3GPP TSG CN Plenary Meeting #14
Japan, Kyoto, 12th – 14th December 2001

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Source: TSG CN WG2

Title: CN2#21 Draft Meeting Report, version 1.0.0

Agenda item: 6.2.1

Document for: INFORMATION

DRAFT Meeting Report, version 1.0.0

TSG CN WG2#21
Cancun, Mexico

15 – 19 October, 2001

Chairman: Keijo Palviainen (Nokia)

MCC support: Andrijana Jurisic (ETSI)

Hosts: North American friends of the 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_21_Cancun/Docs

1 Opening of the meeting and approval of the agenda

N2-010859 : CN2 chairman, Title: Proposed meeting agenda

Discussion :

Conclusion :approved

2 Allocation of documents to agenda items

N2-010860 : CN2 chairman, Title: Allocation of documents to agenda items

Discussion : Document 872 has been revised to 971, document 876 has been revised to 972, document 878 has been revised to 973. Document 920 is withdrawn. Documents 956 and 957 have been distributed with cover sheet and those will be distributed during the meeting. In section 9.2 new document 974 is added.

Conclusion : approved

3 Reports

N2-010861: MCC, Title: Draft Meeting Report from CN2#20, Brighton

Discussion : Comments are incorporated to version 1 of the report.

Conclusion: noted

4 Input Liaison Statements

N2-010862 : CN4, Type: LS IN , Title: Reply Liaison Statement on Unique GGSN address

Discussion : CN4 wants to inform SA2, SA5 and CN2 that it agreed from R99 onwards on changes in 3GPP TS 29.060 preventing the GGSN address for control plane from being changed in the "Update PDP Context Response" message. This ensures that the GGSN address for control plane will remain unchanged for the lifetime of the PDP context.

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	6.9.1	N2	LANTELME, Isabelle
TS	03.78	CAMEL Phase 2; Stage 2	R1998	7.6.1	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	3.10.0	N2	HOMANN, Christian
TS	23.078	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3 - Stage 2	Rel-4	4.2.0	N2	HOMANN, Christian
TS	29.078	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) specification	R1999	3.9.0	N2	NOLDUS, Rogier
TS	29.078	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) specification	Rel-4	4.2.0	N2	NOLDUS, Rogier
Draft	23.078	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 4 - Stage 2	Rel-5	5D.11.1	N2	SUMIO, Myagava
Draft	29.078	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase; CAMEL Application Part (CAP) specification	Rel-5	d5.5.0	N2	NOLDUS, Rogier

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

N2-010863 : MCC, Type: Work plan, Title: Latest version of the Work plan

Discussion : Progress of the items are adjusted according to the work assumption in Dresden meeting. Clean version of the WID that was approved on CN plenary in Beijing is in document NP-010541. The CN2 work tasks have been discussed one by one and document N2-010864 is created in parallel, based on the discussionl.

Conclusion: noted

N2-010864 : CN2 Chairman, Type: Work plan Comments on the progress of the CAMEL4 work

Discussion : The document contains CN2 conclusions on progress of the CAMEL4 work . Those conclusions will be incorporated in the latest version of the work plan that will be presented on CN#14.

Conclusion: noted

The Work Plan will be updated for the CN#14 Plenary meeting according to theconclusions in the following table:

Title	3GPP release	Notes of progress
CAP over IP	**REL-4**	CN2 work is completed.
CAMEL4 / Stage 1	**REL-5**	Not a CN2 issue.
CAMEL4 / Interactions with Optimal Routing	**REL-5**	Complete
CAMEL4 / Call Party Handling	**REL-5**	on schedule
CAMEL4 / Mid call procedure for MO and MT calls	**REL-5**	on schedule
CAMEL4 / CAMEL for IMS	**REL-5**	Skeleton of Stage 2 (23.278) is 50% completed. Totally 30% completed.
CAMEL4 / CAMEL control over MT SMS	**REL-5**	Complete
CAMEL4 / Inclusion of flexible tone injection	**REL-5**	on schedule
CAMEL4 / Charging notification to the CSE	**REL-5**	Completion rate around 20%.
Enhancements of dialled services	**REL-5**	Completion rate around 10%.
Provision of location information of called subscriber (Alerting phase)	**REL-5**	Complete
Notification of GPRS mobility management to CSE	**REL-5**	on schedule
Inclusion of ODB data in the CSE-HLR interface.	**REL-5**	on schedule
Location information during an ongoing call (Handover DP)	**REL-5**	No progress. Completion rate around 50%.
GPRS AnyTimeInterrogation	**REL-5**	on schedule

Initiator of the Enhanced Dialled Services and Charging Notification to the CSE has not participated latest meetings (CN2#20 and CN2#21).

5.5 Vice Chairman election

N2-010885 : Vodafone, Title: Candidature for the Vice Chairman position

Discussion :The document contains Vodafone's letter of support for the nomination of Ruth Hewson for the3GPP TSG CN2 Vice Chairmen position and the short CV of the candidate. This was the only candidature for the Vice Chairman position.

Conclusion: Ruth Hewson was elected for a 3GPP TSG CN2 Vice Chairman position. CN2 congratulated to Ruth.

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

N2-010893 :TS 29.078, R99, Ericsson, Type: CR, CR#213, Title: Correction to IMPORT statements

Discussion : The CR proposes to remove IMPORT definitions from section 5.1 and to correct IMPORT definitions in section 6.1.1 (CallingPartyCategory, HighLayerCompatibility and RedirectionInformation). CAMEL2 uses the correct import statement. Rel-4 mirror CR is in document 981.

Conclusion :approved

N2-010981:TS 29.078, Rel-4, Ericsson, Type: CR, CR#222, Title: Correction to IMPORT statements

Discussion :

Conclusion :approved without presentation

N2-010901 : TS 29.078, R99, Ericsson, Type: CR, CR#216, Title: Correction to error handling description for Initial DP operations

Discussion : CR introduces correction to error handling description of InitialDPGPRS and InitialDPSMS There is no change in external interface in this CR (outside of the SGSN/MSC). The CR is about SGSN internal work share (between TC and SSF). The reason for change needs to be enhanced.

Conclusion :revised to 982

N2-010982 : TS 29.078, R99, Ericsson, Type: CR, CR#216r1, Title: Correction to error handling description for Initial DP operations

Discussion :

Conclusion :approved without presentation

N2-010983 : TS 29.078, Rel-4, Ericsson, Type: CR, CR#223, Title: Correction to error handling description for Initial DP operations

Discussion :

Conclusion :approved without presentation

N2-010907 : TS 29.078, R99, Ericsson, Type: CR, CR#218, Title: The use of "White TCAP" shall be mandated for CAP

Discussion : CR specifies that the inclusion of the Application-Context name is mandatory for TC-Begin request primitive; removes a reference to the Application Context negotiation mechanism from TS 29.078 (as it is not used by CAP) and corrects the table in section 12-1 in order to list complete set of CAP interfaces.

“IN CS-2” column was never introduced via a CR (page 5), therefore should be removed from the table. AC negotiation was also introduced accidentally in the CAMEL3 drafting phase.

In table “Minimum TC requirements for CAP interfaces”, gprsSSF and smsSSF should be introduced as well.

White book TCAP has dialogue portion, conveys AC name. “AC negotiation may not be supported in all PE and/or all networks.” should be removed from the table.

Conclusion :revised to 984

N2-010984 : TS 29.078, R99, Ericsson, Type: CR, CR#218r1, Title: The use of "White TCAP" shall be mandated for CAP

Discussion :

Conclusion :approved without presentation

N2-010985: TS 29.078, Rel-4, Ericsson, Type: CR, CR#224, Title: The use of "White TCAP" shall be mandated for CAP

Discussion :

Conclusion :approved without presentation

N2-010955 : TS 29.078, R99, Ericsson, Type: CR, CR#220, Title: Error handling for sequential TCAP Operation components

Discussion : The document was not delived before Wednesday deadline.

Conclusion :postponed

N2-010968 : TS 22.078, R99, Alcatel, Title: Alignment of tables A.1 and A.2 with stage 2

Discussion: The CR aligns tables “Information provided to the CSE” (A1) and table “Information sent by the CSE” (A2). Unsuccessful call establishment is combined for MT and VT, and has the value 2 for example for Called party number, but VT is available only for CAMEL phase 3 onwards. Columns for MT and VT should be separated for incoming call request procedure, unsuccessful call establishment and Call disconnection procedure.

Conclusion: revised to 988

N2-010988 : TS 22.078, R99, Alcatel, Type: CR, Title: Alignment of tables A.1 and A.2 with stage 2

Discussion:

Conclusion: endorsed by CN2 (without presentation), will be sent to SA1 as a source CN2

N2-010989 : TS 22.078, Rel-4, Alcatel, Type: CR, Title: Alignment of tables A.1 and A.2 with stage 2

Discussion: This is a Rel-4 mirror CR todocument 988.

Conclusion: endorsed by CN2 (without presentation), will be sent to SA1 as a source CN2

7.2 CAMEL3/ATM&ATSI

N2-010886: TS 23.018, R99, France Telecom, Type: CR, Title: Corrections in the ATI mechanism description

Discussion: The Active Location Retrieval procedure allows the gsmSCF to know the location of the MS with the accuracy of the cell ID for GSM or SAI for UMTS. With the current R99 specification 23.018 (v 3.9.0), it is possible to retrieve the current SAI in UMTS in the case there is no MS connection. RANAP message Location Reporting Control (TS 25.413) allows the CN (SGSN or MSC) to retrieve the current SAI from the RNC if an MS connection exists. This CR proposes to correct the handling specified in the 23.018. It proposes to add the SAI in "Location Information Received", to add the SAI case in the part concerning the interrogation to the SGSN and to allow the MSC to send a "Location Reporting Control" to retrieve the SAI from the RNC (SDL).

Information is sent via Gs interface. SAI (UMTS) should be changed to Service area ID (UMTS) as used in other places in the document. Procedure name is missing on page 7. In the comment box in page 7, “Signals to/from the right are to/from BSS” should be changed to “to/from BSS/RAN”.

CN2 will consult CN4 about the value to be used in PageNegativeResponse (unknown LAI) on page 7 (SDL).
Conclusion: revised to 975

N2-010975: TS 23.018, R99, France Telecom, Type: CR,r1, Title: Corrections in the ATI mechanism description

Discussion: Handled in CN2-CN4 joint meeting in N4-011385, CR#089r1

Conclusion: Document is revised to N4-011407 (N2-011002)

N2-011002: TS 23.018, R99, France Telecom, Type: CR,r2, Title: Corrections in the ATI mechanism description

Discussion:

Conclusion: endorsed by CN2

N2-010940: TS 23.018, Rel-4, France Telecom, Type: CR, Title: Corrections in the ATI mechanism description

Discussion: postponed to joint meeting, N4-011386, CR#090

Conclusion: revised to N4-011408 on the joint meeting and to N2-011005

N2-011005: TS 23.018, Rel-4, France Telecom, Type: CR, Title: Corrections in the ATI mechanism description

Discussion:

Conclusion: endorsed by CN2

N2-010941: TS 23.018, Rel-5, France Telecom, Type: CR, Title: Corrections in the ATI mechanism description

Discussion:

Conclusion: revised to N2-011006 (N4-011387 revised to N4-011409 on the joint meeting, CR#091)

N2-011006: TS 23.018, Rel-5, France Telecom, Type: CR, Title: Corrections in the ATI mechanism description

Discussion:

Conclusion: endorsed by CN2

N2-010929: 29.002, R99, Alcatel SA , Type: CR, Title: CR Syntax error on notificationToCSE in the ATM result

Discussion: NotificationToCSE is always present as mandatory parameter. Alcatel is proposing that this parameter must be optional. It shall be sent only when the notification to CSE is required for the given subscriber otherwise this parameter shall not be sent.

Conclusion: endorsed, sent to CN4 in N4-011391, CR#361 (Rel-4 mirror CR is in N4-011392, CR#362). Rejected in the joint meeting since Siemens had a technically identical change request.

N2-010930: 29.002, R99, Alcatel SA , Type: CR, Title: Syntax error in the ATM result and ATSI result

Discussion: When the subscriber has not got the subscription "control of barring service", the subscriber is not allowed to activate/deactivate their barring services, so the password and the wrongPasswordAttemptsCounter are not relevant data. In this case these parameters shall not be sent in ATM nor in ATSI result But for the time being, these parameters are mandatory in the ASN-1 description. Alcatel is proposing to put both parameters as optional ("password" and "wrongPasswordAttemptsCounter")

These IEs are also used in HLR-VLR interface. Alcatel's opinion is that changing of these parameters to optional in ASN1should not be tricky as those parameters are still used (as optional). A comment after the parameter might be needed saying that in HLR-VLR interface these parameters are mandatory.

We will discuss this issue in the joint meeting with CN4. Ericsson would like to leave the syntax as it is and define this change in the stage 2.

If the ATM may modify Call Barring data, there is a "password" parameter and SCP should respond with some value which it doesn't have.

These data types are used only in HLR –SCP interface, and CN2 should not have problem with changing those parameters to optional. ***This document was discussed in joint meeting with CN4 in Tdoc N4-011393, CR#363 (Rel-4 mirror CR is in Tdoc N4-011394, CR#364)***

Conclusion: endorsed by CN2, CN4 approved R99 and mirror Rel-4 CR on theCN2-CN4 joint meeting.

N2-010934: TS 29.002, R99, Alcatel SA , Type: CR, Title: Clarification on AnyTimeSubscriptionInterrogation result in case of mutiple SS-Code result

Discussion: Currently, it is allowed for a SCP to request all information related to call forwarding supplementary service (e.g. SS-Code set to "allForwardingSS" or "allCondForwardingSS") or all information related to call barring service e.g. SS-Code set to "allBarringSS" or "barringOfOutgoingCalls" or barringOfIncomingCalls") for a given subscriber.

But information related to one SS-Code is allowed in the response. The modification in this CR is relatied to the AnyTimeSubscriptionInterrogation result in order to allow the sending of several SS-Code, otherwise it's impossible to reply correctly to the ATSI request. The name of the parameter is changed.

New parameters in AnyTimeSubscriptionInterrogationRes should be OPTIONAL.

When we use max number of SS, is it used for different basic service groups or supplementary services? What is max. number of SS codes and max. number of BS codes – has to be verified.

"SS-ForBS-Code" includes SS code. For each SScode there is forwarding feature list and each forwarding feature contains basic service code.

In stage 1, section 13.1, does not specify whether CF SS data should be asked all at once or one by one. SS code could be set as All CF services. The meeting is not yet convinced that this CR is needed.

Joint meeting: We should have in a request only a single value.

Conclusion: noted in the joint meeting (N4-011400)

N2-010931: TS 23.078, R99, Alcatel SA , Type: CR,CR#356, Title: Request of multiple SS-Code changes in the ATM request

Discussion: In the ATM request, it is possible to "activate" all call forwarding SS (CFU and all CFC). In this case (when the request is acceptable : no interaction problems with other Supplementary services) the CFU SS-Status becomes "active and operative" and the CFCs SS-Status become "active and quiescent". But in the ATM result, it is possible to send information related to only ONE SS-Code : so for the time being it is not possible to reply to such request. A similar rational exists relatied to call barring. The proposal in this CR is to allow in the ATM result the sending of the result of call forwarding/barring modifications related to several SS-Code together.

