR, CR#560, Title: Default value for Domain Indicator in ATI IF

Discussion: An HLR may support MAP Any Time Interrogation (ATI) in accordance with 3GPP Rel-5. The ATI IF specifies that the gsmSCF indicate the Requested Domain. This CR proposes to specify that when the HLR does not receive the Requested Domain, it shall assume “circuit switched”.

How HLR knows which CAMEL phase SCP supports? The absence of this parameter indicates lack of CAMEL4.

According to Vodafone this should be reflected in the SDL as well, because we specify the HLR functionality.

Conclusion: revised to N2-030282

N2-030282: TS 23.078, Rel-5, Source: Ericsson, Type: CR, CR#560r1, Title: Default value for Domain Indicator in ATI IF

Discussion:

Conclusion: approved

N2-030192: TS 23.078, Rel-5, Source: Ericsson, Type: CR, CR#562, Title: Correction to Specialized Resource Report IF

Discussion:

Conclusion: approved

N2-030194: TS 29.078, Rel-5, Source: Ericsson, Type: CR, CR#309, Title: Correction to IPSSPCapabilities ASN.1 syntax

Discussion: This CR removes the CAP version references in the definition of IPSSPCapabilities and the CAP version reference in section 14.2. In 5.1 in the very first change of the CR, "CAP v2" shall be removed.

Conclusion: revised to N2-030283

N2-030283: TS 29.078, Rel-5, Source: Ericsson, Type: CR, CR#309r1, Title: Correction to IPSSPCapabilities ASN.1 syntax

Discussion:

Conclusion: approved

N2-030195: TS 29.078, Rel-5, Source: Ericsson, Type: CR, CR#310, Title: Removing UnknownLegId Error from DFCWA

Discussion:

Conclusion: approved

N2-030196: TS 29.078, Rel-5, Source: Ericsson, Type: CR, CR#311, Title: Removing DFCWA from assisting gsmSSF dialogue

Summary: The Operation Packages for the assisting gsmSSF dialogue contain the CAP Operation ***DisconnectForwardConnectionWithArgument*** (DFCWA). DFCWA is introduced in CAMEL Phase 4 to specify a Call Segment in the Disconnect Forward Connection (DFC) IF. However, when the DFC IF is used within an assisting dialogue, it shall never contain a Call Segment Id. Hence, the DFCWA is not required in the assisting dialogue. The CR removes the ***DisconnectForwardConnectionWithArgument*** from the Operation Package for the assisting dialogue.

Discussion: this CR should update Section 11.14 as well.

Conclusion: revised to N2-030284

N2-030284: TS 29.078, Rel-5, Source: Ericsson, Type: CR, CR#311r1, Title: Removing DFCWA from assisting gsmSSF dialogue

Discussion:

Conclusion: approved

N2-030285: TS 23.078, Rel-5, Source: Alcatel and Ericsson, Type: CR, CR#594, Title: Inclusion of DFC IF from assisting gsmSSF

Discussion: This CR is a result of discussion on N2-030196.

Conclusion: approved

N2-030199: TS 23.078, Rel-5, Source: Ericsson, Type: CR, CR#563, Title: Reference to ITU-T timer for default No_Answer timer

Summary: Procedure CAMEL_Start_TNRy specifies that the MSC may use an MSC-internal *default timer value* for the No_Answer timer. However, there is no indication about the permissible value range for the MSC-internal default timer value. This CR includes a reference to ITU-T Recommendation Q.118 in Procedure CAMEL_Start_TNRy.

Discussion: Should this be defined in the text, not in the SDL?

Siemens: ITU has no specific value, it's still the room to be determined by each operator, therefore this CR does not include any value from Siemens point of view (Siemens implementations already exist).

According to Vodafone, there should be no interoperability problems if there is only a recommendation that it should be according to ITU-T Recommendation Q.118. Lucent is not comfortable to recommend the range of ITU timers, because we don't know what other operators have done already.

Ericsson's proposal is not to define the range, but to define the upper limit for the timer.

Decision is that this will be specified in separate section where the full range of allowed values would be recommended.

DP numbers should not be used; there should be only DP names. This will be resolved in a separate CR.

Conclusion: revised to N2-030286

N2-030286: TS 23.078, Rel-5, Source: Ericsson, Type: CR, CR#563r1, Title: Reference to ITU-T timer for default No_Answer timer

Discussion: "s" will be changed to "second" by rapporteur offline.

Conclusion: approved

N2-030287: TS 23.078, Rel-5, Source: Siemens, Type: CR, CR#596, Title: Replacing DP numbers by DP names

Discussion:

Conclusion: approved

N2-030208: TS 29.078, Rel-5, Source: Nokia, Type: CR, CR#323, Title: DP arming requirement for NP calls

Discussion:

Conclusion: approved

N2-030209: TS 23.078, Rel-5, Source: Nokia, Type: CR, CR#567, Title: Adding of TIF-CSI into CAMEL stage 2 MAP-ISD for Call Deflection

Discussion: TIF-CSI is missing from CAMEL stage 2 although it shall be sent to VLR if the subscriber has it. TIF-CSI is needed for Call Deflection supplementary service interworking.

TIF-CSI is added to information flows (InsertSubscriberData).

TIF-CSI is removed from MSC part, since the modelling refers to VLR only.

Conclusion: approved

N2-030227: TS 23.078, Rel-5, Source: Ericsson, Type: CR, CR#571, Title: MSC behaviour in the case of SSF invocation failure

Summary: When an MSC procedure has invoked a gsmSSF instance, the MSC transits to the state "Wait_for_gsmSSF_Invoked". If the gsmSSF invocation fails, then the MSC procedure will receive the internal signal "Int_Error". This is currently reflected in procedure CAMEL_OCH_MSC_INIT.

However, it needs to be reflected in other MSC procedures as well, such as CAMEL_SDS_MO_INIT. The receiving of Int_Error after an attempt to invoke an SSF instance applies also to SMS (smsSSF) and to GPRS (gprsSSF).

In general, when MSC or SGSN invokes an SSF instance, it shall be capable of receiving an Error signal (Int_Error). The MSC or SGSN shall then take appropriate action and shall return to the Idle state. This CR adds the SDL for all Procedures from within which an SSF instance may be invoked.

Discussion: Siemens finds that this CR is not acceptable. It is not visible that the error comes internally. With comment or text extension for input signals saying that the error is generated internally, Siemens is willing to accept this CR.

In the Procedure CAMEL_MT_GMSC_INIT and Procedure CAMEL_ICH_MSC_INIT, in the result=fail case the 23.018 calling procedure generates the "Release" output which is not needed.

Conclusion: revised to N2-030288

N2-030288: TS 23.078, Rel-5, Source: Ericsson, Type: CR, CR#571r1, Title: MSC behaviour in the case of SSF invocation failure

Discussion:

Conclusion: postponed to next meeting, not available

N2-030228: TS 23.078, Rel-5, Source: Ericsson, Type: CR, CR#572, Title: Receiving Int_CWA after reporting Abandon

Summary: All MSC Procedures that report Abandon to the gsmSSF and where the gsmSSF may report the Abandon event to the gsmSCF as EDP-R, shall be able to receive Int_Continue_With_Argument.

Discussion: The originator of the CR will improve a reason for change on the cover page.

In Procedure CAMEL_MT_GMSC_INIT, page 7 will be stricken out in the revised CR.

Conclusion: revised to N2-030289

N2-030289: TS 23.078, Rel-5, Source: Ericsson, Type: CR, CR#572, Title: Receiving Int_CWA after reporting Abandon

Summary:

Conclusion: approved without presentation

N2-030230: TS 23.078, Rel-5, Source: Ericsson, Type: CR, CR#574, Title: Correction to User Interaction handling in MSC

Discussion: In SDLs, comment boxes are in solid line instead of dotted line due to Word bug. Some pages are not changed, but still deleted and introduced again

On page 9, there is Input Int_SRF_Released, but no output Int_SRF_Released. After "Release", on page 9, DP_O_Abandon_DFC is not proper next state, because SSF does not exist anymore (no input received anymore).

