3GPP TSG CN Plenary Meeting #12 **Tdoc NP-010306**

Source:	**TSG CN WG2**
Title:	**CN2#18 Meeting Report**
Agenda item:	**6.2.1**
Document for:	**Information**

Draft Meeting report, version 1, 5th May 2001

Meeting Report

TSG CN WG2#18
Puerto Rico, USA

14 – 18 May, 2001

Chairman: Keijo Palviainen (Nokia)

Secretary: Andrijana Jurisic (MCC)

Host: The North American Friends of 3GPP

List of participants:	Annex A
Output documents	Annex B
Tdoc list (incl. the status)	Annex C
Joint meeting between CN1/2/3/4	Annex D

Documents could be found on the 3GPP-server:

ftp://ftp.3gpp.org/TSG_CN/WG2_camel/Plenary/TSGN2_18_PuertoRico/Docs

1 Opening of the meeting and approval of the agenda

N2-010278 : CN2 chairman, Title: Proposed meeting agenda

Discussion : It is agreed meeting will start at 8 a.m. and end at 5 p.m. every day

Conclusion :Approved

2 Allocation of documents to agenda items

N2-010364 : MCC, Title: Tdoc list before CN2#16 starts

Discussion :

Conclusion : Noted

N2-010279 : CN2 chairman, Title: Alocation of documents to agenda items

Discussion : Document 281 is CN2 year 2001 meeting calendar, source is MCC. Document 366 will be CN2 year 2002 meeting calendar provided by CN2 chairmen. Tdoc 356 and 357 are R99 documents related to CAMEL3 and will be allocated to agenda item 6.4.

CR#296 is allocated for document 356, and CR 175 is allocated for document 357. Those CRs will need mirror CRs for Rel-4. Document 360 is revised to 367. Document 326 is discussion document will be the first document on the item 8.4. C-DOT documents will be presented not before Wednesday and paper copies should be provided before presentation. New document from Ericsson for the agenda item 6.3 (CAMEL3/GPRS) will be provided during the meeting.

Conclusion : Noted

3 Reports

N2-010327 : MCC, Title: Draft Meeting Report CN2#17, Sophia Antipolis

Discussion :

Conclusion: Aproved

N2-010332 : C2 chairman, Title: Report from CAMEL4 CPH adHoc Meeting, Newburry

Discussion :

Conclusion: Aproved

N2-010328: MCC, Title: Draft Meeting report from CN#11

Discussion:

Conclusion: Noted

N2-010329: MCC, Title: Draft Meeting report from SA#11

Discussion: In the last plenary first Rel-4 was introduced. All the 99 CRs have to be mirrored to Rel-4.

Conclusion:Noted

N2-010365 : Lucent , Title: Report from SA1 CAMEL adHoc Meeting, Helsinki

Discussion: Two change requests have been approved against R 99 (Clarification of PDP context QoS change notification to the CSE and Clarification of CUG requirements). Three change requests introduce new functionality for

CAMEL Phase 4 (Inclusion of ODB data in ATM, Location information during an ongoing call and Enhance ATI operation (CAMEL4) – GPRS Location).
Next SA1 AdHoc meeting will be 25th of June and the topics for discussion will be requirements of CAMEL on IP Multimedia Subsystem and CPH charging requirements. One LS statement from this meeting will be provided as Tdoc 369. Title is LS statement on Charging requirements for call party handling, source: SA1 adHoc and will be under agenda item 4.

S1 documents 341,342 and 464 in the report are all Rel-5. Rel-5 could implement GPRS QoS according to SA1. Rel-5 CR was withdrawn in SA1.Updated document will be provided. Document N2-010365 is revised to N2-010370.

Conclusion:Revised to 370

N2-010370: SA1 , Title: Report from SA1 CAMEL adHoc Meeting, Helsinki

Discussion:

Conclusion: Noted

4 Input Liaison Statements

N2-010330 : SA1, Type: LS IN , Title: LS on IMS Service Provision

Discussion : SA2 discussed the subject on Service Provision for the IM Subsystem and came to the following conclusion which is brought to the attention of SA, SA1 and CN working groups:Besides the Cx interface SA2 agreed on a single standardised protocol to be supported by the S-CSCF for service control. Guidelines for further details are summarised in a new chapter to 23.228. This details are given in S2-010797 which is approved by S2 and attached to this LS.

CAP interface between IM SSF and CSE will not change. Only service control is showed on the diagram in attachment. Using interface which is closed to SIP interface SA tried to come up with a single interface to S-CSCF. SIP+ name needs to be changed

IM SSF includes CCF and BCSM also. Do we need to change BCSM? CN2 should specify IM SSF and CN1 shall specify SIP+. CSI downloading is opened question for CN1.

What is the protocol between between IM SSF and S-CSCF – Some companies propose control protocol and some propose standard SIP?

S-CSCF will have a filter function to filter messages which will be delivered to IM SSF. IMS SSF does not have a full call state. IMS SSF could tell the armed EDPs to CSCF to change3 filtering dynamicaly.

Peter Kim SA2 delegate, proposed to write all the questions to S2 in form of LS statement. One of the questions is where is the basic call state maschine defined.

Conclusion: Noted

N2-010369 : SA1 adHoc, Type: LS IN , Title: LS "Charging requirements for Call Party Handling"

Discussion: TSG SA WG1 asks TSG CN WG2 to recognise the charging requirements for CPH are still under discussion. CN2 to provide the response to LS statement discussed in form of LS statement to SA1. Siemens things that requirements from operators have to be taken in to consideration. Sumio will send open questions to the mailing list. Alcatel document is implementation related and it will be taken in consideration regarding summary of open issues. Siemens would like to have concrete quidance to CPH issues.

Conclusion: Noted

N2-010458: Excpected LS IN from SA1

Conclusion: LS was not received

5 Work item management & miscellaneous

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 does not need to be declared at the WG meeting but should go to the respective organization. No IPRs were declared.

5.2 Work Item (WI) status review

N2-010331 : MCC, Type: Discussion , Title: Latest version of the Workplan

Discussion : CN2 chairman will make sumarry of progress of the existing tasks. MCC will update work plan and add new tasks accordingly.

Conclusion: Noted

N2-010372: CN2 Chairman,Title:CN2#18 comments on the work plan

Discussion :After approval source will become CN2.

Conclusion: Revised to 471

N2-010471: CN2 Chairman,Title:CN2#18 comments on the work plan

Discussion :

Conclusion: Approved

N2-010363: MCC, Type:info, Title: List of CN2 specifications after TSG#11

Discussion: Specs DB has to be changed, because R96 have a wrong title. Status list is maintained by MCC , on the server, after each plenary. This document will not be sent to plenary.

Conclusion: Noted

5.3 Meeting calendar of year 2002

N2-010366 : CN2 chairman, Title: CN2 year 2002 meeting calendar

Discussion: There will be six coolocated meetings in year 2002. Comments to the work plan will be sent to the plenary. Siemens requests that the meeting place have to be covered by GSM network.

Conclusion :Noted

5.4 CAMEL4 CN Work Item Description

N2-010280 : CN2 Chairman, Type: WID, Title: Rel-5 CAMEL4 scope in Rel-5 for TSG-CN

Discussion : 23.060 will be added in the list of specifications.

Conclusion: Revised to 371

N2-010371 : CN2 Chairman, Type: WID, Title: Rel-5 CAMEL4 scope in Rel-5 for TSG-CN

Discussion : WID will be entered to the Work plan with a level of approval WG.

Conclusion: Approved without presentation

6 CAMEL3, Resolution of outstanding issues for Release 99

6.1 CAMEL3, Miscellaneous

N2-010307 : 23.008, R99, Vodafone, Type: CR, Title: Supported CAMEL Phases in VLR is temporary

Discussion : "Supported CAMEL Phases in VLR" is currently marked as permanent data in the HLR and are changed to temporary data, so that it can be updated when the subscriber changes VLR. "Negotiated Camel Phases" are also temporary fields.

Conclusion : Revised to 377

N2-010377: 23.008, R99, Vodafone, Type: CR, Title: Supported CAMEL Phases in VLR is temporary

Discussion: Revised document will be provided to MCC.

Conclusion: Endorsed without presentation, sent to CN4

N2-010362 : 23.008 Rel-4, Vodafone, Type: CR, Title: Supported CAMEL Phases in VLR is temporary

Discussion :

Conclusion :Revised to 378

N2-010378: 23.008 Rel-4, Vodafone, Type: CR, Title: Supported CAMEL Phases in VLR is temporary

Discussion:

Conclusion: Endorsed without presentation, will be sent to CN4

N2-010323 : 29.078 , CR161, R99, Ericsson, Type: CR, Title: Correction to IMPORT statements

Discussion : The present CR proposes to add "ExtensionField" to the IMPORT statement in section 8.1 for the data type definitions from CAP-datatypes and to add an IMPORT statement in section 5.1 of 29.078 to IMPORT "ExtensionContainer" from 29.002. This MAP data module shall be referenced in section 2.1 as well.

Change the cover sheet instead of essential correction to Correction. Relevant CR to Rel-4 needed. CCITT(0) is used for most parameters, not (4). Category is marked as F (essential correction).

Conclusion :revised to 384

N2-010384 : 29.078 , CR161, R99, Ericsson, Type: CR, Title: Correction to IMPORT statements

Discussion :

Conclusion :Approved without presentation

N2-010385: 29.078, CR176, Rel-4, Ericsson, Type: CR, Title: Correction to IMPORT statements

Discussion : This document is Rel-4 mirror CR to document 384 (R99). CR#176 is allocated during the meeting. It will be included in the draft specification for Rel-5 by Rogier off line.