It is not specified clearly in the CR what happens if all CFs/barrings are activated at once. New level of interactions may be present here, because if we activate all CF, it makes conditional call forwardings quiescent. The similar happens if we activate Barring of all outgoing calls, this activation makes other outgoing call barrings quiescent.

It should be checked in supplementary services specifications what kind of interactions exist between certain call forwardings and call barrings. Subscriber can not activate all CF at once. It should be specified what is stored in the HLR for each CF if we activate all CF and this should not be in conflict with supplementary services specifications.

Conclusion: noted on the joint meeting with CN4, N4-011397

N2-010932: TS 29.002, R99, Alcatel SA , Type: CR, Title: Request of multiple SS-Code changes in the ATM request

Discussion: Max number of SS codes should be checked.

Siemens opposes a change in Release 99, but would be prepared to see an enhancement to the Alcatel change for Rel-5, with the constraint that group SS codes are not allowed; only the codes for individual SS.

Alcatel: A single SS code in a request may trigger multiple SS codes in the response. If a change to an SS triggers consequential changes for other SS the consequential changes should be reported using Notify Subscriber Data Change.

Further investigation and discussion in CN2 leads to the result that solution will be based on a change to 23.078.

Conclusion: noted by CN2, postponed on the joint meeting with CN4 (N4-011398)

N2-010935: TS 23.078, R99, Alcatel SA , Type: CR,CR#358, Title: Sending of NoteSubscriberDataModified operation relative to consistent data changes

Discussion: The document handled on CN2-CN4 joint meeting.

Conclusion: noted by CN2 (postponed by joint meeting with CN4 in TdocN4-011401)

N2-010936: 29.002, R99, Alcatel SA , Type: CR, Title: Sending of NoteSubscriberDataModified operation relative to consistent data changes

Discussion: The total maximum for the constant should be number of SS codes multiplied by number of basic service codes.Siemens would like to keep it as it is, Alcatel wants to keep it as a sequence, France Telecom suggests that 29.002 could be as choice, not a sequence. It will be kept as a sequence.

Conclusion: CN2 noted, postponed in the joint meeting N4-011402

N2-010933: TS 23.078, R99, Alcatel SA , Type: CR, CR#357, Title: Clarification on AnyTimeSubscriptionInterrogation result in case of multiple SS-Code

Discussion: According to Siemens this CR is not a correction, but only improvement. This improvement could be done in higher CAMEL phases. Siemens and Nokia has similar opinion that changing of multiple supplementary services at once may be difficult and have interactions with other supplementary services.

Currently there is inconsistency because in the request it is allowed for SCP to request all information related to call forwarding supplementary service or all information related to call barring service for a given subscriber, but information related to only SS-Code is allowed in the response.

When it comes to ATM Nokia prefers Siemens proposal (interrogation of SSs one by one).

Siemens will draft new proposal in Tdoc N2-010978 with CR number 363.

Conclusion: noted on the joint meeting with CN4 in Tdoc N4-011399

N2-010978: TS 23.078, R99, Siemens, Type: CR, CR#363, Title: Clarification: use of SS-Code in ATM, ATSI and NSDC

Discussion: This document has the same reason for change as Alcatel's document, but the proposal is to clarify for ATSI request that only one supplementary service within the category (CF or CB) is allowed. For ATM request it is specified that, if ATM request is used to erase the existing CF data, SS code IE may be set to "allForwardingSS" or "allCondForwardingSS", otherwise this IE shall be set to one of the Call Forwarding supplementary service.

For NSDC is clarified that the IF is sent at each modification of CF or CB data. Proposal is not to use combined SS code, but to allow only one SS feature in Call forwarding and call barring supplementary services for IE SS code.

In Alcatel contribution it is not clear what happens when SCP modifies all call barrings, but one of them is not supported. Unsupported CB feature is set to "not active". In Siemens contribution it is specified that the gsmSCF is assumed to be aware of the unsupported CB supplementary category before this IF is sent, if any.

If multiple CBs are modified, then sending of individual NSDCs may be a problem, they may be inconsistent.

Alcatel proposes to specify which SS codes are allowed in ATM request. Siemens finds this as not essential correction and would not like to do changes in MAP - ASN1 (possibly after ellipsis).

Conclusion: revised to 991

N2-010991: TS 23.078, R99, Siemens, Type: CR, CR#363r1, Title: Clarification: use of SS-Code in ATM, ATSI and NSDC

Discussion:Barring of outgoing calls is a group of individual SS codes. Barring of all outgoing calls, international calls are individual SS codes. When CFU is activated, other call forwardings become "active and quiescent". Siemens sees that in Rel-5 multiple SS-codes could be used, but not the group codes. A separate NSDC may be needed if CFU is activated.

The document is handled in joint meeting with CN4 in document N4-011395. According to Nortel, having consistency between R99, Rel-4 and Rel-5 has higher priority than not making a change to R99 MAP specification.

Siemens, Vodafone, NEC, Ericsson oppose Alcatel's solution and would not like to accept incompatibile MAP changes in R99.

Conclusion: revised to 1018 (The document N4-011395 is noted in joint meeting)

N2-011018: TS 23.078, R99, Siemens, Type: CR, CR#363r2, Title: Clarification: use of SS-Code in ATM, ATSI and NSDC

Discussion: ATSI acknowledgement is copied by mistake to description of SS code for ATM request and ATSI request (copy paste mistake). Wording has to be improved.

Aim of the CR is to limit the values for SS code. The restriction has to be on the value of SS code and not on how many SS codes are sent. The wording should be : "Due to a restriction of the Any Time Modification Request IF, only the following supplementary services codes are allowed for this IE."

In consequences if not approved should be deleted "interworking confusion".

Conclusion: revised to 1024

N2-011024: TS 23.078, R99, Siemens, Type: CR, CR#363r3, Tytle: Clarification: use of SS-Code in ATM, ATSI and NSDC

Discussion: Spelling error has to be corrected.

Conclusion: revised to 1040

N2-011040: TS 23.078, R99, Siemens, Type: CR, CR#363r4, Title: Clarification: use of SS-Code in ATM, ATSI and NSDC

Discussion:

Conclusion: approved without presentation

N2-011041: TS 23.078, Rel-4, Siemens, Type: CR, CR#371, Title: Clarification: use of SS-Code in ATM, ATSI and NSDC

Discussion:

Conclusion: approved without presentation

N2-011003: TS 29.002, R99, Alcatel, Type: CR, Title: Clarification on AnyTimeSubscriptionInterrogation result in case of multiple SS-Code

Discussion : Alcatel is proposing to indicate which supplementary services (SS codes) are allowed to send in the request. This is not a change to ASN.1.

This CR could be a stand alone CR, which means stage 2 is not impacted. Vodafone prefers to define a change to stage 2 rather than to stage3.

If ATSI asks about CFU for all basic services, how would this be reported back for each basic service. ATSI res can report multiple basic service codes.

Meeting agrees to make a change to stage 2. Siemens drafted change to stage 2 but this change does not define which SS codes are allowed.

Siemens will revise their CR to 23.078 (tdoc 1040) on this issue in order to define SS codes that are allowed.

Conclusion: noted

N2-011004: TS 29.002, R99, Alcatel, Type: CR, Title: Clarification on AnyTimeSubscriptionInterrogation result in case of multiple SS-Code

Discussion: It is proposed in this CR to restrict the allowed SS-Code to a single CF type (either CFU or CFB or CFNRc or CFNRy) or to a single CB type (either BAOC or BOIC or BOIC-exHC or BAIC or BOIC-roam). It should be described in the document why this restriction is introduced.

The case where one SS has an impact on multiple supplementary services is not covered in the CR.

Conclusion: noted

N2-010937: 23.078, R99, Alcatel SA , Type: CR,CR#359, Title: Clarification on ATM about simultaneous SS modifications

Discussion: It is proposed to allow the SCF to modify one type of data in one ATM request (namely either CSI, or CB or CF). Modification Request for Call Forwarding SS data, for Call Barring SS data and Modification Request for CAMEL Subscription Information are set to "C1" with condition that one and only one of the three IEs shall be sent. One "conditional" is too much – should be deleted.

Conclusion: revised to 976

N2-010976: TS 23.078, R99, Alcatel SA , Type: CR,CR#359r1, Title: Clarification on ATM about simultaneous SS modifications

Discussion:

Conclusion: approved without presentation

N2-010977: TS 23.078, Rel-4, Alcatel SA , Type: CR,CR#362, Title: Clarification on ATM about simultaneous SS modifications

Discussion:

Conclusion: approved without presentation

7.3 CAMEL3/GPRS

N2-010899 : TS.23.078, R99, Type: CR, CR#351, Ericsson , Title: Reporting QoS changes shall not be restricted to "User initiated" QoS changes

Discussion :Reporting of change of QoS shall be reported independently of the fact who initiated change of QoS, and not only user initiated change of QoS. Network initiated change of QoS is negotiated as well.

Spelling error will be corrected off line.

Conclusion : approved

N2-010990 : TS.23.078, Rel-4, Type: CR, CR#364, Ericsson , Title: Reporting QoS changes shall not be restricted to "User initiated" QoS changes

Discussion :

Conclusion : approved without presentation

N2-010900 : TS 29.078, R99, Type: CR, CR#215, Ericsson, Title: Correction to preconditions for ActivityTestGPRS

Discussion : After Return Result “Activity Test”, SSME should return back to the state in which was before Activity Test (“Idle Management”).

If we have 2 PDP contexts and if we sentd Activity Test for one, the other PDP context may not be impacted. Activity Test is per GPRS reference number, and not per user. Therefore, the wording in the very last sentence in this CR should be changed from “for this subscriber” to “for GPRS dialogue”.

The term U-Abort has been used all-over in the 29.078.

Conclusion :revised to 994

N2-010994 : TS 29.078, R99, Type: CR, CR#215r1, Ericsson, Title: Correction to preconditions for ActivityTestGPRS

Discussion :

Conclusion : approved

N2-011025 : TS 29.078, Rel-4, Type: CR, CR#228, Ericsson, Title: Correction to preconditions for ActivityTestGPRS

Discussion :

Conclusion : approved without presentation

N2-010902 : 29.078, R99, Type: CR, CR#217, Ericsson, Title: Correction to references for the encoding of APN

Discussion : From the procedure description, reference to encoding should be removed (reference to TS 29.060). Data value of the APN is defined in TS 24.008.

Conclusion :revised to 995

N2-010995 : 29.078, R99, Type: CR, CR#217r1, Ericsson, Title: Correction to references for the encoding of APN

Discussion :

Conclusion : approved without presentation

N2-010996 : 29.078, Rel-4, Type: CR, CR#225, Ericsson, Title: Correction to references for the encoding of APN

Discussion :

Conclusion : approved without presentation

N2-010906 : 23.078, R99, Type: CR, CR#352, Ericsson , Title: Guidance to the usage of SCI-GPRS in the case of no support of AoC

Discussion : Specify the behaviour of the gprsSSF in the case that SCI-GPRS is sent to an SGSN that does not support AoC or SCI-GPRS is sent for a subscriber that does not have a subscription to AoC SS

If the subscriber is not provisioned with the GSM Advice of Charge supplementary service or the VPLMN does not support this service, then no e-parameters shall be sent to the MS and no error due to this fact shall be sent back to the gsmSCF.

In Initial DP GPRS IF there is an indication about the SGSN support of AoC service, but there is no indication whether subscriber is subscribed to AoC service.

SGSN should be aligned with circuit switched behaviour ifsubscriber is not subscribed with AoC service. However, since Initial DP GPRS has an indicator about AoC support, it was decided that the CSE shall not send e-parameters if the SGSN does not support AoC. The SGSN behavior in the error case is left unspecified.

Conclusion: revised to 997

N2-010997 : 23.078, R99, Type: CR, CR#352r1, Ericsson , Title: Guidance to the usage of SCI-GPRS in the case of no support of AoC

Discussion:

Conclusion: approved

N2-011026 : 23.078, Rel-4, Type: CR, CR#369, Ericsson , Title: Guidance to the usage of SCI-GPRS in the case of no support of AoC

Discussion: This is the Rel-4 copy of the CR 352r1.

Conclusion: approved

N2-010921 : 23.078, R99, Type: CR, CR 354, Ericsson , Title: Correction to GPRS Dialogue Handler

Discussion : The document was not delived before Wednesday deadline.

Conclusion :postponed

N2-010922: TS 29.078, R99, Type: CR, CR #219, Ericsson, Title: Correction to GPRS operation error handling
Discussion : The document was not delivered before Wednesday deadline.

Conclusion : postponed

N2-010944: 23.060, R99, Type: CR, Alcatel, Title: Re-initialisation of the CAMEL GPRS dialogue after a relocation cancel

Discussion : In figure 43a, at the reception of relocation cancel message, procedures C2 and C3 are added to allow the CAMEL GPRS dialogue to continue on the old SGSN because of the relocation failure. Does the picture describe inter SGSN and intra SGSN SRNS relocation cancel? According to France Telecom, the figure covers both cases. This document was already agreed by SA2.

Alcatel will check with S2 experts whether picture that is corrected applies to inter and intra SGSN relocation cancel.

It should be stated clearly that procedures C2 (CAMEL_GPRS_Routeing_Area_Update_Session) and C3 (CAMEL_GPRS_Routeing_Area_Update_Context) are called only if the procedure C1 has been called (if MS is already detached). Procedure C1 treats the PDP context disconnection and the CAMEL GPRS detach on the old SGSN.

Conclusion :revised to986

N2-010986: 23.060, R99, Type: CR,r1 Alcatel, Title: Re-initialisation of the CAMEL GPRS dialogue after a relocation cancel

Discussion : In this CR it is added that, in case of inter SGSN relocation and if the CAMEL procedures for trigger point C1has been performed during the SRNS relocation procedure, C2 and C3 CAMEL procedures shall be performed . C1 should be replaced by procedure name. Revised document should replace the SA2 approved document.

Conclusion : revised to 1013

N2-011013: 23.060, R99, Type: CR,r2 Alcatel, Title: Re-initialisation of the CAMEL GPRS dialogue after a relocation cancel

Discussion :

Conclusion :endorsed without presentation (SA2 approved CRs for R99 and Rel-4 in documents S2-013489 and S2-01350)

N2-010952: 23.060, Rel-4, Type: CR, Alcatel, Title: Re-initialisation of the CAMEL GPRS dialogue after a relocation cancel

Discussion :

Conclusion :revised to 987

N2-010987: 23.060, Rel-4, Type: CR, r1,Alcatel, Title: Re-initialisation of the CAMEL GPRS dialogue after a relocation cancel

Discussion :

Conclusion :revised to 1014

N2-011014: 23.060, Rel-4, Type: CR, r2,Alcatel, Title: Re-initialisation of the CAMEL GPRS dialogue after a relocation cancel

Discussion :

Conclusion :endorsed without presentation

N2-010992: 23.060, R99, Type: CR, Alcatel, Title: CAMEL trigger point C1 for the SRNS relocation procedure

Discussion : The CAMEL trigger point C1 for SRNS relocation procedure is used only in case of inter SGSN SRNS relocation procedure.