Conclusion: revised to N2-030291

N2-030291: TS 23.078, Rel-5, Source: Ericsson, Type: CR, CR#574r1, Title: Correction to User Interaction handling in MSC

Discussion:

Conclusion: postponed to next meeting, not available

N2-030232: TS 23.078, Rel-5, Source: Ericsson, Type: CR, CR#576, Title: Correction to TC Establishment procedure

Discussion:

Conclusion: approved

N2-030233: TS 23.078, Rel-5, Source: Ericsson, Type: CR, CR#577, Title: Correction to Disconnect Forward Connection handling

Summary: There are several places in process CS_gsmSSF from signal Int_Disconnect_Forward_Connection is sent to the MSC. For the MSC, it is transparent whether Int_Disconnect_Forward_Connection is sent as a result of CAP DFC, CAP DFCWA or Tssf expiry.

CS_gsmSSF is not consistent regarding the receiving of the response signal from the MSC. This CR corrects CS_gsmSSF on sheet sheet 37, 38 and 40. When gsmSSF sends Int_DFC or Int_DFCWA to MSC, it shall wait for Int_TC_Released. When gsmSSF sends Int_DFC or Int_DFCWA to MSC, it shall wait for Int_SRF_Released;

Discussion: Int_TC_Released and Int_SRF_Released could be handled in Int_Waiting for instructions state. We don't need to introduce intermediate state.

The CR will be revised so that SSF will not wait for the response and MSC will not generate the response message (MSC outputs removed).

Conclusion: revised to N2-030292

N2-030292: TS 23.078, Rel-5, Source: Ericsson, Type: CR, CR#577r1, Title: Correction to Disconnect Forward Connection handling

Discussion:

Conclusion: revised to next meeting

N2-030243: TS 29.078, Rel-5, Source: Alcatel, Type: CR, CR#321, Title: ASN.1 syntax basic corrections

Discussion:

Conclusion: approved

N2-030254: TS 23.078, Rel-5, Source: Siemens AG, Type: CR, CR#585, Title: VLR number in ERB is not needed
Summary: VLR number in the location information IE stays constant during a call. Only one-time information is valid throughout one complete call. Fortunately, this information is sent at the first contact to the gsmSCF through Initial DP IF as a mandatory IE.

For several DPs, the Location Information IE is sent in the Event Report BCSM IF if armed. As ERB is never sent before IDP, the VLR number is never needed in ERB.

This CR removes VLR number from the Location Information IE in ERB.

Discussion: Some clarification is needed what information will anchor MSC report in case of inter MSC handover.

Which VLR will be useful in the SCP? Ericsson proposes to report always the same VLR number, the VLR number in which the subscriber still resides.

Location number needs to be marked as applicable in change of position notification for MO case. This topic will be reconsidered as a part of the separate CR.

Conclusion: approved

N2-030256: TS 23.078, Rel-5, Source: Alcatel, Type: CR, CR#587, Title: SRI Handling and CAMEL phase 4

Discussion:

Conclusion: approved

N2-030220: TS 29.078, Rel-5, Source: Ericsson, Type: CR, CR#315, Title: Correction to Procedure Descriptions (Dialogue Handling)

Discussion:

Conclusion: withdrawn

N2-030221: TS 29.078, Rel-5, Source: Ericsson, Type: CR, CR#316, Title: Correction to Procedure Descriptions (Charging)

Discussion:

Conclusion: withdrawn

N2-030222: TS 29.078, Rel-5, Source: Ericsson, Type: CR, CR#317, Title: Correction to Procedure Descriptions (Call processing)

Discussion: withdrawn

Conclusion:

N2-030223: TS 29.078, Rel-5, Source: Ericsson, Type: CR, CR#318, Title: Correction to Procedure Descriptions (User Interaction)

Discussion:

Conclusion: withdrawn

N2-030224: TS 29.078, Rel-5, Source: Ericsson, Type: CR, CR#319, Title: Correction to Procedure Descriptions (Call Party Handling)

Discussion:

Conclusion: *withdrawn*

N2-030266: TS 23.066, Rel-5, Source: Ericsson, Type: CR, CR#25, Title: Incorrect Charging with MNP

Discussion: (N4-030511) This is a counter proposal to N4-030435 from Siemens. TS 23.078 shows the changes to both ATI and ATI ack. T-Mobil asks why there is no indication of a change to the ATI request in the 23.066 CR.

Nokia supports Siemens proposal.

Conclusion: *noted*

N2-030267: TS 29.002, Rel-5, Source: Ericsson, Type: CR, CR#615, Title: Incorrect Charging with MNP

Discussion: N4-030509

Conclusion: *noted*

N2-030201: TS 23.078, Rel-5, Ericsson, Type: CR, CR#564, Title: Correction to Reset Timer handling in CS_gsmSSF

Discussion: The CR improves the processing of Reset Timer in SDL sheet 23 of Process CS_gsmSSF. Negative form of questions makes the SDL hard to read.

If the 2nd reset timer comes before any real operation, it shall be ignored.

T-Mobil, Siemens and Nokia are in favour to remove decision boxes in SDL (Not waiting for first response after IDP in the current CAMEL dialogue? and “First Reset Timer in the current CAMEL dialogue?”) That leads to situation that whenever Reset Timer is received it goes to next state “Set Tssf to Int_Reset_Timer time interval and restart Tssf”.

Alcatel is not in favour of removing decision boxes, but will accept it for Release 5.

Conclusion: revised to N2-030305

N2-030305: TS 23.078, Rel-5, Ericsson, Type: CR, CR#564r1, Title: Correction to Reset Timer handling in CS_gsmSSF

Discussion:

Conclusion: *approved without presentation*

N2-030268: TS 23.078, Rel-5, Source: Ericsson, Type: CR, CR#591, Title: Using ATI for Mobile Number Portability

Discussion: The MAP operation Any Time Interrogation is enhanced by this CR. A direct MAP interface between MNP SRF and gsmSCF is added to provide MNP information. The document was handled in the joint meeting with CN4 in N4-030512. CN4 noted the document.

Conclusion: *postponed to next meeting*

9.3 CAMEL4 / Interactions with Optimal Routing

9.4 CAMEL4 / Call Party Handling

N2-030210: Rel-5, Nokia, Type: Discussion document, Title: Response to N2-030158 : Handling of Outstanding Requests for Legs and Call Segments

Discussion: When new leg is created with ICA operation, shall ICA has to be followed with CWA with leg ID or with call segment ID. Nokia has view that CWA (legID) is more logical, while Alcatel proposes CWA (call segment ID).

Decision 1: ICA shall increment the leg resumption counter, i.e. CWA with legID is required.

Decision 2: SplitLeg operation sets the call segment resumption counter to value one in both target call segment and source call segment.

Decision 3: CWA with no leg ID nor call segment ID, is allowed only if leg1, leg2 or both of them exist in a single CS case. When there is more than 1 CS or any leg# >2, then not allowed.

Decision 4: Connect without leg ID is allowed only in a single call case when there is either leg2 or leg1 and leg2.

Decision 5: Both CS resumption counters and leg resumption counters have to be 0 before the leg is resumed.

Ericsson proposal is that if we have Connect without any parameter we assume leg number2.

Conclusion: noted

N2-030239: TS 23.078, Rel-5, Alcatel, Type: CR, CR#486, Title: Implementing and handling of the Outstanding Request Counter

Discussion: Alcatel proposal is:

The processing of a Continue with Argument with neither LegID nor CSID causes the number of all required resumptions for legs to be set to 0. All stored resumption events for legs are discarded.

The processing of a Connect with a LegID causes the number of required resumptions for that leg to be set to 0. The processing of a Connect without a LegID causes the number of resumptions required to be set to 0 and all stored resumption events for legs are discarded.

Lucent is concerned whether we are changing functionality since there is no check for outstanding request counter? Vodafone proposed variable naming so that it indicated the leg or CS, e.g. request_counter.cs, request_counter (leg).

Conclusion: revised to N2-030293

N2-030293: TS 23.078, Rel-5, Alcatel, Type: CR, CR#486r1, Title: Implementing and handling of the Outstanding Request Counter

Discussion: This CR has impact on EDS collective CR.

Conclusion: approved

N2-020191: TS 23.078, Rel-5, Ericsson, Type: CR, CR#561 Title: Correction to Cancel IF

Summary: The Cancel Information Flow is not aligned with the corresponding ASN.1 structure in TS 29.078. Also, it is currently not clarified when the Call Segment ID may be present in the Cancel Information Flow.