Conclusion: Approved without presentation

N2-010333 : 29.078 , CR162, R99, Siemens, Type: CR, Title: ASN.1 syntax correction

Discussion : CR corrects certain errors in the ASN.1 description of CAP such as erroneous upper or lower case for parameter of type definitions, missing imports. EstablishTemporaryConnection end-of-bracket is in wrong place. Subcategory has to be specified as essential correction.

The first change shall be cancelled – part of Rogiers tdoc 384.

MCC will check if it is possible within MCC to check all the ASN1 errors (ASN1 compiler) and if ASN1 files could be extracted.

Conclusion : Revised to 386

N2-010386 : 29.078 , CR162, R99, Siemens, Type: CR, Title: ASN.1 syntax correction

Discussion: Revision of Tdoc 333. Originally was approved without presentation, and later revised again.

Conclusion : Revised to 453

N2-010453 : 29.078 , CR162, R99, Siemens, Type: CR, Title: ASN.1 syntax correction

Discussion :Revision of 386

Conclusion : Revised to 456

N2-010456 : 29.078 , CR162, R99, Siemens, Type: CR, Title: ASN.1 syntax correction

Discussion: Revision of 453

Conclusion : approved

N2-010334 : 29.078 , CR163, Rel-4, Siemens, Type: CR, Title: ASN.1 syntax correction

Discussion : Needs same changes as document 333. Category is A.

Conclusion :revised to 387

N2-010387 : 29.078 , CR163, Rel-4, Siemens, Type: CR, Title: ASN.1 syntax correction

Discussion : It will be incorporated in Rel-5draft specification offline.

Conclusion : Revised to 454

N2-010454 : 29.078 , CR163, Rel-4, Siemens, Type: CR, Title: ASN.1 syntax correction

Discussion : It will be incorporated in Rel-5 offline. This document was originally approved without presentation and later revised.

Conclusion : Revised to 457

N2-010457 : 29.078 , CR163, Rel-4, Siemens, Type: CR, Title: ASN.1 syntax correction

Discussion : It will be incorporated in Rel-5 offline

Conclusion : Approved

N2-010335 : 29.078 , CR164, R99, Nokia, Type: CR, Title: Correction of the MAXIMUM-FOR-FCI-BILLING-CHARGING value

Discussion : The value of MAXIMUM-FOR-FCI-BILLING-CHARGING does not allow record 160 octets free format data, therefore the maximum length is corrected to the value 174. Same value is used for all cases (FCI-GPRS/SMS/calls) but they have different data (leg, PDPid, etc).

No calculation is available for the result value of MAXIMUM-FOR-FCI-BILLING-CHARGING. Revised document will include the monitoring. Subcategory is “essential correction”.

Conclusion :Revised to388

N2-010388 : 29.078 , CR164, R99, Nokia, Type: CR, Title: Correction of the MAXIMUM-FOR-FCI-BILLING-CHARGING value

Discussion : This document is revision of 335. Summary of change needs improvement. Ralated ASN is copied for information.

Conclusion :Revised to 441

N2-010441 : 29.078 , CR164, R99, Nokia, Type: CR, Title: Correction of the MAXIMUM-FOR-FCI-BILLING-CHARGING value

Discussion : Revision of document 388.

Conclusion : approved without presentation

N2-010336 : 29.078 , CR165, Rel-4, Nokia, Type: CR, Title: Correction of the MAXIMUM-FOR-FCI-BILLING-CHARGING value

Discussion :

Conclusion :Approved

N2-010373 : 29.002 , R99, Lucent, Type: CR, Title: Addition of SCCP information for the interface between gsmSCP and SGSN

Discussion : Postponed to Tuesday

Conclusion :withdrawn

N2-010374 : 29.002 , Rel-4, Lucent, Type: CR, Title: Addition of SCCP information for the interface between gsmSCP and SGSN

Discussion : Postponed to Tuesday

Conclusion :withdrawn

N2-010375 : 29.002 , Rel-5, Lucent, Type: CR, Title: Addition of SCCP information for the interface between gsmSCP and SGSN

Discussion : Postponed to Tuesday

Conclusion :withdrawn

6.2 CAMEL3/ATM&ATSI

No contributions received.

6.3 CAMEL3/GPRS

N2-010290 : 23.078 R99, CR 290, Rapporteur, Type: CR , Title: Correction of error implementing CR 23.078-181r2

Discussion : PDP Initiation Type set to "C" in Initial DP GPRS. Initial DP GPRS includes this IE at the initial contact with the gsmSCF for the GPRS session. PDP Initiation Type (IE) indicates whether a PDP context was established as a result of a network-initiated request or as a result of a subscriber request.

The originitor was Lucent.

Conclusion : Approved

N2-010291 : 23.078 Rel-4, CR 291, Rapporteur, Type: CR , Title: Correction of error implementing CR 23.078-181r2

Discussion : Corresponding Rel-4 CR to document 290 . CAMEL phase 3 CRs will be automatically implemented in Rel-5 by rapporteur.

Conclusion : Approved

N2-010282 : 23.078 R99, CR 286, Nokia, Type: CR , Title: GGSN address in SGSN to SCP interface

Discussion : CR specifies that GGSN address (IE) contains the *GGSN address for control plane* to which the MS is connected. If the *GPRS Event type* contains DP Change of Position Context, then the GPRS Event Specific Information IE contains GGSN address is C1.If the *GPRS Event type* contains DP PDP context establishment acknowledgement, then the GPRS Event Specific Information IE contains GGSN address as Mandatory.

GGSN adress is reported to SCP and charging ID is unique only with GGSN address.

Conclusion : Approved

N2-010283 : 23.078 Rel-4, CR 287, Nokia, Type: CR , Title: GGSN address in SGSN to SCP interface

Discussion :The change is identical as 282, but the category is A and is related to Rel-4.

Conclusion : Approved

N2-010284 : 23.078 Rel-5, CR , Nokia, Type: CR , Title: GGSN address in SGSN to SCP interface

Discussion :

Conclusion : Approved

N2-010320 : 29.078 R99, CR 158, Ericsson, Type: CR , Title: Correction to IDP-GPRS & EDP-GPRS:reporting the GGSN Address for signalling

Discussion : Similar change is in document 282 for stage2.

Conclusion : Rejected

N2-010318 : 23.078 R99, CR 294, Ericsson, Type: CR , Title: Correction to GPRS SDL:no state transition for QoS induced ACR-GPRS

Discussion : The erroneous change in the spec, from "Monitoring" to "WFI", shall be undone. The gprsSSF shall remain in state "monitoring" when it reports a Quality of Service change to the gsmSCF, by sending one or two ACR-GPRS operations (Process GPRS_SSF ,sheet 17).

Marked as essential correction. Rel-4 CR needed.

Conclusion : Revised to389

N2-010389 : 23.078 R99, CR 294, Ericsson, Type: CR , Title: Correction to GPRS SDL:no state transition for QoS induced ACR-GPRS

Conclusion: Approved without presentation

N2-010390 : 23.078 Rel-4, CR 297, Ericsson, Type: CR , Title: Correction to GPRS SDL:no state transition for QoS induced ACR-GPRS

Discussion: Tdoc390 and CR297 allocated during the meeting for Rel-4 CR.

Conclusion: Agreed without presentation

N2-010319 : 29.078 R99, CR 157, Ericsson, Type: CR , Title: Correction to ACR-GPRS procedure description

Discussion : This CR proposes correction of the ApplyChargingReportGPRS Procedure description.

GprsSSF should not go to IDLE if ACR-GPRS due to duration/volume expiry (different to call related cases). SDL goes to IDLE in this case. Content is approved, but cover page has to be updated.

Conclusion : Revised to 391

N2-010391*:* 29.078 R99, CR 157, Ericsson, Type: CR , Title: Correction to ACR-GPRS procedure description

Discussion :

Conclusion : Approved without presentation

N2-010392*:* 29.078 Rel-4, CR 177, Ericsson, Type: CR , Title: Correction to ACR-GPRS procedure description

Discussion: This is identical CR as in document 391, but related to Rel-4. CR# 177 is allocated during the meeting**.**

Conclusion: Approved without presentation

N2-010337 : 29.078 R99, CR 166, Nokia, Type: CR , Title: Correction of the gprsSSF error handling

Discussion : The gprsSSF reaction to the operation error shall be independent of the opening or continuation of the dialogue. Differences related to TC-BEGIN and TC-CONTINUE error handling are removed.

Proposal is to report errors in TC continue. Cover page updated, subgategory marked as “essential correction”, revision number is incremented.

Conclusion : Revised 393

N2-010393 : 29.078 R99, CR 166, Nokia, Type: CR , Title: Correction of the gprsSSF error handling

Conclusion: Approved without presentation

N2-010338 : 29.078, Rel-4, CR 167, Nokia , Type: CR , Title: : Correction of the gprsSSF error handling

Discussion : Identical CR as 393, but related to Rel-4.

Conclusion : Approved

N2-010339 : 29.078, R99, CR 168, Nokia , Type: CR , Title: Clarification of the TC dialogue termination

Discussion : The termination of the TC dialogue is clarified so that after class 1 operation, the related result/error have to be received before the termination of the TC dialogue.

gsm SSF has to be replaced by gprs SSF . EntityReleasedGPRS is also class 1 operation. Reason for change has to changed.