In the intra SGSN SRNS relocation procedure, the GPRS dialogue for the GPRS session and the dialogue(s) for each PDP context are kept and change of position for the new RA is reported to the SCP as Event report if RA changes.and if the SCP requested it.

Wording has to be corrected.

Conclusion : revised to 1015

N2-011015 23.060, R99, Type: CR, Alcatel, Title: CAMEL trigger point C1 for the SRNS relocation procedure

Discussion :

Conclusion : endorsed without presentation

N2-010993: 23.060, Rel-4, Type: CR, Alcatel, Title: CAMEL trigger point C1 for the SRNS relocation procedure cancel

Discussion :

Conclusion :revised to 1016

N2-011016: 23.060, Rel-4, Type: CR, Alcatel, Title: CAMEL trigger point C1 for the SRNS relocation procedure cancel

Discussion :

Conclusion : endorsed without presentation

N2-010970: 29.078, R99, Type: CR, CR#221, Ericsson, Title: Correction to GPRS parameters encoding

Discussion :The subcategory is “essential correction”. CN2 will keep the habit of putting subcategory in the cover sheet for R99 and Rel-4 changes. Nokia would like to check correctness of the CR.

The document was not delived before Wednesday deadline.

Conclusion :e-mail approval , deadline for rejection is Friday Dec 7th 23:59 CET. **N2-011045**: 29.078, Rel-4, Type: CR, CR#230, Ericsson, Title: Correction to GPRS parameters encoding

Discussion :

Conclusion :e-mail approval, deadline for rejection is same as for the tdoc 970.

7.4 CAMEL3/MO SMS

7.5 CAMEL3/Call Related

N2-010871 : TS 23.078, R99, Ericsson, Type: CR, CR#345, Title: Correction to Procedure "Handle_AC" (missing check box exit)

Discussion :

Conclusion: approved

N2-010998 : TS 23.078, Rel-4, Ericsson, Type: CR, CR#365, Title: Correction to Procedure "Handle_AC" (missing check box exit)

Discussion :

Conclusion: approved without presentation

N2-010887 : TS 23.078, R99, France Telecom, Type: CR, CR#346, Title: Correction in the Call Information Report/Request operation

Discussion : It is proposed to change Leg ID to Conditional parameter. There is no default value in ASN.1.

Meeting proposes to leave this IE as Mandatory, but to remove the sentence :”When absent, it indicates the 'outgoing' leg created with Connect, Continue or Continue With Argument.” If the parameter is defined as Conditional, condition has to be defined. The 29.078 describes the default value in textual format. Thus, a value is implicitly available for the application.

Conclusion: revised to 999

N2-010999 : TS 23.078, R99, France Telecom, Type: CR, CR#346r1, Title: Correction in the Call Information Report/Request operation

Discussion :

Conclusion: approved without presentation

N2-010942 : TS 23.078, Rel-4, France Telecom, Type: CR,CR#360, Title: Correction in the Call Information Report/Request operation

Discussion : The correct CR number is CR366.

Conclusion: CR# formally rejected, tdoc revised to 1000

N2-011000 : TS 23.078, Rel-4, France Telecom, Type: CR, CR#366, Title: Correction in the Call Information Report/Request operation

Discussion : This is a Rel-4 mirror CR to CR 346r1 in document N2-010999.

Conclusion: approved without presentation

N2-010943: TS 23.078, Rel-5, France Telecom, Type: CR, Title: Correction in the Call Information Report/Request operation

Discussion : Release 5 version of document 999 will be implemented to Rel-5 off line.

Conclusion: noted

N2-010892: TS 29.078, R99, Ericsson, Type: CR, CR#212, Title: ApplyCharging shall be allowed in a control relationship only

Discussion : The CR specifies in section 11.3 that a control relationship shall exist between the gsmSCF and the gsmSSF when sending ApplyCharging (ApplyCharging shall be permissible in a control relationship only).

Conclusion: approved

N2-011007: TS 29.078, Rel-4, Ericsson, Type: CR, CR#226, Title: ApplyCharging shall be allowed in a control relationship only

Discussion :

Conclusion: approved without presentation

N2-010894: TS 29.078, R99, Ericsson, Type: CR, CR#214, Title: Correction to reference for the encoding of Called Party Number

Discussion: The CR introduces change of reference for the encoding of Called Party Number from "ITU-T Q.763" into "ETS 300 356-1".

There was no CR that changed this reference to ITU-T Q.763. The meeting is not aware of the difference in encoding between these two specifications.

Conclusion: approved

N2-011008: TS 29.078, Rel-4, Ericsson, Type: CR, CR#227, Title: Correction to reference for the encoding of Called Party Number

Discussion :

Conclusion: approved without presentation

N2-010895: TS 23.078, R99, Ericsson, Type: CR, CR#347, Title: Tccd shall be stopped in procedure Handle_ACR
Discussion : When the timer Tcp expires, the gsmSSF sends ApplyChargingReport to the SCP and starts timer Tccd. Tccd timer monitors the reception of a subsequent ApplyCharging operation.

This CR is proposing to stop Tccd timer in procedure Handle_ACR before check box "AC pending=true?". Reason is that when Tccd is running, then there is no AC pending at that moment. Tccd can be stopped if it is in active period.

Conclusion: approved

N2-011009: TS 23.078, Rel-4, Ericsson, Type: CR, CR#367, Title: Tccd shall be stopped in procedure Handle_ACR
Discussion :

Conclusion: approved without presentation

N2-010896: TS 23.078, R99, Ericsson, Type: CR, CR#348, Title: Correction to ECT Treatment Indicator description
Discussion : Correct the description of ECT Treatment Indicator for Initial DP in order to apply to "CAMEL subscriber" instead of "calling subscriber".

Conclusion: approved

N2-011010: TS 23.078, Rel-4, Ericsson, Type: CR, CR#368, Title: Correction to ECT Treatment Indicator description
Discussion :

Conclusion: approved without presentation

N2-010897: TS 23.078, R99, Ericsson, Type: CR, CR#349, Title: Correction to process gsmSSF - check for existence of leg 1 at CON and CWA

Discussion :When CAP Connect or Continue with argument comes, Leg 1 should be always available. The parameters in Continue with argument have impact on call handling. CWA check is *not essential* since call is released anyway, Ruth Hewson commented by e-mail. There will be no call handling and this check is not necessary. Nokia and Alcatel agree.

Conclusion: rejected

N2-010898: TS 23.078, R99, Ericsson, Type: CR, CR# 350, Title: ContinueWithArgument shall not be allowed at DP T-Busy and DP T-NoAnswer

Conclusion: The present CR proposes to disallow the sending of CWA when call processing has been suspended at DP T-Busy and DP T-NoAnswer due to conditional call forwarding notification. CR removes the reception of Int_Continue_With_Argument internal signal in procedures CAMEL_MT_GMSC_Notify_CF and CAMEL_MT_VMSC_Notify_CF.

In SDLs is allowed at every DP and 29.078 does not allow CWA in all DPs . This contradiction has to be corrected. We will change 29.078 and reject changes to 23.078.

If we receive at DP busy ContinueWithArgument, a call will be cleared.

Conclusion: rejected

N2-011011: TS 29.078, R99, Ericsson, Type: CR, CR#227, Title: Correction to precondition of ContinueWithArgument

Discussion: Vodafone wants to postpone the CR till Friday morning.Rel-4 mirror CR is in document N2-011039, CR#229

Conclusion: approved

N2-011039: TS 29.078, Rel-4, Ericsson, Type: CR, CR#229, Title: Correction to precondition of ContinueWithArgument

Discussion:

Conclusion: approved without presentation

N2-010908 : TS 23.078, R99, Ericsson, Type: CR, CR# 353, Title Correction to CAP dialogue termination rules
Discussion : The document was not delivered before Wednesday deadline.

Conclusion: postponed

N2-010928: TS 23.078, R99, Alcatel SA , Type: CR,CR#355 Title: Clarification on Connect and ContinueWithArgument about the SII2

Discussion : It is not allowed to a gsmSCF to force the acceptance of a supplementary service (e.g. MPTY) for the ongoing call when this supplementary service is currently restricted.

The CR introduces Clarification on the Connect and ContinueWithArgument related to the ServiceInteractionIndicatorsTwo parameter.

SCP is allowed to restrict the applicability of the parameter. Ericsson supports Alcatel's concern and would like to approve the CR but with improved wording. Reason for change should be improved to describe more detailed what is the reason for change.

Proposed wording for HOLD Treatment Indicator in Connect : "This IE allows the SCP to restrict the usage of HOLD for this call."

Conclusion: revised to 1012

N2-011012: TS 23.078, R99, Alcatel SA , Type: CR,CR#355, Title: Clarification on Connect and ContinueWithArgument about the SII2

Discussion :

Conclusion: approved

N2-011027: TS 23.078, Rel-4, Alcatel SA , Type: CR,CR#370, Title: Clarification on Connect and ContinueWithArgument about the SII2

Discussion :

Conclusion: approved without presentation

N2-010954: TS 23.078, R99, Ericsson, Type: CR, CR#361, Title: Correction to Advice of Charge for MT calls
Discussion : The document was not delivered before Wednesday deadline.

Conclusion: postponed

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

N2-010959: TS 23.078, Rel-5, Rapporteur, Type: TS-INFO, Title: Draft 23.078 V5d.11.1

Discussion : This document will be basis for the next draft version . Concerning the T-Mobil document, the rapporteur put in a note that a refference is missing. It has been agreed that all CRs that contain changes to SDL, have to have separate SDL source file, for future meetings, including CRs for earlier releases..

Conclusion: noted

N2-010957: TS 29.078, Rel-5, Rapporteur , Type: CR, Title: CAMEL phase 4 draft for 29.078 v5.5.0

Discussion : The CR that will be presented to March plenary should show all the changes to Rel-4. The document contains cover page only. The real document was distributed earlier.

Conclusion: noted

N2-010865: TS 23.018, Rel-5, Vodafone , Type: CR, Title: Introduction of CAMEL Phase 4 (complete)

Discussion : This CR combines the CRs to 3GPP TS 23.018 that have been approved in TSG-CN2 under the CAMEL Phase 4 work item.

Conclusion: noted

N2-010866 : TS 23.018, Rel-5, Vodafone, Type: CR , Title: Introduction of CAMEL phase 4 (condensed)

Discussion :

Conclusion: noted on the joint meeting with CN4

N2-010924 : TS 23.018, Rel-5, Vodafone, Type: CR, Title: Correction to CAMEL4 handling

Discussion:

Conclusion :noted

N2-010945 : TS 23.008, Rel-5, Alcatel SA, Type: CR , Title: Collective CR against 23.008

Discussion : This document is collective CR against TS 23.008; was late in joint meeting with CN4 (N4-011411).

Conclusion: noted

N2-010974 : 23.016, Rel-5, Siemens, Type: CR , Title: Collective CR against 23.016

Discussion : The document was handled in joint meeting with CN4 in Tdoc N4-011375.

Conclusion: noted in joint meeting with CN4

N2-010867 : 23.079, Rel-5, Vodafone, Type: CR, Title: Introduction of CAMEL Phase 4 (complete)

Discussion: The document was handled on joint meeting with CN4 and presents collective CR to 3GPP TS 23.079 ,WI CAMEL4.

Conclusion : noted in joint meeting with CN4

N2-010868 : 23.079, Rel-5, Vodafone, Type: CR, Title: Introduction of CAMEL Phase 4 (condensed)

Discussion:

Conclusion : noted

N2-010869 : 23.083, Rel-5, Vodafone, Type: CR, Title: Introduction of CAMEL Phase 4

Discussion:

Conclusion :noted in joint meeting with CN4

N2-010956 : 29.002, Rel-5, Ericsson, Type: CR, Title: Collective CAMEL Phase 4 CR on TS 29.002

Discussion:The document was handled in joint meeting with CN4 in document N4-011403.

Conclusion : noted in joint meeting with CN4

N2-010919 : TS 23.078, Rel-5, Ericsson, Type: CR, Title: Clarifications on the usage of PSI

Discussion: The document was not delived before Wednesday deadline.

Conclusion : postponed

N2-010953 : T-Mobil, Type: Discussion document, Title: CAMEL Phase 4: Introduction of functional subsets for the CAMEL phase negotiation

Discussion: As some vendors have already indicated that they will temporarily offer only a limited functional subset of CAMEL phase 4 in the next gsmSSF release and the full scope of the CAMEL phase 4 will be introduced in a later release, it is proposed to define functional subsets for CAMEL4. Since the support of a full CAMEL phase is negotiated between a VPLMN and the HPLMN, the functional subsets offered in the earlier system release cannot be used for roaming purposes. Functional subsets for CAMEL4, could be negotiated separately between the HLR and other network elements (e.g. in a VPLMN). These functional subsets could be used for roaming purposes even if the full scope of CAMEL phase 4 hasn ‘t been implemented in the current gsmSSF release.

If CN2 wants to introduce CAMEL4 subsets, we should give the inputs to SA1 to decide about this requirement because current stage 1 specification expects all features or nothing .The purpose of introduction of subsets is that if only subsets are implemented in NE, it shall be possible to use them. Subset negotiation is on CSI basis. Additionally, e.g. CPH support could be negotiated since they are separate operations.

Vodafone: This proposal has not only impact on CAMEL specifications, but on all other specs on which CAMEL has impact, what may delay CAMEL 4. Service logic becomes more complicated as well.

Alcatel is in favour of such requirement (MT-SMS could be feasible sub package).

Subsets should be kept on functional level (for example : CS, PS, SMS). Introduction of subsets introduces additional complexity for vendors (Ericsson), but if the method for partial support is standardised, vendors can clearly specify which subsets of CAMEL4 they support (Vodafone).

If there is small number of subsets, it’s technically possible to have them standardised (Call handling, MT SMS, …). Vodafone’s view is that any division of CAMEL must be along the functional boundaries. Negotiation of capability handling should not go more detailed than CSI level.

T-Mobil will draft a LS in document N2-011019 to SA1 to decide. Charging notification should not be proposed as OPTIONAL. If there will be no contributions on Charging notification, this working task should be removed from CAMEL4, Release 5. Siemens requested some time to decide the removal of Charging Notification since Siemens will maybe continue the work on this feature. Decision on that is postponed till next meeting.

Conclusion : noted

N2-011019: T-Mobil, Type: LS OUT from CN2 to SA1, Title: CAMEL Phase 4: Liaison Statement on Functional Subsets

Discussion: If we have subsets, everything within a subset is mandatory. Following sentence should be deleted: "The intention of CN2 is to make these functional subsets of CAMEL Phase 4 available for roaming purposes."