The **Call Segment To Cancel** IE is specified for the Cancel IF, replacing the **Call Segment ID** IE. Call Segment to Cancel IE contains following information elements: Invoke ID and Call Segment ID.

Discussion: In a single CS case which IE is present? Alcatel wants to allow both options in a single CS case. Does "E" mean that at least one shall be present?

Conclusion: revised to N2-030307

N2-020307: TS 23.078, Rel-5, Ericsson, Type: CR, CR#561r1, Title: Correction to Cancel IF

Discussion: The conditions for presence for the two IEs Invoke ID and Call Segment To Cancel is specified. The structure of section 4.6.5.2 is improved.

Conclusion: revised to N2-030312

N2-020312: TS 23.078, Rel-5, Ericsson, Type: CR, CR#561r2, Title: Correction to Cancel IF

Discussion:

Conclusion: approved without presentation, deadline for delivery of the document is Monday, 26th of May, 14:00 CET

N2-020193: TS 29.078, Rel-5, Ericsson, Type: CR, CR#308 Title: Removal of SCI Operation from NC call CAP syntax

Discussion:

Conclusion: approved

N2-020197: TS 29.078, Rel-5, Ericsson, Type: CR, CR#312, Title: Correction to SplitLeg pre-conditions

Discussion: This CR modifies the pre-condition for SplitLeg. In the case when CS 1 exists we use state names O_Active, T_Active, O_Mid_Call or T_Mid_Call.

CS ID1 shall replace CS1. We should use consistent terminology. CS1 will be replaced by CS ID1 by the rapporteur offline.

Conclusion: revised to N2-030308

N2-020308: TS 29.078, Rel-5, Ericsson, Type: CR, CR#312, Title: Correction to SplitLeg pre-conditions

Discussion:

Conclusion: approved

N2-030211: TS 22.078, Rel-5, Nokia, Type: CR, Title: CLIR/CLIP interaction with CSE initiated calls

Discussion: Lucent, Siemens and Alcatel are in favour of not changing anything. Nokia and Ericsson are in favour of this contribution. Stage 2 is not consistent with stage 1.

Conclusion: withdrawn

N2-030212: TS 23.078, Rel-5, Nokia, Type: CR, CR#568, Title: CLIR/CLIP interaction with CSE initiated calls

Discussion:

Conclusion: withdrawn

N2-030189: TS 23.078, Rel-5, Ericsson, Type: CR, CR#559, Title: Correction to Destination Routeing Address in ICA

Discussion: Interaction with tdoc N2-030215. Document N2-030215 is referring to the text removed. Nokia is not in favour to delete the sentence "For calls to an MS this can be the MSISDN (for routeing via a GMSC) or the MSRN received from the HLR (for routeing direct to the VMSC)" from the Destination routeing Address description.

Conclusion : revised to N2-030309

N2-030309: TS 23.078, Rel-5, Ericsson, Type: CR, CR#559r1, Title: Correction to Destination Routeing Address in ICA

Discussion:

Conclusion: approved

N2-030214: TS 23.078, Rel-5, Nokia, Type: CR, CR#569, Title: Warning note about legal interception in SCP initiated calls

Discussion:

Conclusion: postponed

N2-030215: TS 23.078, Rel-5, Nokia, Type: CR, CR#570, Title: CPH charging impacts on the CDRs

Discussion:

Conclusion: postponed

N2-030216: TS 32.205, Rel-5, Nokia, Type: CR, CR#570, Title: CPH charging impacts on the CDRs

Discussion:

Conclusion: postponed

N2-030229: TS 23.078, Rel-5, Ericsson, Type: CR, CR#573, Title: Reporting Disconnect (leg n) after Disconnect (leg 1)

Discussion:

Conclusion: postponed

N2-030231: TS 23.078, Rel-5, Ericsson, Type: CR, CR#575, Title: Correction to procedure CAMEL_ICA_MSC

Discussion:

Conclusion: postponed

N2-030240: TS 23.078, Rel-5, Alcatel, Type: CR, CR#523, Title: Handling of Connect operation with and without LegID

Discussion:

Conclusion: postponed

N2-030198: TS 29.078, Rel-5, Ericsson, Type: CR, CR#313, Title: Correction to parameter name in Connect Operation

Discussion:

Conclusion: postponed

N2-030241: TS 23.078, Rel-5, Alcatel, Type: CR, CR#524, Title: Handling of Information Flows with absent LegID and CS ID

Discussion:

Conclusion: postponed

N2-030234: TS 23.078, Rel-5, Ericsson, Type: CR, CR#578, Title: Reflecting default Leg Id for CWA in CS_gsmSSF

Discussion:

Conclusion: postponed

N2-030253: TS 23.078, Rel-5, Siemens AG, Type: CR, CR#584, Title: Direction change of incoming message Answer

Discussion:

Conclusion: postponed

N2-030257: TS 23.078, Rel-5, Alcatel, Type: CR, CR#588, Title: Misalignment between 23.078 and 29.078 about AC and ACR

Discussion: Same as Nokia N2-030270, but does not change SDL. ReleaseIfDurationExceeded description unchanged in this CR.

Conclusion: postponed

N2-030265: TS 29.078, Rel-5, Alcatel, Type: CR, CR#322, Title: Definition of Leg Id for ICA - Leg Id shall be 3 or higher

Discussion: The title in the CR is different.

Conclusion: postponed

N2-030270: TS 23.078, Rel-5, Nokia, Type: CR, CR#592, Title: aChChargingAddress in ApplyCharging/ApplyChargingReport

Discussion: Same as Alcatel 257, but changes CSA process SDLs

Conclusion: postponed

9.5 CAMEL4 / DTMF Mid-call DP

9.6 CAMEL4/IMS

N2-020260: TS 23.278, Rel-5, Lucent Technologies, Type: CR, CR#40, Title: Incorrect list of TDPs listed for O-IM-CSI

Discussion: There is a TDP list for all CSIs. Cover page has to be changed.

Conclusion: revised to N2-030302

N2-020302: TS 23.278, Rel-5, Lucent Technologies, Type: CR, CR#40r1, Title: Incorrect list of TDPs listed for O-IM-CSI

Discussion:

Conclusion: approved without presentation

N2-020261: TS 23.278, Rel-5, Lucent Technologies, Type: CR, CR#41, Title: Corrections to process IM_SSF

Discussion:

Conclusion: approved

N2-020262: TS 23.278, Rel-5, Lucent Technologies, Type: CR, CR#42, Title: Redundant check for Final_Response_Received in Disconnect procedures.

Discussion:

Conclusion: approved

N2-020264: Rel-5, Lucent Technologies, Type: Discussion document, Title: Handling of re-connected calls in IM-SSF

Discussion:

Conclusion: withdrawn

N2-020263: TS 23.278, Rel-5, Lucent Technologies, Type: CR, CR#43, Title: Incorrect handling of failure SIP response for MT

Discussion:

Conclusion: postponed to next meeting, late document

9.7 CAMEL control over MT SMS

N2-030200: TS 29.078, Rel-5, Ericsson, Type: CR, CR#314, Title: Health warning for Calling Party Number length in IDP SMS

Summary: The present CR proposes the inclusion of a health warning in the InitialDPSMS Procedure. When the MSC or SGSN receives a MT SMS with a Calling Party Number that contains more than 16 digits, then the remaining digits shall be omitted in CAP InitialDPSMS. The omission of these digits from the InitialDPSMS Operation shall not affect the further processing of the Short Message.

Discussion: Vodafone proposes to introduce this warning as normative text instead of the note only. T-Mobil would not like to mandate the truncation towards the SCP, and to leave it as informative note.

Decision: If we take the approach that we have only textual description and not changing ASN.1, then truncation is mandated.

Shall we mandate that the processing is not impacted in MSC and SGSN (if we have 20 digits, we use all 20 digits)? Note should say that truncation does not impact to other interfaces.

Why are more than 16 digits for Calling Party Number possible only in MT SMS case? In MO SMS case, originating number should be MSIDN contained in the VLR. Number is truncated to certain number of digits.

Siemens would like to have complete solution, but not only a health warning. ASN.1 change is acceptable in that sense. The problem is only in the MT SMS case.

Conclusion: revised to N2-030303

N2-030303: TS 29.078, Rel-5, Ericsson, Type: CR, CR#314r1, Title: Health warning for Calling Party Number length in IDP SMS

Discussion: The expression “the Calling Party Number received from MAP contains more than 16 digits” should be changed in order to mention actual MAP operation in which the Calling Party Number is received.