Conclusion : Revised to 394

N2-010394: 29.078, R99, CR 168, Nokia , Type: CR , Title: Clarification of the TC dialogue termination

Discussion: Revised document 339

Conclusion: Approved without presentation

N2-010340 : 29.078, Rel-4, CR 169, Nokia , Type: CR , Title: Clarification of the TC dialogue termination

Discussion :

Conclusion : Revised to 395

N2-010395 : 29.078, Rel-4, CR 169, Nokia , Type: CR , Title: Clarification of the TC dialogue termination

Discussion :

Conclusion: Approved without presentation

N2-010341 : 29.078, R99, CR 170, Nokia , Type: CR , Title: The termination of the dialogue is not clear after ActivityTestGPRS Return Result.

Discussion : The termination of the TC dialogue is clarified so that after ActivityTestGPRS Return Result, the TC dialogue shall be terminated with empty TC-END.

In the last sentence “TC dialoque” should be instead of “dialoque” only. The same change could be also in the reason for change. The Title should be changed to “Correction of the TC dialogue termination after ActiavityTestGPRS Return Result”.

Category is F, subcategory should be essential correction. Last sentence should have components instead component.

Conclusion : Revised to 396

N2-010396 : 29.078, R99, CR 170, Nokia , Type: CR , Title: Correction of the TC dialogue termination after ActivityTestGPRS result

Discussion :

Conclusion: Approved wihout presentation

N2-010342 : 29.078, Rel-4, CR 171, Nokia , Type: CR , Title: The termination of the dialogue is not clear after ActivityTestGPRS Return Result.

Discussion : Same changes should be enetered as in previous documet.

Conclusion : Revised to 397

N2-010397 : 29.078, Rel-4, CR 171, Nokia , Type: CR , Title: NEW TITLE

Discussion :

Conclusion :Approved without presentation

N2-010360 : 29.078, R99, CR 173, Alcatel , Type: CR , Title: Correction of gprsSSF TC usage

Discussion :

Conclusion : revised to 367 before the presentation

N2-010367 : 29.078, R99, CR 173, Alcatel , Type: CR , Title: Correction of gprsSSF TC usage

Discussion : 29.078 specifies that the gprsSSF shall memorise the gsmSCF address that is returned by the gsmSCF in the first TC_Continue. The gprsSSF needs this address for the possible follow-up TC dialogues comprising a common GPRS dialogue. However the TC interface itself does not provide this address to its TC user.

It is proposed to include the required information in the user information. The TC requirement is SGSN internal behaviour. SCCP level conveys the address anyway. For SCP it is optional to send the UserInformation.

Load sharing is on SCCP layer. Adress is mandatory if SCP is using load sharing.

If we change user information, is it only internal change in SGSN? Is there any change in the bit flow from SGSN to gsmSCF? Yes

ITU-T TCAP spec provides the mechanism for TCAP to memorise SSF address, and uses that address for subsequent messages, but with GPRS we would like to continue GPRS dialogue when TC dialogue has been discontinued. We need mechanism for gsm SSF to transport user addres for TCAP layer, so that TC dialogue can be reestablished within GPRS dialogue. This is the reason for recommendation to use User Information.

If GPRS CSI contains address different as the one in the address in SCCP layer, then use GPRS –CSI (according to proposal)?

Keijo: This CR is backward incopatible.If the entity doesn't support this parameter, it leads to rejection of PDP context. Solution is to introduce cutover date after which this solution can be used.

Alcatel and Ericsson wants this from day one. Siemens doubts the need of this CR for R99. T-Mobil sees this as a backward incompatible solution. Maybe a transition period could be introduced. Lucent does see this necessary to implement load sharing.

T-Mobil proposes the address in the CAP level. This solution is less elegant but backward compatible. Lucent agrees, Siemens does not agree.

Siemens preference is not to approve this CR. Reality is that good external interface has to be found. Siemens already has solved it on proprietary way.

Proposal to define a date from which this parameter will be used. CAP Operations TC continue and TC Connect are the last ones before we disconnect TC dialogue. Stephen proposal is to have this parameter on the CAP layer in mentioned messages. If we have SCP that operates in load sharing mode, new dialog can be rejected and load sharing will not work. According current specification, different implementations are possible, so Stephen would prefer a clear solution that will enable roaming agreements and other operators requirements.

Decision is to put this parameter to CAP layer. Lucent proposal is not to have cutover date. Christian will draft CRs that have CAP layer address and will draft new CR for 23.078 CR304 and for 29.078 CR183 for R99.

This CR will be sent to plenary in a separate package as a contraversal.

Conclusion: Noted

N2-010463 23.078, **CR#304**, Alcatel, Title:Indication of gsmSCF Address in Continue GPRS and Connect GPRS Ifs

Discussion : *Wording of "Consequences if not approved" have to be changed. No cutover date, parameter is put to CAP layer.*

Conclusion: Revised to 472

N2-010472 R99, 23.078, **CR#304**, Alcatel, Title:Indication of gsmSCF Address in Continue GPRS and Connect GPRS Ifs

Discussion :

Conclusion: Approved without presentation

N2-010473 : Rel-4,23.078, CR#305, Alcatel, Title:Indication of gsmSCF Address in Continue GPRS and Connect GPRS Ifs

Discussion :

Conclusion: Approved without presentation

N2-010464: R99, 29.078, CR#183, Alcatel,Title: Indication of gsmSCF Address in Continue GPRS and Connect GPRS IFs

Discussion : Section 12.7.1.3 has the text that needs to be removed. Cover page has to be changed.

Conclusion: Revised to 474

N2-010474 : R99, 29.078, CR#183, Alcatel,Title: Indication of gsmSCF Address in Continue GPRS and Connect GPRS

Discussion : This document should be in sepparate package together with previous contraversal CRs.

Conclusion: Approved without presentation

N2-010475: Rel-4, 29.078, CR#184, Alcatel,Title: Indication of gsmSCF Address in Continue GPRS and Connect GPRS

Discussion : This document should be in sepparate package together with previous contraversal CRs.

Conclusion: Approved without presentation

N2-010361 : 29.078, R99, CR#174, Alcatel , Type: CR , Title: Setting of PDP Type Organization Spare Bits

Discussion : 3G TS 29.060 defines the information element End User Address, which is reference for 3G TS 29.078. According to 3G TS 29.060 the four most significant bits of PDP Type Organization are set to 1. The sender of parameter End User Address shall set most significant bits of PDP Type Organization to 1 according to reference given.

Reason for change has to be improved. Title needs to be corrected in the increased version of the CR. News title will be "Setting of the End User spare bits". This CR is supported by consensus. In GTP protocol these bits are set to 1 and in CAP are set to 0. The implementation doesn't use them. Setting of spare bits, even if ignored in the receiving side, makes the protocol future proof and spare bits can be used in the future. Change becomes essential when spare bits are taken into some other use.

This CR was ment that last 4 bits of the PDP Type Organization octet are set to 1.

Conclusion : Revised to 442

N2-010442 :29.078, R99, CR#174**,** Alcatel, Type:CR, Title: Setting of End User Address Spare Bits

Discussion :

Conclusion: approved without presentation

N2-010443: 29.078, Rel-4, CR#181, Alcatel , Type: CR , Title: Setting of PDP Type Organization Spare Bits

Discussion :CR number for Rel-4 CR is allocated during the meeting.

Conclusion: Approved without presentation

N2-010368: R99, Ericsson, Type: Discussion Document, Title: "Reporting of data volume and duration in excess of 4Gbyte and 24 hours respectively".

Discussion document raises an issue concerning GPRS charging. The operators will have to limit PDP context to 4 GB or to 24 hours. This problem is valid also for CS, but it is more likely that PDP context which is opened continously exceeds 24 hours. Warning for R99 is necessary and implementaion for Rel-5 shall be done.

Option 5 would not be welcome for R99.

Rogier (source) preference is option 1. All the other options do require further study. Stage which it is concerned has to be agreed. Option 1 shall be applied to R99(warning).

Keijo: Until now nothig is specified if this case happens, therefore maybe some implementations are already done (specific to vendors). This problem is serious and urgent. Action has to be taken and CRs to this topic are expected for July meeting. Proposal of final solution for R99 will be presented in Tdoc 398, CR 298 (allocated during the meeting).

Conclusion:Noted

N2-010398 23.078, R99, CR 298, Ericsson,Ttype: CR Inclusion of warning note for the reporting of total duration or volume for GPRS

Discussion : Proposed solution is to include a warning note in 23.078 to inform Service Logic designers that if no tariff switch timer is used, the maximum duration or volume that may be reported is 24 hour and 4 Giga Byte respectively. The implication of this may be that a Service Logic shall restrict the charging of a Session or PDP Context to the first 24 hour and the first 4 Giga Byte and then allow Session and PDP Context continuation without charging or force terminate the Session or PDP Context after 24 hour or 4 Giga Byte, depending on which one of these occurs first.

SGSN behaviour is not mandated here. SCP has to be changed to gsmSCF. Lucent would like to have a roll-over counter in ASN.

Conclusion:Revised to 459

N2-010459 23.078, R99, CR 298, Ericsson,Ttype: CR Inclusion of warning note for the reporting of total duration or volume for GPRS

Discussion : Contraversial document and has to be put in separate package for CN plenary

Conclusion:Approved without presentation

N2-010460 23.078, Rel-4, CR 303, Ericsson,Ttype: CR Inclusion of warning note for the reporting of total duration or volume for GPRS

Discussion : SCP should be changed to gsmSCF. Controversial document.