The split into the 3 subsets for the CAMEL phase negotiation seems to be technically possible from CN2 point of view. Functions inside GPRS subset can include Mobility Management, Any Time Interrogation and MT SMS.

CN2 asks SA1 to consider this proposal and to give an advice what are the proper subsests. T-Mobile will submit separately a CR for stage 1 to next SA1 meeting. Impact on other CN groups should be mentioned in the CR.

Conclusion :revised to 1029

N2-011029: T-Mobil, Type: LS OUT from CN2 to SA1, Title: CAMEL Phase 4: Liaison Statement on Functional Subsets

Discussion:

Conclusion : approved, will be sent to SA1, revision marks will be removed by MCC

N2-010958 : TS 29.078, Rel-5, Ericsson, Type: Discussion, Title: Editorial and technical conventions for TS 29.078

Discussion: The document was not delived before Wednesday deadline. Delegates are encouredged to study the document and to be prepared for discussion on the next meeting or to give the feedback to Rogier Noldus prior to the meeting.

Conclusion : postponed

N2-010963 : TS 23.078, Rel-5, Siemens, Type: CR, Title: Route not permitted IE in ERB in the case of MF

Discussion: The CR adds the information element "Route not permitted" in the MF column in the Event Specific Information BCSM if the Event Type BCSM contains O-Abandon. This IE indicates that the further call set up will not take place in this MSC due to the rules of basic optimal routing.

Conclusion : approved

N2-010964 : TS 29.078, Rel-5, Siemens, Type: CR, Title: Route not permitted IE in ERB in the case of MF

Discussion:

Conclusion : approved

9.3 CAMEL4/Optimal Routing

9.4 Call Party Handling

N2-010870 : Vodafone, Type: DISC, Title: CPH Open Issues and decisions

Discussion : The document lists CPH Open Issues and decisions taken since the last meeting.

Conclusion : noted

N2-010872 : 23.078, Rel-5, Vodafone, Type: CR, Title: Introduction of Initiate Call Attempt ack

Discussion :

Conclusion : revised to 971

N2-010971 : TS 23.078, Rel-5,Vodafone, Type: CR, r1, Title: Introduction of Initiate Call Attempt ack

Discussion : ICA ack goes to wrong direction on first SDL. Wording improved, the first *successful* to be deleted.

Conclusion :revised to 1033

N2-011033 : 23.078, Rel-5,Vodafone, Type: CR r1, Title: Introduction of Initiate Call Attempt ack

Discussion :

Conclusion : approved without presentation

N2-010873 : 29.078, Rel-5,Vodafone, Type: CR, Title: Introduction of Initiate Call Attempt ack

Discussion :

Conclusion : approved

N2-010946: 23.078, Rel-5, Alcatel, Type: CR, Title: Handling of Connect in a multiparty configuration

Discussion :

Conclusion : approved

N2-010950 : 23.078, Rel-5, Alcatel, Type: CR, Title: Handling of ContinueWithArgument considering CPH and further EDPs.

Discussion :

Conclusion : approved

N2-010951 : 23.078, Rel-5, Alcatel, Type: CR, Title: Handling of Continue considering CPH and further EDPs

Discussion : The Continue operation is used to request the gsmSSF to proceed with call processing at the DP at which it previously suspended call processing to await gsmSCF instructions. This CR is based on assumption that CAP-Continue is sent only in 2 party cases.

Conclusion : approved

N2-010874 : 23.078, Rel-5, Vodafone , Type: CR, Title: Moving to MidCall DP after CPH operation

Discussion : In process CAMEL_ICA_MSC (top diagram on 5(6)): Why to go to WaitForAnswer at the end of the diagram and not to MidCall DP after CAMEL_EXPORT_LEG_MSC? Either the state name should be different for alerting phase MidCall DP or variable should be used. In MidCall ISUP Answer shall be handled.

On page 14 , Procedure CAMEL_ICH_LEG2_CF_MSC is introduced. Alcatel's question is why is this procedure introduced. It is introduced to get clarity.

Conclusion :revised to 1037

N2-011037 : 23.078, Rel-5, Vodafone , Type: CR, Title: Moving to MidCall DP after CPH operation

Discussion :

Conclusion : postponed to next meeting

N2-010875 : 29.078, Rel-5, Vodafone , Type: CR, Title: Moving to MidCall DP after CPH operation

Discussion :

Conclusion :postponed

N2-010876 : 23.078, Rel-5, Vodafone , Type: CR, Title: Corrections to Process CAMEL_ICA_MSC

Discussion :

Conclusion : revised to 972

N2-010972 : 23.078, Rel-5, Vodafone , Type: CR r1,, Title: Corrections to Process CAMEL_ICA_MSC

Discussion : It was clarified DisconnectLegack is required in SDL (SCP needs this for timing, i.e. to know when it can send the next operation to the MSC).

Conclusion :approved

N2-010880 : 22.078, Rel-5, Vodafone , Type: CR,, Title: Clarification on Releasing Individual Call Parties

Discussion : It is proposed that the Disconnect Leg operation (used to release an individual call party) can be used at any point during the alerting or active phase of that call leg, and also when the processing of the call leg is suspended at a detection point due to unsuccessful call establishment.

Meeting does not see real service requirements for this. Busy is considered as unsuccessful call establishment, and at the Busy DP, according to this CR Disconnect Leg is sent to busy party that is already disconnected and calling party is sent to active state.

This is done to leave to service designers the choice what will be done in active state (for example to get announcement). In the Busy DP a tone can be played..

Nokia sees this as a radical change in the call state model. The BCSM should jump from an unsuccessful DP into active phase of the call directly. In the MSC many action are performed before going to speech state, e.g. starting of charging.

Conclusion : noted

N2-010877 : 23.018, Rel-5, Vodafone , Type: CR,, Title: Disconnect Leg and Move Leg operation in Alerting phase

Discussion : On page 7, after decision box leg id 1 or 2 , there is a branch where the procedure CAMEL_OCH_LEG1_MSC is called. This procedure is not going anywhere to active state. It is not clear from SDLs to which state it goes after.

On page 7 after Call Setup failed, leg status is set to alerting, what is not clear.

Nokia's and Alcatel's view is that it is not good approach to go to active state after disconnect leg, Alcatel would like to keep it in alerting phase. Nokia proposes O/T_Mid_Call since the alerting phase MidCall DP was introduced for this particular purpose. When the BCSM goes to MidCall due to a CPH operation, then the EDP is not reported to the SCP.

Nokia asks what is the charging rate applicable for the calling party? The MSC-based charging rate is defined in the called party number analysis. However, the called party is disconnected in this case. Vodafone indicated that they will study the charging issue.

Conclusion is that currently, in the stage 1 there is no service requirement to disconnect leg in the alerting phase.

Conclusion : noted

N2-010947 : 23.078, Rel-5, Alcatel , Type: CR, Title: Handling of Disconnect in a multiparty configuration

Discussion : Chairman's suggestion is to change a decision box "CS consists of one or two legs" on page 3 to "number of legs in CS" and to have a branch with answer "1 or 2" and onother answer "> 2".

Conclusion : revised to 1036

N2-011036 : 23.078, Rel-5, Alcatel , Type: CR, r1, Title: Handling of Disconnect in a multiparty configuration

Discussion : Check box which is checking number of legs *1,2* or *grater than 2* (>2) should be marked "for further study".

Conclusion : revised to 1044

N2-011044 : 23.078, Rel-5, Alcatel , Type: CR, r2, Title: Handling of Disconnect in a multiparty configuration

Discussion :

Conclusion : approved without presentation

N2-010878 : 23.078, Rel-5, Vodafone , Type: CR,, Title: Disconnect Leg and Move Leg operation in Alerting phase

Discussion :

Conclusion : revised to 973 before the meeting

N2-010973 : 23.078, Rel-5, Vodafone , Type: CR,r1, Title: Disconnect Leg and Move Leg operation in Alerting phase

Discussion : Alcatel's questions: What is happening with Leg2 if we receive DisconnectLeg for Leg1? What happens to the armed DPs of the released leg?

Conclusion : noted

N2-010879 : 23.083, Rel-5, Vodafone , Type: CR,, Title: Disconnect Leg and Move Leg operation in Alerting phase

Discussion :

Conclusion : noted

N2-010948 : 23.078, Rel-5, Alcatel , Type: CR,, Title: Update signalling after Move Leg operation

Discussion : The SDL works the wrong way around; answer is generated if it has been received earlier due to active outgoing leg in target CS, same problem exists with the ACM.

Vodafone's document has different approach. Nokia agrees with Alcatel that we should not go to active state due to disconnect leg (in Vodafone's document).

Conclusion : revised to 1034

N2-011034 : 23.078, Rel-5, Alcatel , Type: CR,r1, Title: Update signalling after Move Leg operation

Discussion : If we are moving a leg to a call segment where we have 2 active legs, should only one Connect be sent to the leg that is moved to a call segment.

The text in Output signals to process should be put in text extension box, as well as text in question box. The text in the signal box has to be improved ("Connect (ISUP)/Connect (access) to the incoming leg process")? It must be clarified to whom messages are sent.

Conclusion : revised to 1043

N2-011043 : 23.078, Rel-5, Alcatel , Type: CR,r2, Title: Update signalling after Move Leg operation

Discussion :

Conclusion : approved without presentation

N2-010881 : 23.018, Rel-5, Vodafone , Type: CR, Title: Disconnect Leg operation at unsuccessful call establishment DP

Discussion :

Conclusion : noted

N2-010882 : 23.078, Rel-5, Vodafone , Type: CR, Title: Disconnect Leg operation at unsuccessful call establishment DP

Discussion :

Conclusion : noted

N2-010883 : 23.083, Rel-5, Vodafone , Type: CR, Title: Disconnect Leg operation at unsuccessful call establishment DP

Discussion :

Conclusion :noted

N2-010923 : 23.079, Rel-5, Vodafone , Type: CR, Title: Disconnect Leg operation at unsuccessful call establishment DP

Discussion :

Conclusion : noted

N2-010925 : 23.078, Rel-5, Vodafone , Type: CR, Title: Correction to Procedure CAMEL_OCH_RECONNECT_MSC
Discussion : If DP3 fails, this will lead to RouteSelectFailureDP (in CAMEL3). The issue is left FFS.

Conclusion : approved

N2-010926 : 23.078, Rel-5, Vodafone , Type: CR, Title: Default Call Handling for NP and NC calls

Discussion : Alcatel finds question asked in some question boxes very complicated. Christian Homman from Alcatel offered to revise a document (to set a variable and then check the variable in the proper place).

Conclusion : revised to 1035

N2-011035 : 23.078, Rel-5, Alcatel & Vodafone , Type: CR, r1, Title: Default Call Handling for NP and NC calls

Discussion :

Conclusion :approved

N2-010927 : 23.078, Rel-5, Vodafone , Type: CR, Title: Handling of CPH configuration after CAP dialogue ends

Discussion : When a CPH configuration is in a stable state (e.g. all parties answered and in one call segment), the gsmSCF may wish to close the dialogue to save resources. If the CAP dialogue ends during the CPH configuration, the process CSA_gsmSSF will: Disconnect any legs that are not in CS ID1 and if CS ID1 contains only one leg, that leg shall also be released. When the penultimate leg in CS ID1 disconnects, the CSA_gsmSSF shall release the last remaining leg.

Can the SCP close the dialogue when there are still legs at non active phase and what are the operations that close that dialogue? DisconnectLeg would be cleanest way to clear non-active call legs.

I should be decided how the Cancel operation should work. This will be put to open issues.

Decisions:

- TC-END should not be sent by SCP if there are pending EDPs and reports in the MSC.

- SCP shall not close the CAP dialogue if there are multiple call segments.

- The definition of the Cancel operations may need to be corrected

Conclusion : revised to next meeting

N2-010949 : 23.078, Rel-5, Alcatel, Type: CR, Title: Continue with Argument after Split Leg operation

Discussion : The document was commented by Ruth Hewson by e-mail: in SDLs it should be explicitly stated that if CWA contains legID, the CWA is forwarded only to the MSC process for that leg. If CWA contains CSID, the CWA is forwarded to all legs within the CS.

Changes are required to Process CSA_gsmSSF sheet 5, CWA is handled along with other CAP messages. The first decision box after receipt of CWA is “LegID valid?”. If CWA contains a CSID then we need to check “CSID valid” and send the message on to the correct CS.

Conclusion : revised to 1038

N2-011038 : 23.078, Rel-5, Alcatel, Type: CR, Title: Continue with Argument after Split Leg operation

Discussion :

Conclusion :approved

9.5 CAMEL4/DTMF Mid-call DP

N2-010884 : 23.078, Rel-5,Vodafone, Type: CR, Title: Introduction of MidCall DP in SDLs

Discussion : Input MidCall comes from BSS (DTMF)in the SDLs in this CR. It is CAMEL issue to report Start DTMF and Stop DTMF, but not MidCall input from BSS? It is reasonable to leave this SDL as proposed that only MidCall DP is armed. CN2 has to check what are the correct messages for receiving of DTMF. Vodafone suggest to mark this input MidCall with “FSS” besides the signal coming from BSS. It is not clear as well whether we receive single message.

DP MidCall is used to determine whether CAMEL relationship has to be retained.

On the last page, check box “Any remaining armed EDPs or outstanding report?” has to be changed (outstanding requests should be added as well in question box). Reference to other CN2 documents has to be removed from the body of the CR.

Conclusion :revised to 1028

N2-011028 : 23.078, Rel-5,Vodafone, Type: CR, Title: Introduction of MidCall DP in SDLs

Discussion: The current gsmSSF process has intelligence and the checking should be done in gsmSSF and gsmSSF should report digits. In the next meeting this has to be improved

Conclusion :approved

9.6 CAMEL4/IMS

N2-010938 : 23.278, Rel-5, Lucent Technologies , Type: CR, Title: Introduction of SDLs for the imcnSSF

Discussion : This CR introduces the SDLs for CAMEL – IMS interworking. SDLs cover the handling of MO and MT calls in the IM-SSF, the registration and de-registration procedures and description of the imcnSSF. The imcnSSF is based on the CAMEL phase 3 gsmSSF.

Si is the interface between HSS and IM-SSF. Sr interface is interface between gsmSRF and gsmSCF.

Questions and comments:

- Which CSIs are stored in CSCF? CSI exists in IM SSF only. There is only filtering criteria in serving CSCF. Service control is only applicable in serving CSCF which is placed in HPLMN. IM SSF behaves as SIP agent, sends SIP messages to MS via S-CSCF.

  - What is the use of D-CSI and N-CSI? N-CSI is more VPLMN specific CSI. D-CSI and N-CSI may not be needed.
  - T-CSI is for S-CSCF-B (stored in IM SSF), no CAMEL service for I-CSCF. It would be better to use VT-CSI.
  - Registration and de-registration need to cover pulling CSIs. Siemens document covers this issue.
  - Currently E.164 is the only triggering criteria. We may need to extend existing CSI or create a new one.

- Does AoC applies to serving CSCF? Currently it is included, but it does not work in GPRS. Aoc could be mapped to SIP-INFO, but only as part of a SIP-INVITE.