Conclusion: revised to N2-030315

N2-030315: TS 29.078, Rel-5, Ericsson, Type: CR, CR#314r2, Title: Health warning for Calling Party Number length in IDP SMS

Discussion:

Conclusion: approved, will be presented to CN plenary as alternative solution

N2-030304: TS 29.078, Rel-5, Siemens, Type: CR, CR#324, Title: ASN.1 change for Calling Party Number length in IDP SMS

Discussion: This proposal is the result of the discussion on N2-030200. There are 2 competing proposals: Health warning and ASN.1 change (this proposal).

Following may not be needed: "If this data type is used for MO-SMS, the maximum number of digits shall be 16".

Conclusion: *revised to N2-030313*

N2-030313: TS 29.078, Rel-5, Siemens, Type: CR, CR#324r1, Title: ASN.1 change for Calling Party Number length in IDP SMS

Discussion: Address string is imported 2 times. Second time is not address string import, but data type.

Conclusion: *revised to N2-030314*

N2-030314: TS 29.078, Rel-5, Siemens, Type: CR, CR#324r2, Title: ASN.1 change for Calling Party Number length in IDP SMS

Discussion: Address string is imported 2 times. Second import is not address string import, but data type. Delegates need time to think about the proposal.

Conclusion: *approved, will be presented to CN plenary as alternative solution*

9.8 Inclusion of flexible tone injection

N2-030213: Rel-5, Nokia, Type: Discussion document, Title: Discussion paper about CAMEL4 parallel warning tones

Discussion: The document tries to clarify different views on how the parallel CAMEL warning tones shall be handled in the MSC/SSP.

1. What shall SSP do when SCP instructs parallel tone for a leg (two concurrent tones for same leg)? Tone means the entire sequence of beeps.

Nokia proposes to stop ongoing tone, replace it by new tone and forget the first tone, which was ongoing. Alcatel proposes to discard the second tone or alternatively to put the second tone in the queue.

In total there are 4 possibilities: to overwrite the first tone, to discard second tone, to queue the second tone or priority handling.

Ericsson is in favour of overwriting of ongoing tone. Priority handling and queuing is quite complex, so Lucent and T-Mobile prefer Nokia proposal.

Decision 1: The meeting supports the solution to overwrite the ongoing tone with the latter tone for a leg.

2. What shall SSP do when SCP instructs parallel tone for a call segment (two tones in one CS)? Both tones are for the entire call segment.

Nokia proposes that we shall overwrite the first tone, and Alcatel proposal was to discard one tone (but not clear which tone to discard). Alcatel proposes to overwrite the first tone.

Decision 2: The latter tone overwrites the existing tone for a call segment.

3. What shall SSP do when there is a tone for a CS, and then SSP needs to connect a tone for a leg in that particular CS?

- **A: Conference bridge case** (Example case 3 in Nokia's contribution): Nokia proposes that these 2 tones are independent.
- Alcatel proposes that the leg would hear the new tone, other legs the old tone.
- Vodafone's opinion is that conference bridge tones are less important than tones, which are to be played to a single leg. Vodafone would go for the solution to stop the tone to that leg to which a new tone is to be played and play a new tone to a single leg.
- Nokia proposes that these 2 tones are independent. The particular leg could hear two tones, and the other legs will hear second tone only. Ericsson, T-Mobile and Lucent support this solution.
- **B: No conference bridge case** (Example case 4 in Nokia's contribution)

- The proposal is to allow two options and not to differentiate whether it is conference bridge or not. The SCP does not know what the MSC is going to do.

Alcatel proposal is to allow the 2 options; the leg would hear 1 (new) or 2 tones (parallel or in sequence but not to describe it. The old tone may continue after the new tone). T-Mobil agrees with this proposal.

DECISION 3: The particular leg would either hear 1 (new) or 2 tones (parallel or in sequence, but these sub-cases are not described in specification). The other leg(s) would keep hearing the (old) CS tone.

4. Same than the previous but other way around? (First tone to a leg, then a tone for his CS).

DECISION 4: The particular leg would either hear 1 (new) or 2 tones. The other legs would start hearing the new CS tone.

5. Shall a tone "eat" one termination, i.e. is the maximum number of legs reduced by one due to a tone?

DECISION 5: Vodafone will ask opinions from vendors. Nick Russel (Vodafone) will first check the question with active delegates in CN2 before sending it to CN2 email list. Decisions will be added to CAMEL4 decisions list document.

Conclusion: noted

N2-030242: TS 23.078, Rel-5, Alcatel, Type: CR, CR#525, Title: No concurrent playing of tones to the same leg or call segment

Summary: During the discussion of N2-021043 "Playing of Warning Tones" the issue of playing multiple tones has been discussed. It has been agreed that no two warning tones shall be played concurrently. A similar situation exists also for the PlayTone operation, where a tone may be played to the call segment or leg. Tones may be due to a warning tone or due to the PlayTone operation. Also user interactions may need to be considered.

In this document it is proposed not to play multiple tones concurrently to the same call party. In this case only one tone shall be played while the other tones may be delayed or discarded.

Discussion: If we receive AC while we have a warning tone and this tone is put in a queue, what to do if Tcp timer expires. SCP may send another AC with another tone. In that case it would be to take this tone out of the que, because the purpose of that tone is gone.

Conclusion: noted

9.9 Charging notification to CSE

N2-030185: TS 23.078, Rel-5, Ericsson, Type: CR, CR#555, Title: Removal of ENC disarming from SDL

Discussion: The CR removes the reference to "ENC" from sheet 28 of process CS_gsmSSF. In page 3 in the most right branch, task box will be deleted (Reset Pending ENCs).

Conclusion: revised to N2-030306

N2-030306: TS 23.078, Rel-5, Ericsson, Type: CR, CR#555r1, Title: Removal of ENC disarming from SDL

Discussion:

Conclusion: approved

- 9.10 Enhancements of dialled services
- 9.11 Provision of location information of called subscriber
- 9.12 Notification of GPRS mobility management to CSE
- 9.13 CAMEL4/ ODB in HLR-SCP interface
- 9.14 CAMEL4/ Location Information during ongoing call

N2-030246: TS 22.078, Rel-5, Siemens, Type: CR, Title: Change of position procedures armed with criteria

Discussion: Vodafone and Alcatel find that this is not a correction. It is useful especially in case of intersystem handovers, but it is an enhancement, which could be introduced in Rel-6.

According to Ericsson, if we introduce it in Rel-5, we will not be able to complete it in reasonable time. This is not only correction in stage2 and stage3, but this is a change in requirements.

T-Mobil, Ericsson, Vodafone, Nokia and Alcatel find that this is a nice feature, but it's reasonable to introduce it in Release 6. "Change to GSM network" should be replaced by "intersystem handover".

Conclusion: *noted*

N2-030249: Siemens, Type: LS IN, Title: (Proposed) LS on change of position procedures

Discussion: The meeting concluded that the WID and CR for Release 6 stage 1 will be proposed to SA1 first. If SA1 approves this requirement for Release 6, CN2 will approve stage 2 and stage 3 changes. There was no objection in CN2 for this enhancement in Release 6.

CN2 chairman will ask in CN plenary whether we need WID for every technical enhancement in Release 6, or CN2 can create and maintain TEI_6 WID for CAMEL Release 6.

Conclusion: *noted*

N2-030255: TS 23.078, Rel-5, Siemens, Type: CR, CR#586, Title: Removal of Int_CWA in Process CAMEL_T_CHANGE_OF_POSITION_MSC

Discussion: The signal Int_Continue_with_Argument is deleted.

Conclusion: *approved*

N2-030247: TS 23.078, Rel-5, Siemens, Type: CR, Title: Change of position procedures armed with criteria

Discussion:

Conclusion: *postponed*

N2-030248: TS 29.078, Rel-5, Siemens, Type: CR, Title: Change of position procedures armed with criteria

Discussion:

Conclusion: *postponed*

9.15 CAMEL4/GPRS Anytime Interrogation

9.16 CAMEL4 / Partial Implementation of CAMEL phase 4

N2-030188: TS 23.078, Rel-5, Ericsson, Type: CR, CR#558, Title: Correction to partial implementation of CAMEL4

Discussion: Siemens finds that OfferedCAMEL4CSIs shall have “M” in each row, but Alcatel proposes “O”. Description of D-CSI is deleted by mistake in “Update Location”.