Conclusion:Approved without presentation

N2-010449 : 23.078, R99, CR#301, Vodafone, Type: CR, Title:CAMEL Capability Handling in GPRS-CSI

Discussion : CAMEL Capability Handling should be included in the GPRS-CSI downloaded to the SGSN. It is already specified in MAP. CR proposal is inclusion of CAMEL Capability Handling in Insert Subscriber Data

Conclusion:Approved

N2-010450: 23.078, Rel-4, CR#302, Vodafone, Type: CR, Title:CAMEL Capability Handling in GPRS-CSI

Discussion :

Conclusion:Approved

6.4 MO SMS

N2-010292 : 29.078 R99,CR#155, Siemens, Type: CR , Title: Contradiction and inconsistency among descriptions on SMS

Discussion : There are contradictions and inconsistensies among descriptions on SMS related messages in 29.078, therefore Siemens recommend to delete contradicting and inconsistent description from subclause 12.1.3.1.

Siemens wants to have all the options. 12.12.1.3 allows SSF to send components in TC-END (last sentence). Second section denies it. SSF TC-END with components makes reception of errors imposible.

Conclusion : Revised to 399

N2-010399: 29.078 R99,CR#155, Siemens, Type: CR , Title: Contradiction and inconsistency among descriptions on SMS

Discussion: The last sentence in the section 12.1.2.1.3 has to be following:: In the case of the basic end gsmSSF/gprsSSF shall send TC-END with zero components.

Conclusion:Revised to 461

N2-010461: 29.078 R99,CR#155, Siemens, Type: CR , Title: Contradiction and inconsistency among descriptions on SMS

Discussion: Ericsson proposal is not to start the sentence with a condition.

Conclusion: Revised to 466.

N2-010466: 29.078 R99,CR#155, Siemens, Type: CR , Title: Contradiction and inconsistency among descriptions on SMS

Discussion:

Conclusion: Approved without presentation

N2-010293 : 29.078 Rel-4, CR#156, Siemens, Type: CR , Title: Contradiction and inconsistency among descriptions on SMS

Discussion : The reason for change is the same as in 292, but the document is related to Rel-4.

Conclusion : Revised to 462

N2-010462: 29.078 Rel-4, CR#156, Siemens, Type: CR , Title: Contradiction and inconsistency among descriptions on SMS

Discussion : The reason for change is the same as in 292, but related to Rel-4.

Conclusion : Revised to 467

N2-010467: 29.078 Rel-4, CR#156, Siemens, Type: CR , Title: Contradiction and inconsistency among descriptions on SMS

Discussion :

Conclusion : Approved without presentation

N2-010356: 23.078, R99, CR296 Title:Introduction of Reference Number for MO-SMS

Number bertween 0-255 is reference number which produces a MS when sending SMS from MS to MSC. Proposal is to introduce other reference number for MO-SMS which is produced by MSC, not by MS.

If an MO-SMS is subject to CAMEL control, then:

1. The MSC/SGSN shall generate a Reference Number.
2. The MSC/SGSN shall report this Reference Number, together with the MSC Address/SGSN Number, to the SCP.

3. The MSC/SGSN shall place this Reference Number and the MSC Address/SGSN Number in the MO-SMS CDR.

Rogier:Reference number should be marked Mandatory, and MSC is not dependent on receivingof Ref. Number from the other network, but is selfcontrol.

Cover page shall to be changed, has to have CR296 and Wi CAMEL3 but not CAMEL4. Subcategoy will be "agreed by consensus". Reference number will be mandatory . Rel-4 CR is needed. If this is approved, ouput liason statement will be sent to SA1 in document 401. If document 400 which is related to R99 is approved, then Rel-4 CR will be submitted.

Conclusion: Revised to 400

N2-010400: 23.078,R99, CR296 ,Ericsson, Title: Introduction of Reference Number for MO-SMS

Discussion:Has to be put in a separate package

Conclusion: Revised to 437

N2-010437: 23.078,R99, CR296 ,Ericsson, Title: Introduction of Reference Number for MO-SMS

Discussion: SGSN address has to be changed in SGSN number and the same pricip is applied to MSC. Improvements in wording are necessary.

Has to be put in a separate package.

Conclusion: Revised to 444

N2-010444: 23.078,R99, CR296 ,Ericsson, Title: Introduction of Reference Number for MO-SMS

Discussion:This document will be put in a separate package as contraversal one. Siemens and Nokia has some conserns about this CR and the document might be rejected on the plenary.The corresponding Rel-4 CR is allocated during the meeting (CR300)

Conclusion: Approved without presentation

N2-010445: 23.078,Rel-4, **CR300** ,Ericsson, Title: Introduction of Reference Number for MO-SMS

Discussion:Has to be put in a separate package as contraversal one. Siemens and Nokia has some conserns about this CR and the document might be rejected on the plenary.

Conclusion: Approved without presentation

N2-010401: Ericsson, Output LS , Title: Liaison Statement on introduction of SMS Reference Number for SMS

Discussion: This LS will be put in the same package as corresponding CRs, and if approved on the plenary it will be sent to SA5**.** SGSN has to be changed to SGSN number. Title will be corrected in order to cover MT SMS. Attachment needs to be updated.

Conclusion: Revised to 446

N2-010446: Ericsson, Output LS , Title: Liaison Statement on introduction of SMS Reference Number for SMS

Discussion: This LS will be put in the same package as SMS CRs, and if approved on the plenary it will be sent to SA5**.** SGSN has to be changed to SGSN number.

Conclusion: Conditionaly approved, if corresponding CRs are approved on TSGCN#12 plenary

N2-010357: 29.078, CR 175,R99, Ericsson, Title:Introduction of Reference Number for MO-SMS

Discussion: The present CR proposes the introduction of a Reference Number for CAMEL control of Mobile Originated SMS (MO-SMS). During the processing of a MO-SMS, the MSC/SGSN may produce a CDR. If that MO-SMS is subject to CAMEL control, the SCP may also produce a CDR for that MO-SMS. It shall be possible for CDR post processing systems to correlate the MO-SMS CDR produced by the MSC/SGSN with the MO-SMS CDRs produced by the SCP.

This may be achieved by means of a 'SMS Reference Number'. This Reference Number os produced in the MSC/SGSN at the time of MO-SMS processing. The MSC/SGSN reports this MO-SMS Reference Number to the SCP, together with the MSC Address/SGSN Address.
The MSC/SGSN shall place this MO-SMS Reference Number and the MSC Address/SGSN Address in the CDR for

that SMS. The MO-SMS Reference Number shall be unique within the MSC/SGSN.
WI should be CAMEL3 in cover page, and CR 175.
Conclusion: Revised to 402

N2-010402: 29.078, CR 175,R99, Ericsson, Title:Introduction of Reference Number for MO-SMS

Discussion: One spelling error and parameter names have to be changed.

Conclusion: Revised to 447

N2-010447: : 29.078, CR 175,R99, Ericsson, Title:Introduction of Reference Number for MO-SMS

Discussion: It has to be put in the same package with SMS CRs

Conclusion: Approved without presentation

N2-010448: 29.078, Rel-4, CR#182, Ericsson Title:Introduction of Reference Number for MO-SMS

Discussion: It has to be put in the same package with SMS CRs

Conclusion: Approved without presentation

6.5 CAMEL3/Call Related

N2-010308 : 23.078, R99, CR#292, Vodafone, Type: CR, Title: Handling of second SIFOC

Discussion : In CAMEL Phase 2, the MSC sends the VLR a second SIFOC if the call was subject to CAMEL invocation based on O-CSI. This allows the VLR to check the conditional outgoing call barrings against the destination routeing address provided by the gsmSCF. In CAMEL Phase 3, the handling was enhanced to deal with D-CSI and N-CSI as well. The MSC should send the VLR a second SIFOC if the call was subject to **at least one** of O-CSI, D-CSI and N-CSI. However, following through the SDLs (Procedure CAMEL_MO_Dialled_Services), the MSC will send the second SIFOC regardless of whether there was any CAMEL invocation for the call.
Sumio proposed initialisation of CAMEL_invocation before CAMEL_OCH_MSC_INIT. Corresponding CR to 23.018 shall be provided in Tdoc 405. Corresponding CR to Rel-4 will be provided in document 407 during the meeting.

Conclusion : Revised to 404

N2-010404: 23.078, R99, CR#292, Vodafone, Type: CR, Title: Handling of second SIFOC

Discussion :

Conclusion: Approved

N2-010309 : 23.078, Rel-4, CR#293, Vodafone, Type: CR, Title: Handling of second SIFOC

Discussion :

Conclusion : Revised to 406

N2-010406: 23.078, CR#293, Vodafone, Type: CR, Title: Handling of second SIFOC

Discussion :

Conclusion :Approved

N2-010405: 23.018, R99, Vodafone, Type:CR, Title: Handling of second SIFOC

Discussion :Semicolumn missing, we set the variable.Summary of change has to be improved (second SIFOC shall be sent).

Conclusion: revised to 419

N2-010419: 23.018, R99, Vodafone, Type:CR, Title: Handling of second SIFOC

Discussion :

Conclusion: Endorced without presentation

N2-010407: 23.018, Rel-4, Vodafone, Type:CR, Title: Handling of second SIFOC

Discussion: Summary of change will be imroved in CN4 document.

Conclusion: Endorsed by CN2

N2-010403: Lucent, Type: presentation, Title: VLR Interactions in 23.018 and 23.078

Discussion : This presentation provides a summary of how processes and procedures interact in 23.018 and 23.078 for the proper handling of all CAMEL interactions (for O-CSI, D-CSI and N-CSI) and call barring checks.