In figure 5.13a, Cause code is used in question box, which is ISUP related and can not be used in SIP.

In sheet 5.6b, why is “183 Session Progress” sent ? – If there was “Connect” it has to result in INVITE, not in “183 Session Progress”.

Revised version should be available by Friday and the revised version including other contributions and moved sections from 23.218 should form skeleton document which will be presented for information in December plenary.

Conclusion :revised to 979

N2-010979 : 23.278, Rel-5, Lucent Technologies , Type: CR, Title: Introduction of SDLs for the imcnSSF

Conclusion :The document contains draft version of 23.278 (V D0.3.0) for submission to CN#14 as version 1.0.0 for information only. 50% of completeness of the work has been reached. SDLs source code should be attached to this document. In March the document will be submitted as a version 2.0.0 for approval. After approval, the document will become TS 23.278 v 5.0.0.

Discussion :

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

N2-010918 : TS 23.218, Rel-5, Nokia, Type:CR, Title: Moving CAMEL related sections from TS 23.218 to TS 23.078

Discussion : CN2 agrees to move CAMEL issues from TS 23.218 to CAMEL specification, but to TS 23.278 instead to 23.078. Alcatel proposal is not to move section 11 completely but to leave references.

Conclusion :conditionally approved, if CN1 approves the corresponding CN1 part

N2-010965 : Siemens, Type: Discussion documet, Title:CAMEL registration procedure in IMS

Discussion : The document was not delived before Wednesday deadline. The IM-SSF requests the CSI for the subscriber (and other necessary information) from the HSS. CN2 should inform CN4 that we have to make CSI available from HSS to IM-SSF. IM SSF would send MAP–PSI to HSS (message “B” in the figure). Lucent supports use of SRI or PSI. Vodafone’s comment is that PSI is not appropriate for this, but SRI or ATSI would be more relevant.

Si interface could be defined by CN2 on stage 2 level , but stage 3 (protocol) should be CN4 responsibility.

Siemens proposal for the retrieval of CSI from HSS to IM-SSF should be presented in the new document which will be seen in joint meeting with CN4.

Conclusion : noted

N2-010980 : Siemens, Type: Discussion document, Title:Specification at Si interface

Discussion : The document is handled on joint meeting with CN4 in Tdoc N4-011396.

It is agreed that CN2 & CN4 will recommend to CN#14 that the handling of the work over the Si interface, as proposed by Siemens, could be shared between CN2 and CN4. CN2 could take over the work on stage 2 (information flows), and CN4 would be responsible for stage 3 (protocol design). There may be a backwards impact from the protocol choice on to the stage 2. The consensus was that the CN4 could decide the protocol to be be used. The protocol selection impacts on stage 2 (operation names), thus it should be selected first. The protocol selection is typically a SA2 choice but it is urgent to select the protocol.

Conclusion : noted on joint meeting with CN4

N2-010966 : Siemens, Type: Discussion document, Title: CAMEL control of call duration in IMS

Discussion :

Conclusion : withdrawn

9.7 CAMEL control over MT SMS

9.8 Inclusion of flexible tone injection

N2-010967 : 23.078, Rel-5, Logica, Type: CR, Title: Tones support for CAMEL phase 4

Discussion : This is updated CR from the Brighton meeting with incorporated CN2 conclusions. Play tone should be also possible for specific LegID.

What happens if tone interrupted due to release of the call. Logica's and Ericsson's opinion is that all events from SCP side and MSC are buffered when the tone is played. This buffering makes MSC implementation very complicated. Especially buffering of release messages. There may be also charging impacts, if release is buffered for max 30 seconds before the call is released. Logica considered playing tone to call segments. If we consider PlayTone to specific leg, the implementation would be easier. Vodafone find this as a good service requirement.

Max length of the tone is 30 seconds. SDLs in this contribution should be identical to playing of warning tone to apply charging. Change to SDL should be done.

What happens when playing of tone to entire call segments is in progress due to the warning tone and SCP instructs to play tone.(suitable error code, operation error) . Nokia : SCP shall not send overlapping *Play Tone* operarations.

Conclusion :revised to 1030

N2-011030 : 23.078, Rel-5, Logica, Type: CR, Title: Tones support for CAMEL phase 4

Discussion : The following sentence should be removed from Play Tone description: "If a tone burst is already in progress for the specified leg or call segment, the MSC shall ignore this operation." It should be forbidden for SCP to send this operation in described case.

Alcatel is asking why *Play tone* is allowed after *Establish Temporary Connection* but not after *Connect To Resource* operation. This was seen as inconsistent. Alcatel is proposing to remove Play Tone operation during user interaction. Vodafone's note is that it should be specified when the user interaction is finished. This issue is for further study.

Meeting should define what are active parties. It will be specified that the tone can be played to all parties in the CS that are capable of the receiving it.

Conclusion : revised to 1042

N2-011042 : 23.078, Rel-5, Logica, Type: CR, Title: Tones support for CAMEL phase 4

Discussion : Wording of description of IEs from ApplyCharging operation should be copied in this table (will be done off –line by the rapporteur).

Conclusion : approved

N2-010969 : 29.078, Rel-5, Logica, Type: CR, Title: Tones support for CAMEL phase 4

Discussion :

Conclusion : postponed to next meeting

N2-010920: 23.078, Rel-5, Ericsson, Type: CR, Title: Clarifications on the handling of the flexible warning tone

Discussion :

Conclusion : withdrawn

9.9 Charging notification to CSE

N2-010916 : 23.078, Rel-5, C-DOT, Type: CR, Title: Handling of RNC and ENC operations in a CPH configuration

Discussion :

Conclusion :withdrawn (no C-DOT delagate present in the meeting)

N2-010917 : 29.078, Rel-5, C-DOT, Type: CR, Title: Handling of RNC and ENC operations in a CPH configuration
Discussion :

Conclusion : **withdrawn**

N2-010960 : 23.078, Rel-5, Siemens AG, Type: CR, Title: ACR with ENC

Discussion : Siemens wants to check if they want to contribute on the feature.

Conclusion: postponed to next meeting

9.10 Enhancements of dialled services

N2-010909 : 23.018, Rel-5, C-DOT, Type: CR, Title: Changes to allow initiation of a control/monitoring relationship with CSE at DP3

Conclusion :withdrawn

N2-010910 : 23.078, Rel-5, C-DOT, Type: CR, Title: Changes in gsmCCF for MO calls to allow initiation of a control/monitoring relationship with CSE at DP3

Conclusion :withdrawn

N2-010911 : 23.078, Rel-5, C-DOT, Type: CR, Title: Changes in gsmCCF for MF calls to allow initiation of a control/monitoring relationship with CSE at DP3

Conclusion :withdrawn

N2-010912 : 23.078, Rel-5, C-DOT, Type: CR, Title: Changes in gsmCCF for NP calls to allow initiation of a control/monitoring relationship with CSE at DP3

Conclusion: withdrawn

N2-010913 : 23.078, Rel-5, C-DOT, Type: CR, Title: Changes in gsmSSF to allow initiation of a control/monitoring relationship with CSE at DP3

Conclusion :withdrawn

N2-010914: 29.078, Rel-5, C-DOT, Type: CR, Title: Modifications in Connect operation to support control/monitoring relationship with CSE at DP3 for MF calls

Conclusion :withdrawn

N2-010915 : 29.078, Rel-5, C-DOT, Type: CR, Title: Introduction of a variable in InitialDP operation to indicate control/monitoring relationship with CSE at DP3

Conclusion : withdrawn

9.11 Provision of location information of called subscriber

9.12 Notification of GPRS mobility management to CSE

N2-010889: TS 22.078, Rel-5, Vodafone, Type: CR, Title: CR 22.078-128r1 on Introduction of subscriber status information in PS domain

Discussion : The CR has been already approved by SA1. CR proposes to separate subscriber status definition into definitions for the circuit switched domain and the packet switched domain; to add a new mobility management event for GPRS and to add requirement for the CSE to indicate whether information is requested from HPLMN, VPLMN in the CS domain or VPLMN in the PS domain.

Call Forwarding SS data, Call Barring SS data, Operator Determined Barring data and CAMEL Subscription Information are available in HPLMN and will be retrieved from HPLMN using ATSI.

Implicit IMSI attach in CS and reachability for paging in PS are of interest to CSE.

We should inform SA1 that network initiated detach in Packet domain should be added to the list. Vodafone will draft a LS to SA1 in Tdoc N2-011020 and proposed change to 22.078 will be part of the body to that LS.

Conclusion: noted

N2-011020: Vodafone, Rel-5, Type: LS OUT Title: Draft Liaison Statement on Mobility Management event reporting in the PS domain

Discussion : MCC has to delete "ACTION1" which was copied twice.

Conclusion: approved, will be sent to SA1

N2-010890: TS 23.078, Rel-5, Vodafone, Type: CR, Title: Enhancements to subscriber information reporting in the PS domain

Discussion :

Conclusion: revised to 939

N2-010939: TS 23.078, Rel-5, Vodafone, Type: CR, Title: Enhancements to subscriber information reporting in the PS domain

Discussion : Location area ID should not be in the table, since location area does not apply for PS. VLR number is not used in PS.

Separate tables applicable for CS and PS should be introduced and PS domain should not be compared with call handling. For Packet Switched domain we should not list the differences to CS domain, we should have the complete list. All the IEs will be listed, but instead of a description , a reference to the specification in which the IE is specified will be listed.

Alignment between state names and message names should be ensured. In section 9.3.2.1 there are SDLs that could be impacted by this change. In ATI ack and PSI ack from the SGSN and HLR there is a duplication of tables. There is difference between what is sent from HLR to the SCP and what is sent from SGSN to HLR. In the description column it should be stated that the HLR returns to the SCP what is received from the SGSN? It may be the case that in HLR there is no VLR address, in that case certain value is returned.

Ready state should be aligned with SDLs.

PDP context information list : for each list those elements that are not available at the very beginning of the PDP context establishement should be marked Conditional. Mandatory parameters are those that are always present even if PDP context is not active.

Conclusion: revised to 1021

N2-011021: TS 23.078, Rel-5, Vodafone, Type: CR, Title: Enhancements to subscriber information reporting in the PS domain

Discussion : LocationInformationGPRS has to be moved to 29.002 and cancel addition of SGSN number into LocationInformation, because this leads to misalignment with 29.002. Alternatively, add *SGSN address* to LocationInformation. Currently, stage 2 and 3 are misaligned and inconsistent when it comes to parameter naming.

In CS for Location Information the same terminology shall be used independent on where it is used.

Conclusion: revised for the next meeting

N2-010891: TS 29.002, Rel-5, Vodafone, Type: CR, Title: Enhancements to subscriber information reporting in the PS domain

Discussion : The document has been handled in the joint meeting with CN4 (in N4-011284). Summary of the joint meeting report:

- CN2 chairman proposed to report network initiated GPRS detach. Joint session agreed.
- Ericsson proposes to remove the existing elements of the subscriber state to ext-subscriber state. Siemens supports this. In the ext-subscriber state, "notprovidedby VLR" should be "notprovidedby SGSN" Siemens proposed to rename ext-subscriberstate to PS-subscriberstate.
- Ericsson proposal is to clarify the domain of application for subscriberstate (CS only) & PS-subscriberstate (PS only).
- The charging ID should be defined as an octet string size 4, internal structure as defined in 29.060 (as is done in 29.078)

    - Vodafone proposed to import from 29.078

    - If something is used in both CAP and MAP, we define it in MAP and export it to CAP, recognizing that that affects CAP specification.

    - CN2 chairman: CN2 won't be changing CAP for Release 99 and the definition will be identical. There may be some backwards impact on 23.078, as well as the necessary CR for impact on 29.078. Since the Rel-5 29.078 has a copy of CAPv3 GPRS operations, we must ensure that Rel-5 MAP does not change any of the imported (to CAP) data types. Within one application context version only one encoding is possible. If there were differences in data types, there would be interworking problems if one end reads R99 29.078 CAPv3 and the other end Rel-5 29.078 CAPv3.

Conclusion: revised to 1022 (revised to N4-011410 in joint meeting)

N2-011022: TS 29.002, Rel-5, Vodafone, Type: CRr1, Title: Enhancements to subscriber information reporting in the PS domain

Discussion : ChargingId should be GPRSChargingId.

Conclusion: revised to 1023

N2-011023: TS 29.002, Rel-5, Vodafone, Type: CRr2, Title: Enhancements to subscriber information reporting in the PS domain

Discussion : The content was agreed by CN4 in document N4-011424 and will be included in CN2 collective CR to TS 29.002 for CAMEL phase 4.

Conclusion: endorsed without presentation

N2-011001: TS 29.078, Rel-5, Vodafone, Type: CR, Title: Move of definition of GPRSChargingID to 29.002

Discussion : This CR replaces the explicit definition of GPRSChargingID with an IMPORT from 29.002 . Joint meeting agreed not to have circular imports, i.e. CAP always imports from MAP and not the other way around.

Conclusion: endorsed without presentation

9.13 CAMEL4/ ODB in HLR-SCP interface

N2-010961 : 23.078, Rel-5, Siemens, Type: CR, Title: Inclusion of ODB data in ATM

Discussion :Procedure ATM_Modify_ODB_Data is changed. If Barring of outgoing calls is activated, then Barring of international outgoing calls becomes "active and quiescent".

Siemens proposal says that if Barring of all outgoing calls is set, in HLR only this bit is set, and other barrings bits are still the same. When the Barring of all outgoing calls is deactivated, again only this bit is changed in the HLR and other call barrings bits are still the same.

If the SCP does not find any ODB category to set, default value should be defined. It's up to Siemens to specify default in ASN1. Activate ODB data IE is a bit string. It should be listed which parameters are contained in Activate ODB Data (in the description of the IE).

On page 10 there is a question box that is asking if there is any inconsistency among new ODB and other existing subscriber data. Where can a reference on the "inconsistency" be found?. It is not clear what HLR is checking in this checkbox. Nokia's proposal is to remove this check box if we do not know what kind of check is done and to leave it if the check can be clearly specified.

According to Vodafone, consistency of ODB classes shall be checked by the HLR, especially barring of outgoing calls. From Siemens point of view this is not flexible.

Conclusion :revised to 1031

N2-011031 : 23.078, Rel-5, Siemens, Type: CR, Title: Inclusion of ODB data in ATM

Discussion : CAMEL spec should not define the rule for ODB interaction. HPLMN specific categories are not standardised. ODB specification must define a rule for general ODB categories. For generic ODB category we could put a reference to ODB specification, but for HPLMN specific category we can not standardise the rule - it is for further study. In any case rules should not be specified in CAMEL specifications. Ericsson suggests to add a new paragraph to give more explanation to readers

.***Conclusion :revised to next meeting***

N2-010962 : 29.002, Rel-5, Siemens, Type: CR, Title: Inclusion of ODB data in ATM

Discussion : Notification to CSE flag should be removed from ODB data description as it is not part of ODB data.

Conclusion: revised to 1032

N2-011032 : 29.002, Rel-5, Siemens, Type: CR, Title: Inclusion of ODB data in ATM

Discussion : Section 8.11.3 requires update.