Conclusion: *revised to next meeting*

10 Release 6

10.1 Miscellaneous

10.2 Enhanced dialled services

N2-030203: Rel-6, Rapporteur, Type: WID, Title: Enhancement of dialled service for CAMEL.

Discussion: The work item has already been approved in CN plenary, but it is provided to CN2 for information to highlight the changes done during the CN plenary.

Conclusion: *noted*

N2-030206: TS 23.078, Rel-6, CN2 chairman, Type: CR, CR#553, Title: Collective CR for Rel6 Enhanced Dialled Services

Discussion: Delegates are encouraged to send comments by e-mail. Based on comments and output of this meeting, the document will be revised for the next meeting in August.

Conclusion: *noted*

N2-030235: TS 23.078, Rel-6, Samsung Electronics, SK Telecom, Type: CR, CR#579, Title: Enhancements of dialled services procedures in MO and MF calls

Discussion: When leg 2 has been disconnected, the result should be leg 1 only (in Procedure CAMEL_MO_Dialled_services). The revised document should include source SDL files.

Conclusion: *revised to N2-030310*

N2-030310: TS 23.078, Rel-6, Samsung Electronics, SK Telecom, Type: CR, CR#579, Title: Enhancements of dialled services procedures in MO and MF calls

Discussion: This document will be incorporated in the collective CR.

Conclusion: *approved (The deadline for delivery of the document is Friday, 30th of May)*

N2-030258: TS 23.078, Rel-6, Alcatel, Type: CR, CR#589, Title: Interworking between EDS and DP-O-Abandon handling

Discussion:

Conclusion: *approved, will be incorporated to collective CR*

N2-030238: TS 23.018, Rel-6, Samsung Electronics, SK Telecom, Type: CR, Title: Enhancements of dialled services procedures in MO and MF calls

Discussion: Source SDLs will be added in the zip file.

Conclusion: *revised to N2-030311*

N2-030311: TS 23.018, Rel-6, Samsung Electronics, SK Telecom, Type: CR, Title: Enhancements of dialled services procedures in MO and MF calls

Discussion:

Conclusion: *endorsed, will be a first version of collective CR for TS 23.018, deadline for delivery is Friday, 30th of May*

N2-030259: TS 23.078, Rel-6, Alcatel, Type: CR, CR#590, Title: EDS and TDP-RouteSelectFailure

Discussion: It was decided at the last Ad Hoc meeting on EDS that the arming of TDP RouteSelectFailure shall not prevent Enhanced dialled services.

The DP-RouteSelectFailure shall be reported to the CAMEL dialogue relative to EDS if this dialogue is ongoing otherwise this event is reported to the dialogue relative to O-CSI as it is done from CAMEL phase 3. After reporting DP-RouteSelectFailure on the dialogue relative to EDS if this dialogue is closed the DP-RouteSelectFailure is also reported as an TDP to the "O-CSI" gsmSSF process if the DP Route_Select_Failure still exists.

Release call should be studied.

Conclusion: *postponed to next meeting*

N2-030244: TS 23.078, Rel-6, Alcatel, Type: CR, CR#580, Title: Re-connect for Enhanced Dialled Services

Discussion:

Conclusion: *postponed*

N2-030237: TS 29.002, Rel-6, Samsung Electronics, SK Telecom, Type: CR, Title: Handling of partial implementation for enhanced dialled service

Discussion:

Conclusion: *revised to N2-030290*

N2-030290: TS 29.002, Rel-6, Samsung Electronics, SK Telecom, Type: CR, Title: Handling of partial implementation for enhanced dialled service

Discussion:

Conclusion: *postponed to next meeting*

N2-030236: TS 29.078, Rel-6, Samsung Electronics, SK Telecom, Type: CR, CR#320, Title: Implementation of enhanced dialled service

Discussion:

Conclusion: *postponed to next meeting*

N2-030245: TS 29.002, Rel-6, Samsung Electronics, SK Telecom, Type: CR, Title: Enhancements for the Partial Implementation for Enhanced Dialled Service

Discussion:

Conclusion: *postponed to next meeting*

11 Review of dates and hosts for future meetings

Review of the N2 meeting schedule for 2003

TITLE	TYPE	DATES	LOCATION	CTRY
3GPPCN2#30	WG	25-29 August 2002	Sophia Antipolis	France
3GPPCN2#31	WG	27-31 October	TBD	TBD

11 Closing of the meeting (15:30 Friday)

Discussion on merging with CN4:

Alcatel, Lucent, and Siemens find that merging with CN4 would be possible beginning of next year

T-Mobil finds that the merging is possible second quarter of 2004

CN2 chairman's personal view is that merging is possible mid next year.

CN2 chairman will convey the result of discussion to CN plenary. Until there is work for more than one working day in CN2 there is no sense to merge, since CN4 will run a parallel sessions for the whole meeting and in that case there is no benefit of merging.

Meeting schedule for year 2004:

Delegates prefer to have a meeting in November, rather than in October 2004. This gives more time to receive inputs from other working groups. The plenary will decide on the final date of CN WGs meetings. The intention is to have one WG meeting between plenaries.

Deadlines for the August meeting:

- The deadline for document numbers request is 14th of August 2003, 12:00 CET
- The deadline for documents is 14th of August 2003, 23:59 CET

The Chairman thanked to the delegates for the contributions and MCC for the support. The meeting was closed at 13:30.

Annex A Attendees list

Member of 3GPP (ETSI)

Ms. Véronique Belfort	ALCATEL S.A.	3GPPMEMBER (ETSI)	FR	+33 1 30 77 86 11	veronique.belfort@alcatel.fr	YES
Mr. Richard Brook	SAMSUNG Electronics	3GPPMEMBER (ETSI)	GB	+44 1594 836646	richardbrook39@aol.com	YES
Mr. Christian Homann	ALCATEL S.A.	3GPPMEMBER (ETSI)	DE	+49 711 821 45632	c.homann@alcatel.de	YES
Mr. Sumio Miyagawa	SIEMENS AG	3GPPMEMBER (ETSI)	AT	+43 51707 21381	sumio.miyagawa@siemens.com	YES
Mr. Rogier Noldus	ERICSSON L.M.	3GPPMEMBER (ETSI)	NL	+31 161 249 400	rogier.noldus@etm.ericsson.se	YES
Mr. Keijo Palviainen	NOKIA Corporation	3GPPMEMBER (ETSI)	FI		keijo.palviainen@nokia.com	YES
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Dr. Georg Wegmann	T-MOBILE DEUTSCHLAND	3GPPMEMBER (ETSI)	DE	+49 228 936 3468	georg.wegmann@t-mobile.de	YES

Member of 3GPP (T1)

Mr. Stephen Hayes	Ericsson Inc.	3GPPMEMBER (T1)	US	+1 972 583 5773	stephen.hayes@ericsson.com	YES
Mrs. Angelica Remoquillo	Lucent Technologies	3GPPMEMBER (T1)	US	+1 630 713 9548	atr@lucent.com	YES

Member of 3GPP (TTA)

Mr. Hyo Chul Bang	Samsung Electronics Co., Ltd	3GPPMEMBER (TTA)	KR	+82 31 279 4670	hcbang@samsung.com	YES
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Mr. Joong gunn Park	SK Telecom	3GPPMEMBER (TTA)	KR	+82 11 293 8607	gaunny@yahoo.com	YES

Organisation partner representative (ETSI)

Mrs. Andrijana Jurisic	Mobile Competence Centre		FR	+33 4 92 94 43 09	andrijana.jurisic@etsi.org	YES
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Annex B Output Documents

Approved Change Requests for R99 WI CAMEL3

TDoc #	WI	Rel	Title	Spec	CR #	Cat	Rev	Version	Conclusion
N2-030275	CAMEL3	R99	Behavior of HLR upon location updating in CAMEL Phase 3	23.078	581	F	1	3.G.0	approved
N2-030276	CAMEL3	Rel-4	Behavior of HLR upon location updating in CAMEL Phase 3	23.078	582	A	1	4.8.0	approved