Conclusion: Revised to 423

N2-010423: Lucent, Type: presentation, Title: Presentation for discussion of VLR and MSC interactions for CAMEL subscription information.
Discussion :

Conclusion: Noted

N2-010321 : 29.078, R99,CR#159, Ericsson, Type: CR, Title: Clarification on the usage of SII2 parameter in CAP

Discussion : The data type definition of the parameter "ServiceInteractionIndicatorsTwo" (SII2) lacks a clear description in which CAP operations the sub-parameters of SII2 may be included.
CR proposes corrective text that clarifies when these sub-parameters may be included. This text is in alignment with the functional description of the SII2 parameter in 3G TS 23.078. CR adds corrective and clarifying text to the "ServiceInteractionIndicatorsTwo" data type definition in section 5.1.
Rel-4 CR is needed.

Conclusion : Revised to 408

N2-010408: 29.078, R99,CR#159, Ericsson, Type: CR, Title: Clarification on the usage of SII2 parameter in CAP

Discussion :

Conclusion : Approved without presentation

N2-010409 : 29.078, CR#178, Rel-4, Ericsson, Type:CR, Title: Clarification on the usage of SII2 parameter in CAP

Discussion : Rel-4 corresponding CR to previous document. CR number allocated during the meeting, CR178.

Conclusion: Approved without presentation

N2-010343 : 29.078, R99,CR#172, Alcatel, Type: CR, Title: Alignement the 29.078 on the 23.078

Discussion :The 2 specifications 3GPP TS 23.078 and 3GPP TS 29.078 are in line on certain points and that may induce some misunderstandings.

Changes to chapter 5.1 are canceled. Remove "essential" from the cover page. Summary of change has to be updated.

Conclusion : revised to 410

N2-010410 : 29.078, R99,CR#172, Alcatel, Type: CR, Title: Alignement the 29.078 on the 23.078

Discussion:

Conclustion: Approved withou presentation

N2-010411 : 29.078, Rel-4, CR179, Title: Alignement the 29.078 on the 23.078

Discussion: CR179 allocated during the meeting. Rel-5 stage 3 is not modified. New Rel-5 CR will be created.

Conclusion: **Approved without presentation**

N2-010344 : 23.078, R99,CR#295, Alcatel, Type: CR, Title: Correction on the call-diversion-Treatment-Indicator at the GMSC

Discussion : This document is intervention. CCBS case has to be checked. In reason for change and in "consequences if not approved", gsmSSF should be replaced with gsmSCF.

Conclusion : Revised to 412

N2-010412: 23.078, R99,CR#295, Alcatel, Type: CR, Title: Correction on the call-diversion-Treatment-Indicator at the GMSC

Discussion:

Conclusion: Approved without presentation

N2-010413 : 23.78, Rel-4, CR299, Alcatel, Type: CR, Title: Correction on the call-diversion-Treatment-Indicator at the GMSC

Discussion : This is corresponding Rel-4 CR to previous document, CR 299 is allocated during the meeting.

Conclusion: Approved without presentation

N2-010322 : 29.078, R99,CR#160, Ericsson, Type: CR, Title: Correction to state transition for Assisting gsmSSF

Discussion : Marked to essential correction. Rel-4 CR needed.

Conclusion : Revised to 414

N2-010414: 29.078, R99,CR#160, Ericsson, Type: CR, Title: Correction to state transition for Assisting gsmSSF

Discussion:

Conclusion: Approved without presentation

N2-010415: 29.078, Rel-4,CR#180, Ericsson, Type: CR, Title: Correction to state transition for Assisting gsmSSF

Discussion: This is Rel-4 corresponding CR to previous document . CR 180 allocated during the meeting.

Conclusion: approved without presentation

7 CAMEL for Release 4

7.1 General and miscellaneous Rel-4 issues

7.2 CAP over IP

No contributions received.

8 CAMEL4, Release 5

8.1 CAMEL 4 / Stage 1

No contributions received.

8.2 Miscellaneous CAMEL 4 issues

N2-010294 : 23.078, Rel-5, Raporteur, Type: TS-INFO, Title: Draft 23.078 V5D.6.0

Discussion : This is the draft 23.078 V5d.7.0 as the output of the CPH adhoc meeting. This is the basis for the further development in CAMEL Phase 4 Release 5. MCC will make available this document in the drafts folder under CN2.

Conclusion :. noted

N2-010310 : 23.018 Rel-5, Vodafone, Type: CR, Title: Introduction of CAMEL phase 4

Discussion : This doucument incorporates CRs that are agreed on previous meetings and will be sent to CN4.

Conclusion : Noted

N2-010311 : 23.083, Rel-5, Vodafone, Type: CR , Title: Introduction of CAMEL phase 4

Discussion : Editorial mistake in the word Phase , but it will be corrected in the next version.

Conclusion :Noted

8.2 Interactions with Optimal Routing

N2-010312 : 23.078, Rel-5, Vodafone , Type: CR, Title: Corrections for CAMEL support of OR

Discussion :. Treatment of the BOR requested IE in an entity which does not support BOR is defined.
The BOR requested IE can be included in the Connect or Continue with Argument IF for the MF and VT cases.

IE *Basic OR interrogation requested* is trigger to entity that receivs it.

Call in GSM network can be subject of late call forwarding. In that case OR stage 1 allows that forwarding leg can be treathed in the same way as originating call leg.

BOR requested should have "–" in the VT column.

Parameter that controls GMSC *Basic OR interrogation requested* is not applicable to GMSC according to last sentence on the page 2. To make it clear, in the last sentence it will be changed instead of GMSC only to "GMSC of the served subscriber". New proposed wording will be provided.

LS statement to SA1 will be submitted. MT column stays as it is. Stage 2 CR will be drafted. If LS is accepted by SA1, further improvement will be done.

Conclusion : Revised to 416, based on current stage1 requirement for OR

N2-010416: 23.078, Rel-5, Vodafone , Type: CR, Title: Corrections for CAMEL support of OR

Discussion :.Wrong document is inside.

Conclusion :Revised to 439

N2-010439: 23.078, Rel-5, Vodafone , Type: CR, Title: Corrections for CAMEL support of OR

Discussion : Summary of change does not reflect actual change, but does not cause problems.

Conclusion : Approved

N2-010417: LS OUT,Source: Vodafone, Title:Liaison Statement on Optimal Routeing of a forwarded call

Discussion :. New sentence will be introduced indicating CN2 preference.

Conclusion : Revised to 465

N2-010465: LS OUT,Source: Vodafone, Title:Liaison Statement on Optimal Routeing of a forwarded call

Discussion :*Reivised 417.*

Conclusion : Approved without presentation

8.4 Call Party Handling

N2-010326 : 23.078, Rel-5, Alcatel, Type: DISC, Title: Charging and Information concepts

Discussion : This contribution discusses the various possibilities for charging and reporting in relation to CAMEL Phase 4. Especially the impact of CPH has been considered.

Call Party Handling Charging is based on per leg and separate charging for announcement is charging on per SRF leg.

SA1 should be informed about the decission that has been made regarding this document. Final decision has to be done by SA1 (Sumio).

Alcatel proposal is overwriting of tarriff switch and e-parameters. The lower level check must exist. Alcatel proposal is one FCI per leg as well as one CIR per leg, as in CAMEL Phases 2 and 3.

Basic principles are agreed and will be presented to SA1 in Tdoc 418 which is allocated for output liason statement.

Conclusion :Noted

N2-010418 LS OUT, Alcatel, Proposed LS "Charging and Information concepts for CAMEL Call Party Handling"

Discussion: From SA1 is expected to specify charging requirements for CAMEL Call Party Handling as soon as possible (22.078). These requirements should be enhanced existing requirements. Wording emprovements are necessary.

Conclusion :Revised to 468

N2-010468 LS OUT, Alcatel, Proposed LS "Charging and Information concepts for CAMEL Call Party Handling"

Discussion: Stage 1 does not say anything about CPH charging.

Conclusion : Approved without presentation and will be sent directly to SA1 by MCC

N2-010313 : Vodafone, Type: DISC, Title: CPH Open Issues

Discussion : This document will be updated for the next meeting based on individual CRs. When decision is checked, LS statement will be sent to SA1.

Conclusion : Revised to 422

N2-010422 : Vodafone, Type: DISC, Title: CPH Open Issues

Discussion : Decisions will not be sent to SA1.

Conclusion : Revised to 469

N2-010469 : Vodafone, Type: DISC, Title: CPH Open Issues

Discussion : This document will be provided by e-mail for discussion.

Conclusion : Noted

N2-010349 : 23.018, Rel-5, Vodafone, Type: CR, Title: Handling of reconnect after leg2 disconnects (MO case)

Discussion : It has been defined that when a basic call is answered, if a CAMEL4 control relationship exists, the handling of the legs will be seperated into 2 MSC processes, specified within 23.078. However, the SDLs do not cover the scenario where leg2 disconnects and the gsmSCF requests a reconnect.

Due to the changes in N2-010314, the Release Transaction is not sent to the BSS in the CAMEL_MO_Dialled_Services and CAMEL_OCH_MSC_ALERTING procedures. Hence, OG_Call_Setup_MSC procedure is remodelled to send the release.

Conclusion :Approved

N2-010314 : 23.078, Rel-5, Vodafone, Type: CR, Title: Handling of reconnect after leg 2 disconnects

Discussion : Why page 3 sets Result:=Fail? There are various comments to this document .

Conclusion :Revised to 420

N2-010420 : 23.078, Rel-5, Vodafone, Type: CR, Title: Handling of reconnect after leg 2 disconnects

Discussion : This document can be reopened in case of problems.