Conclusion: revised to next meeting

9.14 CAMEL4/ Location Information during ongoing call

9.15 CAMEL4/GPRS AnyTimeInterrogation

N2-010903: 23.078, Rel-5, Vodafone, Type: CR, Title: Transferring MS classmark information to the gsmSCF
Discussion : CR to stage 1 was still not submitted. IMEI could be used as an index to the DB, to translate from IMEI the handset type in order to know handset capability. Siemens has concerns about including IMEI because this could lead to the situation that operators distinguish different vendors and treat them differently.

CN2 does not know exactly what the service requirements are. Maybe SAT and MeXE should be considered. If IMEI is not transferred there would be no impact to IDP information flows. Addition of this IE can be implemented in specs and check later when IMEI is available.

Currently there is no hard requirement that core network requests IMEI. It's up to GSM association to define frequency of requiring of IMEI.

CN2 finds this technically possible to be specified, if SA1 approves this requirement.

Conclusion: noted

N2-010904: 29.078, Rel-5, Vodafone, Type: CR, Title: Transferring the IMEI to the gsmSCF

Discussion :

Conclusion: revised to 1017

N2-011017: 29.078, Rel-5, Vodafone, Type: CRr1, Title: Transferring the IMEI to the gsmSCF

Discussion :

Conclusion: noted

N2-010905: 29.002, Rel-5, Vodafone, Type: CR, Title: Transferring MS classmark information to the gsmSCF

Discussion :

Conclusion: revised on joint meeting with CN4 to new CN4 Tdoc, noted by CN2

N2-010888: 23.078, Rel-5, France Telecom, Type: CR, Title: Active Location Retrieval in PS domain

Discussion :

Conclusion: withdrawn

10 Review of dates and hosts for future meetings

CN2 will have CAMEL phase 4 editorial cleanup AdHoc meeting on Rel-5 TS 23.078, TS 29.078 and TS 23.278 on 20th -21st of February. Only minor technical changes are allowed – contribution driven spec edited directly on-line. The deadline for the next meeting for Tdoc numbers request is preceding Wednesday, 12:00 CET. Documents must be delivered by preceding Wednesday 23:59, CET.

Delegates are encouraged to check whether their companies can host April meeting in Europe. January meeting will start on Monday, 28th of January at 12:00 p.m (at noon).

Review of the N2 meeting schedule for 2002

TITLE	TYPE	DATES	LOCATION	CTRY
3GPPCN2-#22	WG	28Jan – 1 Feb 2002	Sophia Antipolis	France
3GPPCN2-#23	WG	8 – 12 April 2002	TBD	USA
3GPPCN2#24	WG	13-17 May 2002	Aachen	Germany
3GPPCN2#25	WG	29July-2 August 2002	TBD	Finland
3GPPCN2#26	WG	23-27September	TBD	USA
3GPPCN2#27	WG	11-15 November	Penang	Malaysia

11 Closing of the meeting **(15:30 Friday)**

Action points:

- New 3GPP Technical Specification 23.278 v 1.0.0 is to be sent as input document to CN#14 for information
- It will be indicated at CN#14 that CN2 and CN4 agreed about work share on Si interface, interface between HSS and IM-SSF. CN2 could work on stage 2 and CN4 can be responsible for stage 3, protocol development. CN#14 will make a final decision.
- All CRs that contain change to SDLs have to have SDL source file attached for future meetings.

Annex A Attendees list

Name	Organization represented	Status, partner	Phone	Fax	e-mail
Mr. Christian Homann	ALCATEL S.A.	3GPPMEMBER (ETSI)	+49 711 821 45632	+49 711 821 40017	c.homann@alcatel.de
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Mr. Willy Verbestel	DoCoMo Europe S.A.	3GPPMEMBER (ETSI)	US	+1 815 444 1570	wmjv@hotmail.com YES - NO
Dr. Georg Wegmann	Deutsche Telekom MobilNet	3GPPMEMBER (ETSI)	DE	+49 228 936 3468	georg.wegmann@t-mobil.de YES - NO
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Member of 3GPP (T1)					
Mr. Stephen Hayes	Ericsson Inc.	3GPPMEMBER (T1)	US	+1 972 583 5773	stephen.hayes@ericsson.com YES - NO
Organisation partner representative (ETSI)					
Mrs. Andrijana Jurisic	Mobile Competence Centre		FR	+33 4 92 94 43 09	andrijana.jurisic@etsi.fr YES - NO

Annex B Output Documents

Approved Change Requests for CAMEL Phase 3

TDoc #	WI	Rel	Title	Spec	CR #	Rev	Version	Conclusion	Source
N2-010871	CAMEL3	R99	Correction to Procedure "Handle_AC" (missing check box exit)	23.078	345		3.10.0	approved	Ericsson
N2-010892	CAMEL3	R99	ApplyCharging shall be allowed in a control relationship only	29.078	212		3.9.0	approved	Ericsson
N2-010893	CAMEL3	R99	Correction to IMPORT statements	29.078	213		3.9.0	approved	Ericsson
N2-010894	CAMEL3	R99	Correction to reference for the encoding of Called Party Number	29.078	214		3.9.0	approved	Ericsson
N2-010895	CAMEL3	R99	Tccd shall be stopped in procedure Handle_ACR	23.078	347		3.10.0	approved	Ericsson
N2-010896	CAMEL3	R99	Correction to ECT Treatment Indicator description	23.078	348		3.10.0	approved	Ericsson
N2-010899	CAMEL3	R99	Reporting QoS changes shall not be restricted to "User initiated" QoS changes	23.078	351		3.10.0	approved	Ericsson
N2-010976	CAMEL3	R99	Clarification on ATM about simultaneous SS modifications	23.078	359	1	3.10.0	approved	Alcatel SA
N2-010977	CAMEL3	Rel-4	Clarification on ATM about simultaneous SS modifications	23.078	362		4.2.0	approved	Alcatel SA
N2-010981	CAMEL3	Rel-4	Correction to IMPORT statements	29.078	222		4.2.0	approved	Ericsson
N2-010982	CAMEL3	R99	Correction to error handling description for Initial DP operations	29.078	216	1	3.9.0	approved	Ericsson
N2-010983	CAMEL3	Rel-4	Correction to error handling description for Initial DP operations	29.078	223		4.2.0	approved	Ericsson
N2-010984	CAMEL3	R99	The use of "White TCAP" shall be mandated for CAP	29.078	218	1	3.9.0	approved	Ericsson
N2-010985	CAMEL3	Rel-4	The use of "White TCAP" shall be mandated for CAP	29.078	224		4.2.0	approved	Ericsson
N2-010990	CAMEL3	Rel-4	Reporting QoS changes shall not be restricted to "User initiated" QoS changes	23.078	364		4.2.0	approved	Ericsson

N2-010994	CAMEL3	R99	Correction to preconditions for ActivityTestGPRS	29.078	215	1	3.9.0	approved	Ericsson
N2-010995	CAMEL3	R99	Correction to references for the encoding of APN	29.078	217	1	3.9.0	approved	Ericsson
N2-010996	CAMEL3	Rel-4	Correction to references for the encoding of APN	29.078	225		4.2.0	approved	Ericsson
N2-010997	CAMEL3	R99	Guidance to the usage of SCI-GPRS in the case of no support of AoC	23.078	352	1	3.10.0	approved	Ericsson
N2-010998	CAMEL3	Rel-4	Correction to Procedure "Handle_AC" (missing check box exit)	23.078	365		4.2.0	approved	Ericsson
N2-010999	CAMEL3	R99	Corrections in the Call Information Report/Request operation	23.078	346	1	3.10.0	approved	France Telecom
N2-011000	CAMEL3	Rel-4	Corrections in the Call Information Report/Request operation	23.078	366		4.2.0	approved	France Telecom
N2-011007	CAMEL3	Rel-4	ApplyCharging shall be allowed in a control relationship only	29.078	226		4.2.0	approved	Ericsson
N2-011008	CAMEL3	Rel-4	Correction to reference for the encoding of Called Party Number	29.078	227		4.2.0	approved	Ericsson
N2-011009	CAMEL3	Rel-4	Tccd shall be stopped in procedure Handle_ACR	23.078	367		4.2.0	approved	Ericsson
N2-011010	CAMEL3	Rel-4	Correction to ECT Treatment Indicator description	23.078	368		4.2.0	approved	Ericsson
N2-011011	CAMEL3	R99	Correction to precondition of ContinueWithArgument	29.078	227		3.9.0	approved	Ericsson
N2-011012	CAMEL3	R99	Clarification on Connect and ContinueWithArgument about the SII2	23.078	355	1	3.10.0	approved	Alcatel SA
N2-011025	CAMEL3	Rel-4	Correction to preconditions for ActivityTestGPRS	29.078	228		4.2.0	approved	Ericsson
N2-011026	CAMEL3	Rel-4	Guidance to the usage of SCI-GPRS in the case of no support of AoC	23.078	369		4.2.0	approved	Ericsson
N2-011027	CAMEL3	Rel-4	Clarification on Connect and ContinueWithArgument about the SII2	23.078	370		4.2.0	approved	Alcatel SA
N2-011039	CAMEL3	Rel-4	Correction to precondition of ContinueWithArgument	29.078	229		4.2.0	approved	Ericsson
N2-011040	CAMEL3	R99	Clarification: use of SS-Code in ATM, ATSI and NSDC	23.078	363	4	3.10.0	approved	Siemens AG

N2-011041	CAMEL3	Rel-4	Clarification: use of SS-Code in ATM, ATSI and NSDC	23.078	371		4.2.0	approved	Siemens AG

Endorsed Change Requests for CAMEL Phase 3

TDoc #	WI	Rel	Title	Type	Spec	Rev	Version	Conclusion	Source
N2-010929	CAMEL3	R99	Syntax error on notificationToCSE in the ATM result	CR	29.002		3.10.0	endorsed	Alcatel SA
N2-010930	CAMEL3	R99	Syntax error in the ATM result and ATSI result	CR	29.002		3.10.0	endorsed	Alcatel SA
N2-010988	CAMEL3	R99	Alignment of tables A.1 and A.2 with stage 2	CR	22.078	1	3.8.0	endorsed	Alcatel
N2-010989	CAMEL3	Rel-4	Alignment of tables A.1 and A.2 with stage 2	CR	22.078		4.3.0	endorsed	Alcatel
N2-011002	CAMEL3	R99	Corrections in the ATI mechanism description	CR	23.018	2	3.9.0	endorsed	France Telecom
N2-011005	CAMEL3	Rel-4	Corrections in the ATI mechanism description	CR	23.018	1	4.4.0	endorsed	France Telecom
N2-011013	CAMEL3	R99	Re-initialisation of the CAMEL GPRS dialogue after a relocation cancel	CR	23.060	2	3.9.0	endorsed	Alcatel
N2-011014	CAMEL3	Rel-4	Re-initialisation of the CAMEL GPRS dialogue after a relocation cancel	CR	23.060	2	4.2.0	endorsed	Alcatel
N2-011015	CAMEL3	R99	CAMEL trigger point C1 for the SRNS relocation procedure	CR	23.060	1	3.9.0	endorsed	Alcatel
N2-011016	CAMEL3	Rel-4	CAMEL trigger point C1 for the SRNS relocation procedure	CR	23.060	1	4.2.0	endorsed	Alcatel

Approved Output Liaison Statements

TDoc #	Type	Title	Source	Conclusion	To	CC
N2-011020	LS OUT	Liaison Statement on Mobility Management event reporting in the PS domain	Vodafone	approved	SA1	CN4
N2-011029	LS OUT	CAMEL Phase 4: Liaison Statement on Functional Subsets	T-Mobil	approved	SA1	

Approved and endorsed Change Requests for CAMEL Phase 4

TDoc #	WI	Rel	Title	Type	Spec	Rev	Version	Conclusion	Source
N2-010873	CAMEL4	Rel-5	Introduction of Initiate Call Attempt ack	CR	29.078		d5.5.0	approved	Vodafone Group Plc
N2-010925	CAMEL4	Rel-5	Correction to Procedure CAMEL_OCH_RECONNECT_MSC	CR	23.078		5DB1	approved	Vodafone Group Plc
N2-010946	CAMEL4	Rel-5	Handling of Connect in a multiparty configuration	CR	23.078		5DB1	approved	Alcatel
N2-010950	CAMEL4	Rel-5	Handling of ContinueWithArgument considering CPH and further EDPs.	CR	23.078		5DB1	approved	Alcatel
N2-010951	CAMEL4	Rel-5	Handling of Continue considering CPH and further EDPs.	CR	23.078		5DB1	approved	Alcatel
N2-010963	CAMEL4	Rel-5	Route not permitted IE in ERB in the case of MF	CR	23.078		5dA1	approved	Siemens AG
N2-010964	CAMEL4	Rel-5	Route not permitted IE in ERB in the case of MF	CR	29.078		d5.3.0	approved	Siemens AG
N2-010972	CAMEL4	Rel-5	Corrections to Process CAMEL_ICA_MSC	CR	23.078	1	5DB1	approved	Vodafone Group Plc
N2-010979	CAMEL4	Rel-5	Introduction of SDLs for the imcnSSF	CR	23.278		1.0.0	approved	Lucent Technologies
N2-011001	CAMEL4	Rel-5	Move of definition of GPRSChargingID to 29.002	CR	29.078		d5.5.0	approved	Vodafone
N2-011006	CAMEL4	Rel-5	Corrections in the ATI mechanism description	CR	23.018			endorsed	France Telecom
N2-011023	CAMEL4	Rel-5	Enhancements to subscriber information reporting in the PS domain	CR	29.002	2	4.5.0	endorsed	Vodafone
N2-011028	CAMEL4	Rel-5	Introduction of MidCall DP in SDLs	CR	23.078	1	5DB1	approved	Vodafone Group Plc
N2-011033	CAMEL4	Rel-5	Introduction of Initiate Call Attempt ack	CR	23.078	2	5DB1	approved	Vodafone Group Plc
N2-011035	CAMEL4	Rel-5	Default Call Handling for NP and NC calls	CR	23.078	1	5DB1	approved	Vodafone Group Plc
N2-011038	CAMEL4	Rel-5	Continue with Argument after Split Leg operation	CR	23.078	1	5DB1	approved	Alcatel
N2-011042	CAMEL4	Rel-5	Tones support for Camel Phase 4	CR	23.078	3	D5B1	approved	Logica
N2-011043	CAMEL4	Rel-5	Update signalling after Move Leg operation	CR	23.078	2	5DB1	approved	Alcatel
N2-011044	CAMEL4	Rel-5	Handling of Disconnect in a multiparty configuration	CR	23.078	2	5DB1	approved	Alcatel