Approved Change Requests for Release 5 WI CAMEL4

TDoc #	WI	Rel	Title	Spec	CR	Cat	Rev	Versio	Conclusion
N2-030193	CAMEL4	Rel-5	Removal of SCI Operation from NC call CAP syntax	29.078	308	F		5.3.0	approved
N2-030283	CAMEL4	Rel-5	Correction to IPSSPCapabilities ASN.1 syntax	29.078	309	F	1	5.3.0	approved
N2-030195	CAMEL4	Rel-5	Removing UnknownLegId Error from DFCWA	29.078	310	F		5.3.0	approved
N2-030284	CAMEL4	Rel-5	Removing DFCWA from assisting gsmSSF dialogue	29.078	311	F	1	5.3.0	approved
N2-030308	CAMEL4	Rel-5	Correction to SplitLeg pre-conditions	29.078	312	F	1	5.3.0	approved
N2-030315	CAMEL4	Rel-5	Health warning for Calling Party Number length in IDP SMS	29.078	314	F	2	5.3.0	approved
N2-030243	CAMEL4	Rel-5	ASN.1 syntax basic corrections	29.078	321	F		5.3.0	approved
N2-030208	CAMEL4	Rel-5	DP arming requirement for NP calls	29.078	323	F		5.3.0	approved
N2-030314	CAMEL4	Rel-5	ASN.1 change for Calling Party Number length in IDP SMS	29.078	324	F	2	5.3.0	approved
N2-030293	CAMEL4	Rel-5	Implementing and handling of the Outstanding Request Counter	23.078	486	F	6	5.3.0	approved
N2-030300	CAMEL4	Rel-5	Correction to MAP PRN and to MAP SRI	23.078	554		2	5.3.0	approved
N2-030306	CAMEL4	Rel-5	Removal of ENC disarming from SDL	23.078	555	F	1	5.3.0	approved
N2-030186	CAMEL4	Rel-5	Correction to assisting gsmSSF	23.078	556	F		5.3.0	approved
N2-030309	CAMEL4	Rel-5	Correction to Destination Routeing Address in ICA	23.078	559	F	1	5.3.0	approved

N2-030282	CAMEL4	Rel-5	Default value for Domain Indicator in ATI IF	23.078	560	F	1	5.3.0	approved
N2-030312	CAMEL4	Rel-5	Correction to Cancel IF	23.078	561	F	2	5.3.0	approved
N2-030192	CAMEL4	Rel-5	Correction to Specialized Resource Report IF	23.078	562	F		5.3.0	approved
N2-030286	CAMEL4	Rel-5	Reference to ITU-T timer for default No_Answer timer	23.078	563	F	1	5.3.0	approved
N2-030305	CAMEL4	Rel-5	Correction to Reset Timer handling in CS_gsmSSF	23.078	564	F	1	5.3.0	approved
N2-030207	CAMEL4	Rel-5	TC-ABORT shall not cause "same signal" output in GPRS dialogue handler	23.078	565	F		5.3.0	approved
N2-030209	CAMEL4	Rel-5	Adding of TIF-CSI into CAMEL stage 2 MAP-ISD for Call Deflection	23.078	567	F		5.3.0	approved
N2-030289	CAMEL4	Rel-5	Receiving Int_CWA after reporting Abandon	23.078	572	F	1	5.3.0	approved
N2-030232	CAMEL4	Rel-5	Correction to TC Establishment procedure	23.078	576	F		5.3.0	approved
N2-030254	CAMEL4	Rel-5	VLR number in ERB is not needed	23.078	585	F		5.3.0	approved
N2-030255	CAMEL4	Rel-5	Removal of Int_CWA in Process CAMEL_T_CHANGE_OF_PO	23.078	586	F		5.3.0	approved
N2-030256	CAMEL4	Rel-5	SRI Handling and CAMEL phase 4	23.078	587	F		5.3.0	approved
N2-030277	CAMEL4	Rel-5	Behavior of HLR upon location updating in CAMEL Phase 4	23.078	593	F		5.3.0	approved
N2-030285	CAMEL4	Rel-5	Inclusion of DFC IF for assisting gsmSSF	23.078	594	F		5.3.0	approved
N2-030287	CAMEL4	Rel-5	Replacing DP numbers by DP names	23.078	596	F		5.3.0	approved

Approved Change Requests for Release 5 WI IMS-CAMEL

TDoc #	WI	Rel	Title	Type	Spec	CR	C	Rev	Version	Conclusion
N2-030302	IMS-CAMEL	Rel-5	Incorrect list of TDPs listed for O-IM-CSI	CR	23.278	40	F	1	5.2.0	approved
N2-030261	IMS-CAMEL	Rel-5	Corrections to process IM_SSF	CR	23.278	41	F		5.2.0	approved
N2-030262	IMS-CAMEL	Rel-5	Redundant check for Final_Response_Received in Disconnect procedures.	CR	23.278	42	F		5.2.0	approved

Annex C List of Documents

TDoc #	Type	Title	Source	WI	Spec	CR	Rev	Cat	Rel	Version
N2-030176	Agenda	Agenda	CN2 Chairman							
N2-030177	Agenda	Allocation of documents to agenda item	CN2 Chairman							
N2-030178	Report	CN2#28 Draft meeting report v1.2.0	MCC							
N2-030179	Report	Draft meeting report from CN2 AdHoc meeting on Enhanced Dialed Services	MCC							
N2-030180	Report	CN#19 Draft meeting report	MCC							
N2-030181	LS IN	LS on MNP for Pre-paid Subscribers	CN4							
N2-030182	LS IN	LS on CAMEL support for the Presence Service	SA2							
N2-030183	Work Plan	Latest version of the work plan	MCC							
N2-030184	CR	Correction to MAP PRN and to MAP SRI		CAMEL4	23.078	554			Rel-5	5.3.0
N2-030185	CR	Removal of ENC disarming from SDL	Ericsson	CAMEL4	23.078	555		F	Rel-5	5.3.0
N2-030186	CR	Correction to assisting gsmSSF	Ericsson	CAMEL4	23.078	556		F	Rel-5	5.3.0
N2-030187	CR	Correction to Charge Indicator	Ericsson	CAMEL4	23.078	557		F	Rel-5	5.3.0
N2-030188	CR	Correction to partial implementation of CAMEL4	Ericsson	CAMEL4	23.078	558		F	Rel-5	5.3.0
N2-030189	CR	Correction to Destination Routeing Address in ICA	Ericsson	CAMEL4	23.078	559		F	Rel-5	5.3.0
N2-030190	CR	Default value for Domain Indicator in ATI IF	Ericsson	CAMEL4	23.078	560		F	Rel-5	5.3.0
N2-030191	CR	Correction to Cancel IF	Ericsson	CAMEL4	23.078	561		F	Rel-5	5.3.0
N2-030192	CR	Correction to Specialized Resource Report IF	Ericsson	CAMEL4	23.078	562		F	Rel-5	5.3.0
N2-030193	CR	Removal of SCI Operation from NC call CAP syntax	Ericsson	CAMEL4	29.078	308		F	Rel-5	5.3.0