Conclusion :Approved

N2-010325 : 23.078, Rel-5, Alcatel, Type: CR, Title: Correction of Call Release

Discussion : Int_Release_Call shall be sent to MSC for the remaining leg and Int_Continue shall be sent to MSC to the leg that should be released.

On page 4, signal direction seems to be wrong, MSC signals are to/from left. On page 4, decision box wording shall be improved according to Nick's comment.

Conclusion :Revised to 421

N2-010421: 23.078, Rel-5, Alcatel, Type: CR, Title: Correction of Call Release

Discussion :

Conclusion :Approved without presentation

N2-010315 : 23.078, Rel-5, Vodafone, Type: CR, Title: Correction to procedure CAMEL_EXPORT_LEG_MSC

Discussion : Christian proposes that event (alerting/release) would not be considered during "move", but is saved instead. According to Vesa (Nokia), Cancel is not needed during move. Returning the situation would be very complicated.

Cancel is removed.

Conclusion :Revised to 431

N2-010431 : 23.078, Rel-5, Vodafone, Type: CR, Title: Correction to procedure CAMEL_EXPORT_LEG_MSC

Discussion :

Conclusion :Approved without presentation

N2-010316 : 23.078, Rel-5, Vodafone, Type: CR, Title: Addition of NC & NP columns to IF tables

Discussion : NC and NP columns have been added where appropriate. IFs that are independent of the call-type have had the MO/MF/MT/VT columns replaced by a Status column.

For creation NP column: triggering can happen for D-CSI and N-CSI. For NC column: triggering shall be based on N-CSI. New proposal for this document will be done and discussed.

Sumio: Document shall be accepted except Initial DP that should be marked with *. NP column should have "-" for the Backward Service Interaction Indicator in Connect message. Information Elements Audible Indicator and Play Burstlist in Apply charging message are applicable also for NP.

Conclusion :Revised to 424

N2-010424: 23.078, Rel-5, Vodafone, Type: CR, Title: Addition of NC & NP columns to IF tables

Discussion :

Conclusion: Approved without presentation

N2-010317 : 29.078, Rel-5, Vodafone, Type: CR, Title: Introduction of CPH operations (ASN.1)

Discussion : It will be incorporated in draft specification.

Conclusion :Approved

N2-010324 : 23.078, Rel-5, Alcatel, Type: CR, Title: Correction of gsmSCF initiated new calls:CAMEL_ICA_MSC process

Discussion : Last page: Abort is replaced with Int_exception .

Conclusion :Revised to 432

N2-010432 : 23.078, Rel-5, Alcatel, Type: CR, Title: Correction of gsmSCF initiated new calls:CAMEL_ICA_MSC process

Discussion :

Conclusion : Approved

8.5 DTMF Mid call procedure for MO and MT calls

No contributions received.

8.6 Provisioning of IP-based multimedia services / CAMEL applicability to media strems like VoIP

No contributions received

8.7 CAMEL control over MT SMS

N2-010345 : 23.078, Rel-5, Ericsson, Type: CR, Title: Introduction of Reference Number for MT-SMS

Discussion : The document proposes the introduction of Reference number for SMS. It is mandatory parameter, because MSC is no dependend on receiving it from other entity. Call reference number and SMS reference number are indipendent, and MSC alocates them indipendendly. There is no relation between SMS MT reference number and SMS MO reference number.

GGSN address allocateds charging ID, and if we combine two of them we have unique pair in the network.

Rogier does not support a task box for reference allocation. GPRS: does it need a reference? There is GGSN address and Charging ID.

Conclusion : Revised to 433

N2-010433 : 23.078, Rel-5, Ericsson, Type: CR, Title: Introduction of Reference Number for MT-SMS

Discussion : Task box will be introduced and should be documented that there is no reference beween Call reference number and SMS reference number.

Conclusion: conditionally approved, if R99 CRs (Introduction of Reference Number for MO-SM)S is approved on the Plenary

N2-010346: 29.078, Rel-5, Ericsson, Type: CR, Title: Introduction of Reference Number for MT-SMS

Discussion : Call reference number is used as data type definition and there is no corelation between it and MO-SMS reference number. There is no relation between contacinated SMSs, so reference numbers are provided to single SMS

process. If there is set of SMSs, every SMS has process within MSC and Ref number should be produced for each single SMS as well as 1 call data record per SMS. According 32.015 specification SGSN should generate CDR for each single SMS. Corrections to ASN1 shall be introduced.

Conclusion :Revisedto 434

N2-010434: 29.078, Rel-5, Ericsson, Type: CR, Title: Introduction of Reference Number for MT-SMS

Discussion :

Conclusion: Conditionaly approved

N2-010347 : 23.078, Rel-5, Ericsson, Type: CR, Title: Correction to MT-SMS Trigger Criteria

Discussion : The present CR proposes improvements to the text and SDL of MT-SMS to clarify the handling of MT-SMS trigger criteria. Criteria should be replaced by criterion.

Conclusion :revised to 435

N2-010435 : 23.078, Rel-5, Ericsson, Type: CR, Title: Correction to MT-SMS Trigger Criteria

Discussion :

Conclusion: Approved without presentation

N2-010348 : 29.002, Rel-5, Ericsson, Type: CR, Title: Correction to MT-SMS Trigger Criteria

Discussion : The structure is the same as originally by Siemens. ASN1 should be corrected.

Conclusion :revised to 436

N2-010436 : 29.002, Rel-5, Ericsson, Type: CR, Title: Correction to MT-SMS Trigger Criteria

Discussion :

Conclusion :Approved without presentation

N2-010358 : 23.060, Rel-5, Ericsson, Type: CR, Title: Introduction of MT-SMS interworking

Discussion : CR proposes the required changes to 23.060 to specify the interworking in the SGSN for CAMEL control of MT-SMS. Once the MS has accepted SM it will report it to SGSN. Entered boxes C1 and C2 are CAMEL procedures defined in 23.078.

This CR is aplicable to Rel-5 only.

Conclusion :Revised to 438

N2-010438 : 23.060, Rel-5, Ericsson, Type: CR, Title: Introduction of MT-SMS interworking

Discussion : CR will be sent to SA2

Conclusion: Endorced

N2-010359 :Rel-5, LS from CN2 to SA5: Inclusion of CAMEL elements in MT-SMS CDR

Discussion : TSG CN WG2 asks TSG_SA WG5 group to include for CAMEL purposes the following information elements in the MT-SMS record for the terminating MSC and in the MT-SMS record for the SGSN:

gsmSCF Address,
service Key,
default SMS Handling,
free Format Data,
Calling Party Number,
SMS Reference Number,
MSC Address (for MT-SMS record for the terminating MSC only),
SGSN Address (for MT-SMS record for the SGSN).

Calling Party Number ise related to CAMEL. MT SMS Reference number, MSC Address and SGSN Address are removed from this liason statement.

Conclusion :Revised to 440

N2-010440 :Rel-5, LS from CN2 to SA5: Inclusion of CAMEL elements in MT-SMS CDR

Conclusion :Approved without presentation

8.8 Inclusion of flexibel tone injection

No contributions received.

8.9 Charging notification to CSE

N2-010350 : 23.078, Rel-5, C-DOT, Type: disc, Title: Definition of eventTypeCharging parameter in RNC & ENC operations

Discussion :

Conclusion :Revised to 425

N2-010425 : 23.078, Rel-5, C-DOT, Type: disc, Title: Definition of eventTypeCharging parameter in RNC & ENC operations

Discussion : Alcatel proposes to use AC/ACR to report also charging units. AC/ACR can be used only if the tariff is known by the SCP.

ENC/RNC: SCP originated charging. How is it reported? MSC should report always its own charging parameters, not the ones given by SCP.

Vesa: What is the access network charge? This is the transit network charge

If dialled services give charging, is it reported for the O-CSI? Only one service should be allowed to modify these charging parameters.AC and RNC are mutually exclussive. SCP must know whether charging is configured. This would be part of a roaming agreement beween operators.

Rejeev: If we have AC and ACR on O-CSI, we can not have the same information on D-CSI.

C-DOT believes that this should be an optional CAMEL4 feature. MSC should indicate to the SCP whether the optional feature is supported. When SCP receives the information about charging , SCP also receives the information till when this charges will be applicable.

T-Mobil: Tarrif is not known by the MSC. There would be no possibility to apply HPLMN tarrif. SCP can deduce the credit based on VPLMN tariff or independently. Currently credit is chedked at IDP.

Conclusion : Noted

N2-010351 : 23.078, Rel-5, C-DOT, Type: CR, Title: Handling of RNC & ENC operations in gsmSSF

Discussion :

Conclusion :Revised to 426

N2-010426 : 23.078, Rel-5, C-DOT, Type: CR, Title: Handling of RNC & ENC operations in gsmSSF

Discussion : There are separate states for dialled services and those are not listed in this CR. If there is announcement then charging notification is not running. In section 4.5.7.x “end of connection” should be “end of call”. Procedure Handle RNC should be covered in SDL (23.078). NP and NC columns are not described yet

e3 takes care of conversion from local unit to total unit. C-DOT says that Price per unit (PPU) should be part of roaming agreement. SCP does not know the MSCs PPU. MSC must already be able to calculate PPU. AoC has problem but the feature is not used by operators.

SCP is responsible to calculate price out of the evalues based on call duration. SSP has to deliver enough information to SCP in order to make calculation. In the MSC, e3 has to be configured for each HPLMN. If the roaming subscriber makes the call e3 values are retrieved from the MSC. For home subscribers e1 is used for price calculation.