Annex C List of Documents

TDoc #	Type	Title	Source	WI	CR #	Rev	Cat	Spec	Rel	Version	Conclusion
N2-010859	Agenda	Proposed meeting agenda	CN2 chairman								approved
N2-010860	Agenda	Allocation of documents to agenda items	CN2 chairman								approved
N2-010861	Report	Draft Meeting report from CN2#20	MCC								noted
N2-010862	LS IN	Reply Liaison Statement on Unique GGSN address	CN4								noted
N2-010863	WP	Latest version of the Work plan	MCC								noted
N2-010864	WP	Comments on the progress of the CAMEL4 work	CN2 chairman								noted
N2-010865	CR	Introduction of CAMEL Phase 4 (complete)	Vodafone Group Plc	CAMEL4		8	B	23.018	Rel-5	5.1.0	noted
N2-010866	CR	Introduction of CAMEL Phase 4 (condensed)	Vodafone Group Plc	CAMEL4			B	23.018	Rel-5	5.1.0	noted on joint meeting with CN4
N2-010867	CR	Introduction of CAMEL Phase 4 (complete)	Vodafone Group Plc	CAMEL4		1	B	23.079	Rel-5	4.0.0	noted on joint meeting with CN4
N2-010868	CR	Introduction of CAMEL Phase 4 (condensed)	Vodafone Group Plc	CAMEL4			B	23.079	Rel-5	4.0.0	noted
N2-010869	CR	Introduction of CAMEL Phase 4	Vodafone Group Plc	CAMEL4			B	23.083	Rel-5	4.2.0	noted on joint meeting with CN4
N2-010870	Discussion	CPH: Open Issues and Decisions	Vodafone Group Plc	CAMEL4							noted
N2-010871	CR	Correction to Procedure "Handle_AC" (missing check box exit)	Ericsson	CAMEL3	345		F	23.078	R99	3.10.0	approved
N2-010872	CR	Introduction of Initiate Call Attempt ack	Vodafone Group Plc	CAMEL4			C	23.078	Rel-5	5DB1	revised to N2-010971

N2-010873	CR	Introduction of Initiate Call Attempt ack	Vodafone Group Plc	CAMEL4			C	29.078	Rel-5	d5.5.0	approved
N2-010874	CR	Moving to MidCall DP after CPH operation	Vodafone Group Plc	CAMEL4			C	23.078	Rel-5	5DB1	revised to N2-011037
N2-010875	CR	Moving to MidCall DP after CPH operation	Vodafone Group Plc	CAMEL4			D	29.078	Rel-5	d5.5.0	postponed
N2-010876	CR	Corrections to Process CAMEL_ICA_MSC	Vodafone Group Plc	CAMEL4			F	23.078	Rel-5	5DB1	revised to N2-010972
N2-010877	CR	Disconnect Leg and Move Leg operation in Alerting phase	Vodafone Group Plc	CAMEL4			B	23.018	Rel-5		noted
N2-010878	CR	Disconnect Leg and Move Leg operation in Alerting phase	Vodafone Group Plc	CAMEL4			B	23.078	Rel-5	5DB1	revised to N2-010973
N2-010879	CR	Disconnect Leg and Move Leg operation in Alerting phase	Vodafone Group Plc	CAMEL4			B	23.083	Rel-5		noted
N2-010880	CR	Clarification on Releasing Individual Call Parties	Vodafone Group Plc	CAMEL4			C	22.078	Rel-5	5.4.0	noted
N2-010881	CR	Disconnect Leg operation at unsuccessful call establishment DP	Vodafone Group Plc	CAMEL4			B	23.018	Rel-5		noted
N2-010882	CR	Disconnect Leg operation at unsuccessful call establishment DP	Vodafone Group Plc	CAMEL4			B	23.078	Rel-5	5DB1	noted
N2-010883	CR	Disconnect Leg operation at unsuccessful call establishment DP	Vodafone Group Plc	CAMEL4			B	23.083	Rel-5		noted
N2-010884	CR	Introduction of MidCall DP in SDLs	Vodafone Group Plc	CAMEL4			B	23.078	Rel-5	5DB1	revised to N2-011028
N2-010885	Candidature	Candidature for the Vice Chairman position	Vodafone Group Plc								Ruth Hewson was elected for Vice Chairman pos.

N2-010886	CR	Corrections in the ATI mechanism description	France Telecom	CAMEL3			F	23.018	R99	3.9.0	revised to N2-010975
N2-010887	CR	Corrections in the Call Information Report/Request operation	France Telecom	CAMEL3	346		F	23.078	R99	3.10.0	revised to N2-010999
N2-010888	CR	Active Location Retrieval in PS domain	France Telecom	CAMEL4			C	23.078	Rel-5	5DB1	withdrawn
N2-010889	INFO	CR 22.078-128r1 on Introduction of subscriber status information in PS domain	Vodafone	CAMEL4			C	22.078	Rel-5	5.4.0	noted
N2-010890	CR	Enhancements to subscriber information reporting in the PS domain	Vodafone	CAMEL4			C	23.078	Rel-5	5DB1	revised to N2-010939
N2-010891	CR	Enhancements to subscriber information reporting in the PS domain	Vodafone	CAMEL4			C	29.002	Rel-5	4.5.0	revised to N2-011022
N2-010892	CR	ApplyCharging shall be allowed in a control relationship only	Ericsson	CAMEL3	212		F	29.078	R99	3.9.0	approved
N2-010893	CR	Correction to IMPORT statements	Ericsson	CAMEL3	213		F	29.078	R99	3.9.0	approved
N2-010894	CR	Correction to reference for the encoding of Called Party Number	Ericsson	CAMEL3	214		F	29.078	R99	3.9.0	approved
N2-010895	CR	Tccd shall be stopped in procedure Handle_ACR	Ericsson	CAMEL3	347		F	23.078	R99	3.10.0	approved
N2-010896	CR	Correction to ECT Treatment Indicator description	Ericsson	CAMEL3	348		F	23.078	R99	3.10.0	approved
N2-010897	CR	Correction to process gsmSSF - check for existence of leg 1 at CON and CWA	Ericsson	CAMEL3	349		F	23.078	R99	3.10.0	rejected
N2-010898	CR	ContinueWithArgument shall not be allowed at DP T-Busy and DP T-NoAnswer	Ericsson	CAMEL3	350		F	23.078	R99	3.10.0	rejected
N2-010899	CR	Reporting QoS changes shall not be restricted to "User initiated" QoS changes	Ericsson	CAMEL3	351		F	23.078	R99	3.10.0	approved
N2-010900	CR	Correction to preconditions for ActivityTestGPRS	Ericsson	CAMEL3	215		F	29.078	R99	3.9.0	revised to N2-010994
N2-010901	CR	Correction to error handling description for Initial DP operations	Ericsson	CAMEL3	216		F	29.078	R99	3.9.0	revised to N2-010982
N2-010902	CR	Correction to references for the encoding of APN	Ericsson	CAMEL3	217		F	29.078	R99	3.9.0	revised to N2-010955
N2-010903	CR	Transferring MS classmark information to the gsmSCF	Vodafone	CAMEL4			C	23.078	Rel-5	5DB1	noted

N2-010904	CR	Transferring the IMEI to the gsmSCF	Vodafone	CAMEL4			C	29.078	Rel-5	D5.5.0	revised to N2-011017
N2-010905	CR	Transferring MS classmark information to the gsmSCF	Vodafone	CAMEL4			C	29.002	Rel-5	4.5.0	noted
N2-010906	CR	Guidance to the usage of SCI-GPRS in the case of no support of AoC	Ericsson	CAMEL3	352		F	23.078	R99	3.10.0	revised to N2-010997
N2-010907	CR	The use of "White TCAP" shall be mandated for CAP	Ericsson	CAMEL3	218		F	29.078	R99	3.9.0	revised to N2-010984
N2-010908	CR	Correction to CAP dialogue termination rules	Ericsson	CAMEL3	353		F	23.078	R99	3.10.0	postponed
N2-010909	CR	Changes to allow initiaition of a control/monitoring relationship with CSE at DP3	CDOT	CAMEL4			C	23.018	Rel-5		withdrawn
N2-010910	CR	Changes in gsmCCF for MO calls to allow initiaition of a control/monitoring relationship with CSE at DP3	CDOT	CAMEL4			C	23.078	Rel-5	5DB1	withdrawn
N2-010911	CR	Changes in gsmCCF for MF calls to allow initiaition of a control/monitoring relationship with CSE at DP3	CDOT	CAMEL4			C	23.078	Rel-5	5DB1	withdrawn
N2-010912	CR	Changes in gsmCCF for NP calls to allow initiaition of a control/monitoring relationship with CSE at DP3	CDOT	CAMEL4			C	23.078	Rel-5	5DB1	withdrawn
N2-010913	CR	Changes in gsmSSF to allow initiaition of a control/monitoring relationship with CSE at DP3	CDOT	CAMEL4			C	23.078	Rel-5	5DB1	withdrawn
N2-010914	CR	Modifications in Connect operation to support control/monitoring relationship with CSE at DP3 for MF calls	CDOT	CAMEL4			C	29.078	Rel-5		withdrawn
N2-010915	CR	Introduction of a variable in InitialDP operation to indicate control/monitoring relationship with CSE at DP3	CDOT	CAMEL4			C	29.078	Rel-5		withdrawn
N2-010916	CR	Handling of RNC and ENC operations in a CPH configuration	CDOT	CAMEL4			C	23.078	Rel-5	5DB1	withdrawn
N2-010917	CR	Handling of RNC and ENC operations in a CPH configuration	CDOT	CAMEL4			C	29.078	Rel-5		withdrawn
N2-010918	CR	Moving CAMEL related sections from TS 23.218 to TS 23.078	Nokia	CAMEL4			C	23.078	Rel-5	5DB1	conditionally approved, if CN1 approved
N2-010919	CR	Clarifications on th usage of PSI	Ericsson	CAMEL4			C	23.078	Rel-5	d5A1	postponed
N2-	CR	Clarifications on the handling of the	Ericsson	CAMEL4			C	23.078	Rel-5	d5A1	withdrawn

010920		flexible warning tone									
N2-010921	CR	Correction to GPRS Dialogue Handler	Ericsson	CAMEL3	354		F	23.078	R99	3.10.0	postponed
N2-010922	CR	Correction to GPRS operation error handling	Ericsson	CAMEL3	219		F	29.078	R99	3.9.0	postponed
N2-010923	CR	Disconnect Leg operation at unsuccessful call establishment DP	Vodafone Group Plc	CAMEL4			B	23.079	Rel-5		noted
N2-010924	CR	Correction to CAMEL4 handling	Vodafone Group Plc	CAMEL4			F	23.018	Rel-5		noted
N2-010925	CR	Correction to Procedure CAMEL_OCH_RECONNECT_MSC	Vodafone Group Plc	CAMEL4			F	23.078	Rel-5	5DB1	approved
N2-010926	CR	Default Call Handling for NP and NC calls	Vodafone Group Plc	CAMEL4			B	23.078	Rel-5	5DB1	revised to N2-011035
N2-010927	CR	Handling of CPH configuration after CAP dialogue ends	Vodafone Group Plc	CAMEL4			B	23.078	Rel-5	5DB1	revised to next meeting
N2-010928	CR	Clarification on Connect and ContinueWithArgument about the SII2	Alcatel SA	CAMEL3	355		F	23.078	R99	3.10.0	revised to N2-011012
N2-010929	CR	Syntax error on notificationToCSE in the ATM result	Alcatel SA	CAMEL3			F	29.002	R99	3.10.0	endorsed
N2-010930	CR	Syntax error in the ATM result and ATSI result	Alcatel SA	CAMEL3			F	29.002	R99	3.10.0	endorsed
N2-010931	CR	Request of multiple SS-Code changes in the ATM request	Alcatel SA	CAMEL3	356		F	23.078	R99	3.10.0	noted on joint meeting with CN4
N2-010932	CR	Request of multiple SS-Code changes in the ATM request	Alcatel SA	CAMEL3	222		F	29.078	R99	3.10.0	noted by CN2, jointly with CN4 postponed
N2-010933	CR	Clarification on AnyTimeSubscriptionInterrogation result in case of mutiple SS-Code	Alcatel SA	CAMEL3	357		F	23.078	R99	3.10.0	noted on joint meeting with CN4
N2-010934	CR	Clarification on AnyTimeSubscriptionInterrogation result in case of mutiple SS-Code	Alcatel SA	CAMEL3	223		F	29.078	R99	3.10.0	noted on joint meeting with CN4

N2-010935	CR	Sending of NoteSubscriberDataModified operation relative to consistent data changes	Alcatel SA	CAMEL3	358		F	23.078	R99	3.10.0	noted on joint meeting with CN4
N2-010936	CR	Sending of NoteSubscriberDataModified operation relative to consistent data changes	Alcatel SA	CAMEL3			F	29.002	R99	3.10.0	noted by CN2, postponed by joint meeting
N2-010937	CR	Clarification on ATM about simultaneous SS modifications	Alcatel SA	CAMEL3	359		F	23.078	R99	3.10.0	revised to N2-010976
N2-010938	CR	Introduction of SDLs for the imcnSSF	Lucent Technologies	CAMEL Phase 4				23.278	Rel-5		revised to N2-010979
N2-010939	CR	Enhancements to subscriber information reporting in the PS domain	Vodafone	CAMEL4		1	C	23.078	Rel-5	5DB1	revised to N2-011021
N2-010940	CR	Corrections in the ATI mechanism description	France Telecom	CAMEL 3			A	23.018	Rel-4	4.4.0	revised to N2-011005
N2-010941	CR	Corrections in the ATI mechanism description	France Telecom	CAMEL 4			A	23.018	Rel-5	5.1.0	revised to N2-01106
N2-010942	CR	Correction in the Call Information Report/Request operation	France Telecom	CAMEL 3	360		A	23.078	Rel-4	4.2.0	rejected (same content in N2-011000)
N2-010943	CR	Correction in the Call Information Report/Request operation	France Telecom	CAMEL 4			A	23.078	Rel-5	5DB1	noted
N2-010944	CR	Re-initialisation of the CAMEL GPRS dialogue after a relocation cancel	Alcatel	CAMEL3			F	23.060	R99	3.9.0	revised to N2-010986
N2-010945	CR	23.008 Collective CR	Alcatel	CAMEL4			B	23.008	REL-5	4.1.0	noted
N2-010946	CR	Handling of Connect in a multiparty configuration	Alcatel	CAMEL4			F	23.078	Rel-5	5DB1	approved
N2-010947	CR	Handling of Disconnect in a multiparty configuration	Alcatel	CAMEL4			F	23.078	Rel-5	5DB1	revised to N2-011036
N2-010948	CR	Update signalling after Move Leg operation	Alcatel	CAMEL4			F	23.078	Rel-5	5DB1	revised to N2-011034
N2-010949	CR	Continue with Argument after Split Leg operation	Alcatel	CAMEL4			F	23.078	Rel-5	5DB1	revised to N2-011038