N2-030194	CR	Correction to IPSSPCapabilities ASN.1 syntax	Ericsson	CAMEL4	29.078	309		F	Rel-5	5.3.0
N2-030195	CR	Removing UnknownLegId Error from DFCWA	Ericsson	CAMEL4	29.078	310		F	Rel-5	5.3.0
N2-030196	CR	Removing DFCWA from assisting gsmSSF dialogue	Ericsson	CAMEL4	29.078	311		F	Rel-5	5.3.0
N2-030197	CR	Correction to SplitLeg pre-conditions	Ericsson	CAMEL4	29.078	312		F	Rel-5	5.3.0
N2-030198	CR	Correction to parameter name in Connect Operation	Ericsson	CAMEL4	29.078	313		F	Rel-5	5.3.0
N2-030199	CR	Reference to ITU-T timer for default No_Answer timer	Ericsson	CAMEL4	23.078	563		F	Rel-5	5.3.0
N2-030200	CR	Health warning for Calling Party Number length in IDP SMS	Ericsson	CAMEL4	29.078	314		F	Rel-5	5.3.0
N2-030201	CR	Correction to Reset Timer handling in CS_gsmSSF	Ericsson	CAMEL4	23.078	564		F	Rel-5	5.3.0
N2-030202	CR	Release Result from CAMEL_MT_GMSC_Notify_CF	Vodafone	CAMEL4	23.018	122		F	Rel-5	5.6.0
N2-030203	WID	Enhancement of dialled service for CAMEL.	Rapporteur	EDCAMEL						
N2-030204	DISC	CAMEL open issue list	CN2 chairman							
N2-030205	DISC	Recorded CAMEL4 decisions	CN2 chairman							
N2-030206	CR	23.078-CR553 Collective CR for Rel-6 Enhanced Dialled Services	CN2 chairman	EDCAMEL	23.078	553		B	Rel-6	5.3.0
N2-030207	CR	TC-ABORT shall not cause "same signal" output in GPRS dialogue handler	Nokia	CAMEL4	23.078	565		F	Rel-5	5.3.0
N2-030208	CR	DP arming requirement for NP calls	Nokia	CAMEL4	29.078	323		F	Rel-5	5.3.0
N2-030209	CR	Adding of TIF-CSI into CAMEL stage 2 MAP-ISD for Call Deflection	Nokia	CAMEL4	23.078	567		F	Rel-5	5.3.0
N2-030210	DISC	Response to N2-030158 : Handling of Outstanding Requests for Legs and Call Segments	Nokia	CAMEL4						
N2-030211	CR	CLIR/CLIP interaction with CSE initiated calls	Nokia	CAMEL4	22.078			F	Rel-5	5.8.0
N2-030212	CR	CLIR/CLIP interaction with CSE initiated calls	Nokia	CAMEL4	23.078	568		F	Rel-5	5.3.0
N2-030213	DISC	Discussion paper about CAMEL4 parallel warning tones	Nokia	CAMEL4						

N2-030214	CR	Warning note about legal interception in SCP initiated calls	Nokia	CAMEL4	23.078	569		F	Rel-5	5.3.0
N2-030215	CR	CPH charging impacts on the CDRs	Nokia	CAMEL4	23.078	570		F	Rel-5	5.3.0
N2-030216	CR	CPH charging impacts on the CDRs	Nokia	CAMEL4	32.205			F	Rel-5	5.3.0
N2-030217	CR	Correction to interaction between ORLCF and forwarding notification	Ericsson	CAMEL4	23.079	25	2	F	Rel-5	5.2.0
N2-030218	CR	Stopping No_Answer timer in the case of forwarding notification	Ericsson	CAMEL4	23.018	115	1	F	Rel-5	5.6.0
N2-030219	CR	Correction to naming of PRN parameter	Ericsson	CAMEL4	29.002			F	Rel-5	5.5.0
N2-030220	CR	Correction to Procedure Descriptions (Dialogue Handling)	Ericsson	CAMEL4	29.078	315		F	Rel-5	5.3.0
N2-030221	CR	Correction to Procedure Descriptions (Charging)	Ericsson	CAMEL4	29.078	316		F	Rel-5	5.3.0
N2-030222	CR	Correction to Procedure Descriptions (Call Processing)	Ericsson	CAMEL4	29.078	317		F	Rel-5	5.3.0
N2-030223	CR	Correction to Procedure Descriptions (User Interaction)	Ericsson	CAMEL4	29.078	318		F	Rel-5	5.3.0
N2-030224	CR	Correction to Procedure Descriptions (Call Party Handling)	Ericsson	CAMEL4	29.078	319		F	Rel-5	5.3.0
N2-030225	other	Candidature for CN2 Vice Chair	Ericsson							
N2-030226	LS IN	Liaison statement on "Signalling Requirements for IP-QOS"	ITU-T SG 11							
N2-030227	CR	MSC behaviour in the case of SSF invocation failure	Ericsson	CAMEL4	23.078	571		F	Rel-5	5.3.0
N2-030228	CR	Receiving Int_CWA after reporting Abandon	Ericsson	CAMEL4	23.078	572		F	Rel-5	5.3.0
N2-030229	CR	Reporting Disconnect (leg n) after Disconnect (leg 1)	Ericsson	CAMEL4	23.078	573		F	Rel-5	5.3.0
N2-030230	CR	Correction to User Interaction handling in MSC	Ericsson	CAMEL4	23.078	574		F	Rel-5	5.3.0
N2-030231	CR	Correction to procedure CAMEL_ICA_MSC	Ericsson	CAMEL4	23.078	575		F	Rel-5	5.3.0
N2-030232	CR	Correction to TC Establishment procedure	Ericsson	CAMEL4	23.078	576		F	Rel-5	5.3.0
N2-030233	CR	Correction to Disconnect Forward Connection handling	Ericsson	CAMEL4	23.078	577		F	Rel-5	5.3.0

N2-030234	CR	Reflecting default Leg Id for CWA in CS_gsmSSF	Ericsson	CAMEL4	23.078	578		F	Rel-5	5.3.0
N2-030235	CR	Enhancements of dialled services procedures in MO and MF calls	Samung Electronics , SK	EDCAME L	23.078	579		B	Rel-6	5.3.0
N2-030236	CR	Implementation of enhanced dialled service	Samung Electronics , SK	EDCAME L	29.078	320		B	Rel-6	5.3.0
N2-030237	CR	Handling of partial implementation for enhanced dialled service	Samung Electronics , SK	EDCAME L	29.002			B	Rel-6	6.1.0
N2-030238	CR	Enhancements of dialled services procedures in MO and MF calls	Samung Electronics , SK	EDCAME L	23.018			B	Rel-6	5.6.0
N2-030239	CR	Implementing and handling of the Outstanding Request Counter	Alcatel	CAMEL4	23.078	486	5	F	Rel-5	5.3.0
N2-030240	CR	Handling of Connect operation with and without LegID	Alcatel	CAMEL4	23.078	523	2	F	Rel-5	5.3.0
N2-030241	CR	Handling of Information Flows with absent LegID and CS ID	Alcatel	CAMEL4	23.078	524	1	F	Rel-5	5.3.0
N2-030242	CR	No concurrent playing of tones to the same leg or call segment	Alcatel	CAMEL4	23.078	525	1	F	Rel-5	5.3.0
N2-030243	CR	ASN.1 syntax basic corrections	Alcatel	CAMEL4	29.078	321		F	Rel-5	5.3.0
N2-030244	CR	Re-connect for Enhanced Dialled Services	Alcatel	EDCAME L	23.078	580		F	Rel-6	5.3.0
N2-030245	CR	Enhancements for the Partial Implementation for Enhanced Dialled Services	Alcatel	EDCAME L	29.002	525		B	Rel-6	6.1.0
N2-030246	CR(INF O)	Change of position procedures armed with criteria	Siemens AG	CAMEL4	22.078			F	Rel-5	5.A.0
N2-030247	CR(INF O)	Change of position procedures armed with criteria	Siemens AG	CAMEL4	23.078			F	Rel-5	5.3.0
N2-030248	CR(INF O)	Change of position procedures armed with criteria	Siemens AG	CAMEL4	29.078			F	Rel-5	5.3.0
N2-030249	LS to SA1	(Proposed) LS on change of position procedures	Siemens AG							
N2-030250	CR	Behavior of HLR upon location updating in CAMEL Phase 3	Siemens AG	CAMEL3	23.078	581		F	R99	3.G.0
N2-030251	CR	Behavior of HLR upon location updating in CAMEL Phase 3	Siemens AG	CAMEL3	23.078	582		A	Rel-4	4.8.0
N2-030252	CR	Behavior of HLR upon location updating in CAMEL Phase 4	Siemens AG	CAMEL4	23.078	583		F	Rel-5	5.3.0
N2-030253	CR	Direction change of incoming message Answer	Siemens AG	CAMEL4	23.078	584		F	Rel-5	5.3.0