Stephen: e-parameter ranges are not sufficient to cover all the services used nowdays. We should take into consideration roaming agreements and GSM Association opinion. The concept may not fit to current charging concepts.

If we support charging units concept, unit has to be enhanced . We should indicate a real charge from the information received from MSC. If we want MSC to deliver valid values, then evalues are not enough for it. Price per unit should be introduced. More applicable information should be available.

Rajeev: These parameters are taken as an optional feature.

CN2 will proceede on this feature until there is a requirement.

Conclusion :Revised to 455

N2-010455: 23.078, Rel-5, C-DOT, Type: CR, Title: Handling of RNC & ENC operations in gsmSSF

Conclusion :Revised to 470

N2-010470: 23.078, Rel-5, C-DOT, Type: CR, Title: Handling of RNC & ENC operations in gsmSSF

Discussion :

Conclusion :Approved without presentation

N2-010352 : 29.078, Rel-5, C-DOT, Type: CR, Title: Introduction of RNC & ENC operations , procedures & ASN definitions

Discussion :

Conclusion :Revised to 427

N2-010427 : 29.078, Rel-5, C-DOT, Type: CR, Title: Introduction of RNC & ENC operations , procedures & ASN definitions

Discussion : SMS and GPRS specific part shall not be modified.Comments are considered, revised document will be provided for the next meeting

Conclusion :Noted

8.10 Enhancements of dialled services

N2-010354 : 23.078, Rel-5, C-DOT, Type: CR, Title: Creation of Control/Monitoring relationship with CSE at DP3

Discussion :

Conclusion :Revised to 429

N2-010429 : 23.078, Rel-5, C-DOT, Type: CR, Title: Creation of Control/Monitoring relationship with CSE at DP3

Discussion : The term CSE has to be replaced by SCP. The new IDP parameter could be also in the MF case. DP3 SSF special state is used if dialogue already exists.

This was late document . Revised CR will be prepared for the next N2 meeting.

Conclusion : Noted

N2-010353 : 23.018, Rel-5, C-DOT, Type: CR, Title: Handling of a variable to indicate an existing relationship with CSE

Discussion :

Conclusion :Revised to 428

N2-010428 : 23.018, Rel-5, C-DOT, Type: CR, Title: Handling of a variable to indicate an existing relationship with CSE

Discussion : This was late document . Revised CR will be prepared for the next N2 meeting.

Discussion :

Conclusion : Noted

N2-010355 : 29.078, Rel-5, C-DOT, Type: CR, Title: InitialDP modified to indicate existance of relationship with CSE

Discussion :

Conclusion :Revised to 430

N2-010430 : 29.078, Rel-5, C-DOT, Type: CR, Title: InitialDP modified to indicate existance of relationship with CSE

Discussion : This was late document . Revised CR will be prepared for the next N2 meeting.

Conclusion : Noted

N2-010376: Rel-5, Vodafone, Type: Disc, Title: Implementation of enhancements to subscriber dialled services

Discussion : The invoke flag message should have the flag already, not in the DP related message. The flag needs to be updated whenever the dialoque is terminated.

This was late document . Revised CR will be prepared for the next N2 meeting.

Conclusion :Noted

N2-010451: 23.018, Rel-5, Vodafone, Type:CR, Title:Enchancements to Subscribed Dialled Services

Discussion : The introduction of Enhancements to Subscribed Dialled Services requires the initialisation of a variable in 23.018 processes. Change proposes initialisation of CAP_Dialogue (:= False) in OG_Call_Setup_MSC and MT_CF_MSC.

Late document, revised version will be presented on the next meeting.

Conclusion :Noted

N2-010452: 23.078, Rel-5, Vodafone, Type: CR, Title: Enhancements to Subscribed Dialled Services

Discussion : Late document, revised version will be presented on the next meeting.

Conclusion :Noted

8.11 Provision of location information of called subscriber

N2-010303 : 23.078, Rel-5, Siemens, Type: CR, Title : Providing the location information during ongoing call

Discussion : Every time MS change the location, this has to be reported to SCP.

The following changes are proposed in this CR;

- DP Change_Of_Position added to O/T_BCSM in the alerting phase the active phases.
- Implicit disarming of the DP is only done when the call is released.
- New procedure, CAMEL_Change_Of_Position, added.
- Process gsmSSF; RRB and ERB for the DP added.
- Information flow; RRB and ERB for the DP added.

These new DPs apply only to MO and MT calls. When HO notification is done towards SCP, evalues should be descarded and tarriff switch should be stopped.

Alcatel thinks that in the future we will have to much DPs and would like to have midcall DP, Siemens and Nokia would like separate DPs. Disarming tables 4.4 and 4.5 have to be revised.

Comments to to this CR are considered and new CR will be provided for the next meeting.

Conclusion :Noted

N2-010304 : 29.078, Rel-5, Siemens, Type: CR, Title: Providing the location information during ongoing call

Discussion :

Conclusion :Postponed

8.12 Notification of GPRS mobility management to CSE

N2-010297 : 23.008, Rel-5, Siemens, Type: CR, Title: Mobility management for GPRS subscriber

Discussion :

Conclusion :Postponed

N2-010298 : 23.016, Rel-5, Siemens, Type: CR, Title: Mobility management for GPRS subscriber

Discussion :

Conclusion :Postponed

N2-010299 : 23.060, Rel-5, Siemens, Type: CR, Title: Mobility management for GPRS subscriber

Discussion :

Conclusion :Postponed

N2-010300 : 23.078, Rel-5, Siemens, Type: CR, Title : Mobility management for GPRS subscriber (chapter 9)

Discussion : Mobility management triggers should contain also network initiated GPRS detach, not only MS initiated GPRS detach. Procedure names are not maching with a names in other CR where the procedure is called. Procedure names have to be checked. Section 9.3 has to be revised, it may not cover all PS related cases.

Last section: Insert Subscriber Data contains CAMEL specific IE for Mobility Management.M-CSI is sent to VLR only and MG-CSI is sent to SGSN only and they are placed in the same table. Ericsson recommends separate sections.

Comments are considered and will be part of the contribution for the next meeting.

Conclusion :Noted

N2-010301 : 23.078, Rel-5, Siemens, Type: CR, Title: Mobility management for GPRS subscriber (chapter 10)

Discussion :

Conclusion :Postponed

N2-010302 : 29.002, Rel-5, Siemens, Type: CR, Title: Mobility management for GPRS subscriber

Discussion :

Conclusion :Postponed

8.13 CAMEL4/ ODB in HLR-SCP interface

N2-010305 : 23.078, Rel-5, Siemens, Type: CR, Title: Inclusion of ODB data in ATM

Discussion :

Conclusion :Postponed

N2-010306 : 29.002, Rel-5, Siemens, Type: CR, Title: Inclusion of ODB data in ATM

Discussion :

Conclusion :Postponed

9 Maintenance of earlier CAMEL phases

9.1 CAMEL phase 1

No contributions received.

9.2 CAMEL phase 2

N2-010285 : 03.78, R97, CR#A161, Nokia, Type: CR, Title: Mapping of Call Forwarding parameters form CAP-Connect to ISUP-IAM and CAP-InitialDP

Discussion: The Redirecting Number and Redirection Information parameters are mandatory parameters in a CF O-BCSM (MF column), but they are not available in all cases. If the SCP sends a CAP-Connect operation to a T-BCSM without these parameters, and these parameters were not received from ISUP, then the MSC/SSP shall not send these parameters. It is already stated that non-present Connect parameters are not modified by the MSC.

CAMEL2 shall have a word of warning. CAMEL3 onwards the parameters shall be conditional. The version shall be 6.8.0. The word parameters shall be singular. Correction to cover page needed.
Conclusion :Revised to 379

N2-010379: 03.78, R97, CR#A161, Nokia, Type: CR, Title: Mapping of Call Forwarding parameters form CAP-Connect to ISUP-IAM and CAP-InitialDP

Discussionn:
Conclusion :Approved without presentation

N2-010286 : 03.78, R98, CR#A162, Nokia, Type: CR, Title: Mapping of Call Forwarding parameters form CAP-Connect to ISUP-IAM and CAP-InitialDP

Discussion : Same changes as in R97 CR are needed. Category is marked as A.

Conclusion :Revised to 380

N2-010380 : 03.78, R98, CR#A162, Nokia, Type: CR, Title: Mapping of Call Forwarding parameters form CAP-Connect to ISUP-IAM and CAP-InitialDP

Discussion :

Conclusion :Approved without presentation

N2-010287: 23.078, R99, CR#288, Nokia, Type: CR, Title: Mapping of Call Forwarding parameters form CAP-Connect to ISUP-IAM and CAP-InitialDP

Discussion : The Redirecting Number and Redirection Information parameters are mandatory parameters in a CF O-BCSM (MF column). However, they are not available in all cases. If the SCP sends a CAP-Connect operation to a T-BCSM without these parameters, and these parameters were not received from ISUP, then the MSC/SSP shall not send these parameters. It is already stated that non-present Connect parameters are not modified by the MSC.
Redirecting Party ID and Redirection Information are set to Conditional.

WI should be CAMEL 3 and category A.

Conclusion :revised to 381

N2-010381: 23.078, R99, CR#288, Nokia, Type: CR, Title: Mapping of Call Forwarding parameters form CAP-Connect to ISUP-IAM and CAP-InitialDP .

Discussion :

Conclusion :Approved without presentation

N2-010288 : 23.078, Rel-4, CR#289, Nokia, Type: CR, Title: Mapping of Call Forwarding parameters form CAP-Connect to ISUP-IAM and CAP-InitialDP

Discussion : Category is A and WI CAMEL3.