N2-010950	CR	Handling of ContinueWithArgument considering CPH and further EDPs.	Alcatel	CAMEL4			F	23.078	Rel-5	5DB1	approved
N2-010951	CR	Handling of Continue considering CPH and further EDPs.	Alcatel	CAMEL4			F	23.078	Rel-5	5DB1	approved
N2-010952	CR	Re-initialisation of the CAMEL GPRS dialogue after a relocation cancel	Alcatel	CAMEL3			F	23.060	Rel-4	4.2.0	revised to N2-010987
N2-010953	DISC	CAMEL Phase 4: Introduction of functional subsets for the CAMEL phase negotiation	T-Mobil	CAMEL4							noted
N2-010954	CR	Correction to Advice of Charge for MT calls	Ericsson	CAMEL3	361		F	23.078	R99	3.10.0	postponed
N2-010955	CR	Error handling for sequential TCAP Operation components	Ericsson	CAMEL3	220		F	29.078	R99	3.9.0	postponed
N2-010956	CR	Collective CAMEL Phase 4 CR on TS 29.002	Ericsson	CAMEL4			B	29.002	Rel-5		noted on the joint meeting with CN4
N2-010957	CR	CAMEL Phase 4 draft for 29.078 (V5.5.0)	Ericsson	CAMEL4			B	29.078	Rel-5	5.5.0	noted
N2-010958	DISC	Editorial and technical conventions for TS 29.078	Ericsson	CAMEL4				29.078		5dB1	postponed
N2-010959	TS/INFO	Draft 23.078 V5D.11.1	Rapporteur	CAMEL4				23.078	Rel-5	5dA1	noted
N2-010960	CR	ACR with ENC	Siemens AG	CAMEL4				23.078	Rel-5	5dA1	postponed to next meeting
N2-010961	CR	Inclusion of ODB data in ATM	Siemens AG	CAMEL4			B	23.078	Rel-5	5dA1	revised to N2-011031
N2-010962	CR	Inclusion of ODB data in ATM	Siemens AG	CAMEL4				29.002	Rel-5	4.4.0	revised to N2-011032
N2-010963	CR	Route not permitted IE in ERB in the case of MF	Siemens AG	CAMEL4				23.078	Rel-5	5dA1	approved
N2-010964	CR	Route not permitted IE in ERB in the case of MF	Siemens AG	CAMEL4				29.078	Rel-5	d5.3.0	approved
N2-010965	DISC	CAMEL registration procedure in IMS	Siemens AG	CAMEL4							noted
N2-010966	DISC	CAMEL control of call duration in IMS	Siemens AG	CAMEL4							withdrawn
N2-010967	CR	Tones support for Camel Phase 4	Logica	CAMEL4		1	B	23.078	Rel-5	D5B1	revised to N2-011030

N2-010968	CR	Alignment of tables A.1 and A.2 with stage 2	Alcatel	CAMEL3			F	22.078	R99	3.8.0	revised to N2-010988
N2-010969	CR	Tones support for Camel Phase 4	Logica	CAMEL4		3	B	29.078	Rel-5	d5.5.0	postponed to next meeting
N2-010970	CR	Correction to GPRS parameters encoding	Ericsson	CAMEL3	221		F	29.078	R99	3.9.0	e-mail approval, deadline 7th of Dec, 23:59 CET
N2-010971	CR	Introduction of Initiate Call Attempt ack	Vodafone Group Plc	CAMEL4		1	C	23.078	Rel-5	5DB1	revised to N2-011033
N2-010972	CR	Corrections to Process CAMEL_ICA_MSC	Vodafone Group Plc	CAMEL4		1	F	23.078	Rel-5	5DB1	approved
N2-010973	CR	Disconnect Leg and Move Leg operation in Alerting phase	Vodafone Group Plc	CAMEL4		1	B	23.078	Rel-5	5DB1	noted
N2-010974	CR	Collective CR to 23.016	Siemens AG				B	23.016	Rel-5	4.0.0	noted on the joint meeting with CN4
N2-010975	CR	Corrections in the ATI mechanism description	France Telecom	CAMEL3		1	F	23.018	R99	3.9.0	revised to N2-011002
N2-010976	CR	Clarification on ATM about simultaneous SS modifications	Alcatel SA	CAMEL3	359	1	F	23.078	R99	3.10.0	approved
N2-010977	CR	Clarification on ATM about simultaneous SS modifications	Alcatel SA	CAMEL3	362		A	23.078	Rel-4	4.2.0	approved
N2-010978	CR	Clarification: use of SS-Code in ATM, ATSI and NSDC	Siemens AG	CAMEL3	363		F	23.078	R99	3.10.0	revised to N2-010991
N2-010979	CR	Introduction of SDLs for the imcnSSF	Lucent Technologies	CAMEL4				23.278	Rel-5	1.0.0	approved
N2-010980	Disc	Specification at Si Interface	Siemens	CAMEL4							noted
N2-010981	CR	Correction to IMPORT statements	Ericsson	CAMEL3	222		A	29.078	Rel-4	4.2.0	approved
N2-010982	CR	Correction to error handling description for Initial DP operations	Ericsson	CAMEL3	216	1	F	29.078	R99	3.9.0	approved
N2-010983	CR	Correction to error handling description for Initial DP operations	Ericsson	CAMEL3	223		A	29.078	Rel-4	4.2.0	approved

N2-010984	CR	The use of "White TCAP" shall be mandated for CAP	Ericsson	CAMEL3	218	1	F	29.078	R99	3.9.0	approved
N2-010985	CR	The use of "White TCAP" shall be mandated for CAP	Ericsson	CAMEL3	224		F	29.078	Rel-4	4.2.0	approved
N2-010986	CR	Re-initialisation of the CAMEL GPRS dialogue after a relocation cancel	Alcatel	CAMEL3		1	F	23.060	R99	3.9.0	revised to N2-011013
N2-010987	CR	Re-initialisation of the CAMEL GPRS dialogue after a relocation cancel	Alcatel	CAMEL3		1	F	23.060	Rel-4	4.2.0	revised to N2-011014
N2-010988	CR	Alignment of tables A.1 and A.2 with stage 2	Alcatel	CAMEL3		1	F	22.078	R99	3.8.0	endorsed
N2-010989	CR	Alignment of tables A.1 and A.2 with stage 2	Alcatel	CAMEL3			A	22.078	Rel-4		endorsed
N2-010990	CR	Reporting QoS changes shall not be restricted to "User initiated" QoS changes	Ericsson	CAMEL3	364		A	23.078	Rel-4	4.2.0	approved
N2-010991	CR	Clarification: use of SS-Code in ATM, ATSI and NSDC	Siemens AG	CAMEL3	363	1	F	23.078	R99	3.10.0	revised to N2-011018
N2-010992	CR	CAMEL trigger point C1 for the SRNS relocation procedure	Alcatel	CAMEL3			F	23.060	R99	3.9.0	revised to N2-011015
N2-010993	CR	CAMEL trigger point C1 for the SRNS relocation procedure	Alcatel	CAMEL3			A	23.060	Rel-4	4.2.0	revised to N2-011016
N2-010994	CR	Correction to preconditions for ActivityTestGPRS	Ericsson	CAMEL3	215	1	F	29.078	R99	3.9.0	approved
N2-010995	CR	Correction to references for the encoding of APN	Ericsson	CAMEL3	217	1	F	29.078	R99	3.9.0	approved
N2-010996	CR	Correction to references for the encoding of APN	Ericsson	CAMEL3	225		A	29.078	Rel-4	4.2.0	approved
N2-010997	CR	Guidance to the usage of SCI-GPRS in the case of no support of AoC	Ericsson	CAMEL3	352	1	F	23.078	R99	3.10.0	approved
N2-010998	CR	Correction to Procedure "Handle_AC" (missing check box exit)	Ericsson	CAMEL3	365		A	23.078	Rel-4	4.2.0	approved
N2-010999	CR	Corrections in the Call Information Report/Request operation	France Telecom	CAMEL3	346	1	F	23.078	R99	3.10.0	approved
N2-011000	CR	Corrections in the Call Information Report/Request operation	France Telecom	CAMEL3	366		A	23.078	Rel-4	4.2.0	approved
N2-011001	CR	Move of definition of GPRSChargingID to 29.002	Vodafone	CAMEL4			C	29.078	Rel-5	d5.5.0	approved
N2-011002	CR	Corrections in the ATI mechanism description	France Telecom	CAMEL3		2	F	23.018	R99	3.9.0	endorsed

N2-011003	CR	Clarification on AnyTimeSubscriptionInterrogation result in case of mutiple SS-Code	Alcatel	CAMEL3			F	29.002	R99	3.10.0	noted
N2-011004	CR	Request of multiple SS-Code changes in the ATM request	Alcatel	CAMEL3			F	29.002	R99	3.10.0	noted
N2-011005	CR	Corrections in the ATI mechanism description	France Telecom	CAMEL3		1	A	23.018	Rel-4	4.4.0	endorsed
N2-011006	CR	Corrections in the ATI mechanism description	France Telecom	CAMEL4			C	23.018	Rel-5		endorsed
N2-011007	CR	ApplyCharging shall be allowed in a control relationship only	Ericsson	CAMEL3	226		A	29.078	Rel-4	4.2.0	approved
N2-011008	CR	Correction to reference for the encoding of Called Party Number	Ericsson	CAMEL3	227		A	29.078	Rel-4	4.2.0	approved
N2-011009	CR	Tccd shall be stopped in procedure Handle_ACR	Ericsson	CAMEL3	367		A	23.078	Rel-4	4.2.0	approved
N2-011010	CR	Correction to ECT Treatment Indicator description	Ericsson	CAMEL3	368		A	23.078	Rel-4	4.2.0	approved
N2-011011	CR	Correction to precondition of ContinueWithArgument	Ericsson	CAMEL3	227		F	29.078	R99	3.9.0	approved
N2-011012	CR	Clarification on Connect and ContinueWithArgument about the SII2	Alcatel SA	CAMEL3	355	1	F	23.078	R99	3.10.0	approved
N2-011013	CR	Re-initialisation of the CAMEL GPRS dialogue after a relocation cancel	Alcatel	CAMEL3		2	F	23.060	R99	3.9.0	endorsed
N2-011014	CR	Re-initialisation of the CAMEL GPRS dialogue after a relocation cancel	Alcatel	CAMEL3		2	F	23.060	Rel-4	4.2.0	endorsed
N2-011015	CR	CAMEL trigger point C1 for the SRNS relocation procedure	Alcatel	CAMEL3		1	F	23.060	R99	3.9.0	endorsed
N2-011016	CR	CAMEL trigger point C1 for the SRNS relocation procedure	Alcatel	CAMEL3		1	A	23.060	Rel-4	4.2.0	endorsed
N2-011017	CR	Transferring the IMEI to the gsmSCF	Vodafone	CAMEL4		1	C	29.078	Rel-5	D5.5.0	noted
N2-011018	CR	Clarification: use of SS-Code in ATM, ATSI and NSDC	Siemens AG	CAMEL3	363	2	F	23.078	R99	3.10.0	revised to N2-011024
N2-011019	LS OUT	CAMEL Phase 4: Liaison Statement on Functional Subsets	T-Mobil	CAMEL4							revised to N2-011029
N2-011020	LS OUT	Liaison Statement on Mobility Management event reporting in the PS domain	Vodafone								approved

N2-011021	CR	Enhancements to subscriber information reporting in the PS domain	Vodafone	CAMEL4		2	C	23.078	Rel-5	5DB1	revised for next meeting
N2-011022	CR	Enhancements to subscriber information reporting in the PS domain	Vodafone	CAMEL4		1	C	29.002	Rel-5	4.5.0	revised to N2-011023
N2-011023	CR	Enhancements to subscriber information reporting in the PS domain	Vodafone	CAMEL4		2	C	29.002	Rel-5	4.5.0	endorsed
N2-011024	CR	Clarification: use of SS-Code in ATM, ATSI and NSDC	Siemens AG	CAMEL3	363	3	F	23.078	R99	3.10.0	revised to N2-011040
N2-011025		Correction to preconditions for ActivityTestGPRS	Ericsson	CAMEL3	228		A	29.078	Rel-4	4.2.0	approved
N2-011026	CR	Guidance to the usage of SCI-GPRS in the case of no support of AoC	Ericsson	CAMEL3	369		A	23.078	Rel-4	4.2.0	approved
N2-011027	CR	Clarification on Connect and ContinueWithArgument about the SII2	Alcatel SA	CAMEL3	370		A	23.078	Rel-4	4.2.0	approved
N2-011028	CR	Introduction of MidCall DP in SDLs	Vodafone Group Plc	CAMEL4		1	B	23.078	Rel-5	5DB1	approved
N2-011029	LS OUT	CAMEL Phase 4: Liaison Statement on Functional Subsets	T-Mobil	CAMEL4							approved
N2-011030	CR	Tones support for Camel Phase 4	Logica	CAMEL4		2	B	23.078	Rel-5	D5B1	revised to N2-011042
N2-011031	CR	Inclusion of ODB data in ATM	Siemens AG	CAMEL4		1	B	23.078	Rel-5	5dA1	revised to next meeting
N2-011032	CR	Inclusion of ODB data in ATM	Siemens AG	CAMEL4		1		29.002	Rel-5	4.4.0	revised to next meeting
N2-011033	CR	Introduction of Initiate Call Attempt ack	Vodafone Group Plc	CAMEL4		2	C	23.078	Rel-5	5DB1	approved
N2-011034	CR	Update signalling after Move Leg operation	Alcatel	CAMEL4		1	F	23.078	Rel-5	5DB1	revised to N2-011043
N2-011035	CR	Default Call Handling for NP and NC calls	Vodafone Group Plc	CAMEL4		1	B	23.078	Rel-5	5DB1	approved
N2-011036	CR	Handling of Disconnect in a multiparty configuration	Alcatel	CAMEL4		1	F	23.078	Rel-5	5DB1	revised to N2-011044
N2-011037	CR	Moving to MidCall DP after CPH operation	Vodafone Group Plc	CAMEL4			C	23.078	Rel-5	5DB1	postponed to next meeting

N2-011038	CR	Continue with Argument after Split Leg operation	Alcatel	CAMEL4		1	F	23.078	Rel-5	5DB1	approved
N2-011039	CR	Correction to precondition of ContinueWithArgument	Ericsson	CAMEL3	229		A	29.078	Rel-4	4.2.0	approved
N2-011040	CR	Clarification: use of SS-Code in ATM, ATSI and NSDC	Siemens AG	CAMEL3	363	4	F	23.078	R99	3.10.0	approved
N2-011041	CR	Clarification: use of SS-Code in ATM, ATSI and NSDC	Siemens AG	CAMEL3	371		A	23.078	Rel-4	4.2.0	approved
N2-011042	CR	Tones support for Camel Phase 4	Logica	CAMEL4		3	B	23.078	Rel-5	D5B1	approved
N2-011043	CR	Update signalling after Move Leg operation	Alcatel	CAMEL4		2	F	23.078	Rel-5	5DB1	approved
N2-011044	CR	Handling of Disconnect in a multiparty configuration	Alcatel	CAMEL4		2	F	23.078	Rel-5	5DB1	approved
N2-011045	CR	Correction to GPRS parameters encoding	Ericsson	CAMEL3	230		A	29.078	Rel-4	4.2.0	e-mail approval, deadline 7th of Dec, 23:59 CET