N2-030254	CR	VLR number in ERB is not needed	Siemens AG	CAMEL4	23.078	585		F	Rel-5	5.3.0
N2-030255	CR	Removal of Int_CWA in Process CAMEL_T_CHANGE_OF_POSITION_MSC	Siemens AG	CAMEL4	23.078	586		F	Rel-5	5.3.0
N2-030256	CR	SRI Handling and CAMEL phase 4	Alcatel	CAMEL4	23.078	587		F	Rel-5	5.3.0
N2-030257	CR	Misalignment between 23.078 and 29.078 about AC and ACR	Alcatel	CAMEL4	23.078	588			Rel-5	5.3.0
N2-030258	CR	Interworking between EDS and DP-O-Abandon handling	Alcatel	EDCAMEL	23.078	589		F	Rel-6	5.3.0
N2-030259	CR	EDS and TDP-RouteSelectFailure	Alcatel	EDCAMEL	23.078	590		F	Rel-6	5.3.0
N2-030260	CR	Incorrect list of TDPs listed for O-IM-CSI	Lucent Technologies	IMS-CAMEL	23.278	40		F	Rel-5	5.2.0
N2-030261	CR	Corrections to process IM_SSF	Lucent Technologies	IMS-CAMEL	23.278	41		F	Rel-5	5.2.0
N2-030262	CR	Redundant check for Final_Response_Received in Disconnect procedures.	Lucent Technologies	IMS-CAMEL	23.278	42		F	Rel-5	5.2.0
N2-030263	CR	Incorrect handling of failure SIP response for MT	Lucent Technologies	IMS-CAMEL	23.278	43		F	Rel-5	5.2.0
N2-030264	DISC	Handling of re-connected calls in IM-SSF	Lucent Technologies	IMS-CAMEL	23.278			F	Rel-5	5.2.0
N2-030265	CR	Definition of Leg Id for ICA - Leg Id shall be 3 or higher	Ericsson	CAMEL4	29.078	322		F	Rel-5	5.3.0
N2-030266	CR	Incorrect Charging with MNP	Ericsson	CAMEL4	23.066	25		F	Rel-5	5.0.0
N2-030267	CR	Incorrect Charging with MNP	Ericsson	CAMEL4	29.002	615		F	Rel-5	5.5.0
N2-030268	CR	Using ATI for Mobile Number Portability	Ericsson	CAMEL4	23.078	591		F	Rel-5	5.3.0
N2-030269	other	Template for the OMA overlap discussion	TSG-T Vice Chair							
N2-030270	CR	aChChargingAddress in ApplyCharging/ApplyChargingReport	Nokia	CAMEL4	23.078	592		F	Rel-5	5.3.0
N2-030271	Calendar	Proposed Meeting schedule 2004 (CN4)	CN2 Chairman							
N2-030272	other	Candidature for CN2 Vice Chair	Ericsson							
N2-030273	LS IN	Clarification on MNP for Pre-paid Subscribers	SA1							

N2-030274	other	OMA overlap discussion Template - response from CN2	CN2 Chairman							
N2-030275	CR	Behavior of HLR upon location updating in CAMEL Phase 3	Siemens AG	CAMEL3	23.078	581	1	F	R99	3.G.0
N2-030276	CR	Behavior of HLR upon location updating in CAMEL Phase 3	Siemens AG	CAMEL3	23.078	582	1	A	Rel-4	4.8.0
N2-030277	CR	Behavior of HLR upon location updating in CAMEL Phase 4	T-Mobil	CAMEL4	23.078	593		F	Rel-5	5.3.0
N2-030278	DISC	CAMEL open issue list	CN2 chairman							
N2-030279	DISC	Recorded CAMEL4 decisions	CN2 chairman							
N2-030280	CR	Correction to Charge Indicator	Ericsson	CAMEL4	23.078	557	1	F	Rel-5	5.3.0
N2-030281	Tdoc list	CN2/CN4 Joint meeting Tdoc list	CN2 Chairman							
N2-030282	CR	Default value for Domain Indicator in ATI IF	Ericsson	CAMEL4	23.078	560	1	F	Rel-5	5.3.0
N2-030283	CR	Correction to IPSSPCapabilities ASN.1 syntax	Ericsson	CAMEL4	29.078	309	1	F	Rel-5	5.3.0
N2-030284	CR	Removing DFCWA from assisting gsmSSF dialogue	Ericsson	CAMEL4	29.078	311	1	F	Rel-5	5.3.0
N2-030285	CR	Inclusion of DFC IF for assisting gsmSSF	Alcatel and Ericsson	CAMEL4	23.078	594		F	Rel-5	5.3.0
N2-030286	CR	Reference to ITU-T timer for default No_Answer timer	Ericsson	CAMEL4	23.078	563	1	F	Rel-5	5.3.0
N2-030287	CR	Replacing DP numbers by DP names	Siemens	CAMEL4	23.078	596		F	Rel-5	5.3.0
N2-030288	CR	MSC behaviour in the case of SSF invocation failure	Ericsson	CAMEL4	23.078	571	1	F	Rel-5	5.3.0
N2-030289	CR	Receiving Int_CWA after reporting Abandon	Ericsson	CAMEL4	23.078	572	1	F	Rel-5	5.3.0
N2-030290	CR	Handling of partial implementation for enhanced dialled service	Samung Electronics , SK	EDCAMEL	29.002			B	Rel-6	6.1.0
N2-030291	CR	Correction to User Interaction handling in MSC	Ericsson	CAMEL4	23.078	574	1	F	Rel-5	5.3.0
N2-030292	CR	Correction to Disconnect Forward Connection handling	Ericsson	CAMEL4	23.078	577	1	F	Rel-5	5.3.0
N2-030293	CR	Implementing and handling of the Outstanding Request Counter	Alcatel	CAMEL4	23.078	486	6	F	Rel-5	5.3.0

N2-030294	disc	Discussion document on SCUDIF	Vodafone							
N2-030295	Tdoc list	Tdoc list for CN3_CN4_CN2 Joint meeting	CN2 chairman							
N2-030296	CR	Correction to MAP PRN and to MAP SRI	Ericsson	CAMEL4	23.078	554	1		Rel-5	5.3.0
N2-030297	CR	Correction to naming of PRN parameter	Ericsson	CAMEL4	29.002		1	F	Rel-5	5.5.0
N2-030298	CR	Correction to interaction between ORLCF and forwarding notification	Ericsson	CAMEL4	23.079	25	3	F	Rel-5	5.2.0
N2-030299	CR	Correction to naming of PRN parameter	Ericsson	CAMEL4	29.002		2	F	Rel-5	5.5.0
N2-030300	CR	Correction to MAP PRN and to MAP SRI	Ericsson	CAMEL4	23.078	554	2		Rel-5	5.3.0
N2-030301	CR	Stopping No_Answer timer in the case of forwarding notification	Ericsson	CAMEL4	23.018	115	2	F	Rel-5	5.6.0
N2-030302	CR	Incorrect list of TDPs listed for O-IM-CSI	Lucent Technologies	IMS-CAMEL	23.278	40	1	F	Rel-5	5.2.0
N2-030303	CR	Health warning for Calling Party Number length in IDP SMS	Ericsson	CAMEL4	29.078	314	1	F	Rel-5	5.3.0
N2-030304	CR	ASN.1 change for Calling Party Number length in IDP SMS	Ericsson	CAMEL4	29.078	324		F	Rel-5	5.3.0
N2-030305	CR	Correction to Reset Timer handling in CS_gsmSSF	Ericsson	CAMEL4	23.078	564	1	F	Rel-5	5.3.0
N2-030306	CR	Removal of ENC disarming from SDL	Ericsson	CAMEL4	23.078	555	1	F	Rel-5	5.3.0
N2-030307	CR	Correction to Cancel IF	Ericsson	CAMEL4	23.078	561	1	F	Rel-5	5.3.0
N2-030308	CR	Correction to SplitLeg pre-conditions	Ericsson	CAMEL4	29.078	312	1	F	Rel-5	5.3.0
N2-030309	CR	Correction to Destination Routeing Address in ICA	Ericsson	CAMEL4	23.078	559	1	F	Rel-5	5.3.0
N2-030310	CR	Enhancements of dialled services procedures in MO and MF calls	Samung Electronics, SK	EDCAMEL	23.078	579	1	B	Rel-6	5.3.0
N2-030311	CR	Enhancements of dialled services procedures in MO and MF calls	Samung Electronics, SK	EDCAMEL	23.018		1	B	Rel-6	5.6.0
N2-030312	CR	Correction to Cancel IF	Ericsson	CAMEL4	23.078	561	2	F	Rel-5	5.3.0
N2-030313	CR	ASN.1 change for Calling Party Number length in IDP SMS	Ericsson	CAMEL4	29.078	324	1	F	Rel-5	5.3.0

N2-030314	CR	ASN.1 change for Calling Party Number length in IDP SMS	Ericsson	CAMEL4	29.078	324	2	F	Rel-5	5.3.0
N2-030315	CR	Health warning for Calling Party Number length in IDP SMS	Ericsson	CAMEL4	29.078	314	2	F	Rel-5	5.3.0