Conclusion :Revised to 382.

N2-010382: 23.078, Rel-4, CR#289, Nokia, Type: CR, Title: Mapping of Call Forwarding parameters form CAP-Connect to ISUP-IAM and CAP-InitialDP

Discussion :

Conclusion :Approved without presentation

N2-010289 : 23.078, Rel-5, Nokia, Type: CR, Title: Mapping of Call Forwarding parameters form CAP-Connect to ISUP-IAM and CAP-InitialDP

Discussion : Sumio prefers "C" without explanation, WI is CAMEL3.

Conclusion :Revised to 383

N2-010383 : 23.078, Rel-5, Nokia, Type: CR, Title: Mapping of Call Forwarding parameters form CAP-Connect to ISUP-IAM and CAP-InitialDP

Discussion :

Conclusion :Approved without presentation

10 Review of dates and hosts for future meetings

N2-010281 : MCC, Title: CN2 year 2001 meeting calendar

Discussion : During next meeting will be joint meeting on Wednesday. For the next meeting the deadline for request sheets will be 4th of July,Wednesday midday central european time. Tdocs must be sent out during the Wednesday. CN2#21 will be in Mexico, Cancun. Meeting locations should be covered by GSM network

Conclusion :Noted

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

Annex A Participants list

Member of 3GPP (ETSI)					
Ms. Véronique Belfort	ALCATEL S.A.	3GPPMEMBER (ETSI)	FR	+33 1 30 77 86 11	veronique.belfort@alcatel.fr
Miss Archna Gandhi	C-DOT	3GPPMEMBER (ETSI)	IN	+91-11-4678974	archna@cdotd.ernet.in
Mr. Michel Grech	Lucent Technologies N. S. UK	3GPPMEMBER (ETSI)	GB	+44 1793 736 110	grech@lucent.com
Miss Shivali Gupta	C-DOT	3GPPMEMBER (ETSI)	IN	+91-11-4678974	shivali@cdotd.ernet.in
Mr. Steffen Habermann	Deutsche Telekom MobilNet	3GPPMEMBER (ETSI)	DE	+49 228 936 3324	steffen.habermann@t-mobil.de
Mr. Christian Homann	ALCATEL S.A.	3GPPMEMBER (ETSI)	DE	+49 711 821 45632	c.homann@alcatel.de
Ms. Jane D Humphrey	MARCONI COMMUNICATIONS	3GPPMEMBER (ETSI)	GB	+44 1202 853757	jane.humphrey@marconi.com
Mr. Andrew McClurg	Lucent Technologies	3GPPMEMBER (ETSI)	NL	+1 630 979 7357	amcclurg@lucent.com
Mr. Sumio Miyagawa	SIEMENS AG	3GPPMEMBER (ETSI)	AT	+43 51707 21381	sumio.miyagawa@siemens.at
Mr. Keijo Palviainen	NOKIA Corporation	3GPPMEMBER (ETSI)	FI	+358 9 511 69669	keijo.palviainen@nokia.com
Mr. Nick Russell	VODAFONE Group Plc	3GPPMEMBER (ETSI)	GB	+44 1635 682 699	nick.russell@vf.vodafone.co.uk
Mr. Vesa Tiainen	NOKIA Corporation	3GPPMEMBER (ETSI)	FI	+358 95116 9712	vesa.tiainen@nokia.com
Mr. Rogier Noldus	ERICSSON L.M.	3GPPMEMBER (ETSI)	NL	+31 161 249 400	rogier.noldus@eln.ericsson.se
Mr. Rajeev Singh	C-DOT	3GPPMEMBER (ETSI)	IN	+91 11 4678974	rajeev@cdotd.ernet.in
Member of 3GPP (TTC)					
Mr. Yutaka Harada	NEC Corporation	3GPPMEMBER (TTC)	JP	+81 3 3798 5837	yharada@mt.ncos.nec.co.jp
Organisation partner representative (ETSI)					
Mrs. Andrijana Jurisic	Mobile Competence Center		HR	+385 1 4691 430	a.jurisic@vipnet.hr

Annex B Output Documents

Approved Change Requests for CAMEL Phase 2

TDoc #	WI	Rel	Cat	Title	Type	Spec	CR #	Rev	Version	Conclusion
N2-010379	CAMEL2	R97	F	Mapping of Call Forwarding parameters from CAP-Connect to ISUP-IAM and CAP-InitialDP	CR	03.78	A161	1	6.8.0	approved
N2-010380	CAMEL2	R98	A	Mapping of Call Forwarding parameters from CAP-Connect to ISUP-IAM and CAP-InitialDP	CR	03.78	A162	1	7.5.0	approved

Agreed Change Requests for CAMEL Phase 3

TDoc #	WI	Rel	Cat	Title	Type	Spec	CR #	Rev	Version	Conclusion	Source
N2-010284	CAMEL3	Rel-5	A	GGSN address in SGSN to SCP interface	CR	23.078			5d.7.0	approved	Nokia
N2-010383	CAMEL3	Rel-5	A	Mapping of Call Forwarding parameters from CAP-Connect to ISUP-IAM and CAP-InitialDP	CR	23.078			5d.7.0	approved	Nokia
N2-010282	CAMEL3	R99	F	GGSN address in SGSN to SCP interface	CR	23.078	286	0	3.8.0	approved	Nokia
N2-010283	CAMEL3	Rel-4	A	GGSN address in SGSN to SCP interface	CR	23.078	287	0	4.0.0	approved	Nokia
N2-010381	CAMEL3	R99	F	Mapping of Call Forwarding parameters from CAP-Connect to ISUP-IAM and CAP-InitialDP	CR	23.078	288	1	3.8.0	approved	Nokia
N2-010382	CAMEL3	Rel-4	A	Mapping of Call Forwarding parameters from CAP-Connect to ISUP-IAM and CAP-InitialDP	CR	23.078	289	1	4.0.0	approved	Nokia
N2-010290	CAMEL3	R99	F	Correction of error implementing CR 23.078-181r2	CR	23.078	290		3.8.0	approved	Rapporteur
N2-010291	CAMEL3	Rel-4	A	Correction of error implementing CR 23.078-181r2	CR	23.078	291		4.0.0	approved	Rapporteur
N2-010404	CAMEL3	R99	F	Handling of second SIFOC	CR	23.078	292	1	3.8.0	approved	Vodafone
N2-010406	CAMEL3	Rel-4	A	Handling of second SIFOC	CR	23.078	293	1	4.0.0	approved	Vodafone
N2-010389	CAMEL3	R99	F	Correction to GPRS SDL: no state transition for QoS-induced ACR-	CR	23.078	294	1	3.8.0	approved	Ericsson

				GPRS							
N2-010412	CAMEL3	R99	F	Correction on the call-Diversion-Treatment-Indicator at the GMSC	CR	23.078	295	1	3.8.0	approved	Alcatel
N2-010444	CAMEL3	R99	F	Introduction of Reference Number for MO-SMS	CR	23.078	296	3	3.8.0	approved	Ericsson
N2-010390	CAMEL3	Rel-4	A	Correction to GPRS SDL: no state transition for QoS-induced ACR-GPRS	CR	23.078	297		4.0.0	approved	Ericsson
N2-010459	CAMEL3	R99	F	Inclusion of warning note for the reporting of total duration or volume for GPRS	CR	23.078	298	1	3.8.0	approved	Ericsson
N2-010413	CAMEL3	Rel-4	A	Correction on the call-Diversion-Treatment-Indicator at the GMSC	CR	23.078	299		4.0.0	approved	Alcatel
N2-010445	CAMEL3	Rel-4	A	Introduction of Reference Number for MO-SMS	CR	23.078	300		4.0.0	approved	Ericsson
N2-010449	CAMEL3	R99	F	CAMEL Capability Handling in GPRS-CSI	CR	23.078	301		3.8.0	approved	Vodafone
N2-010450	CAMEL3	Rel-4	A	CAMEL Capability Handling in GPRS-CSI	CR	23.078	302		4.0.0	approved	Vodafone
N2-010460	CAMEL3	Rel-4	A	Inclusion of warning note for the reporting of total duration or volume for GPRS	CR	23.078	303		4.0.0	approved	Ericsson
N2-010472	CAMEL3	R99	F	Indication of gsmSCF Address in Continue GPRS and Connect GPRS IFs	CR	23.078	304	1	3.8.0	approved	Alcatel, T-Mobil, Ericsson
N2-010473	CAMEL3	Rel-4	A	Indication of gsmSCF Address in Continue GPRS and Connect GPRS Ifs	CR	23.078	305		4.0.0	approved	Alcatel, T-Mobil, Ericsson
N2-010466	CAMEL3	R99	F	Contradiction and inconsistency among descriptions on SMS	CR	29.078	155	3	3.7.0	approved	Siemens AG
N2-010467	CAMEL3	Rel-4	A	Contradiction and inconsistency among descriptions on SMS	CR	29.078	156	2	4.0.0	approved	Siemens AG
N2-010391	CAMEL3	R99	F	Correction to ACR-GPRS procedure description	CR	29.078	157	1	3.7.0	approved	Ericsson
N2-010408	CAMEL3	R99	F	Correction on the usage of SII2 parameter in CAP	CR	29.078	159	1	3.7.0	approved	Ericsson
N2-010414	CAMEL3	R99	F	Correction to state transition for Assisting gsmSSF	CR	29.078	160	1	3.7.0	approved	Ericsson
N2-010384	CAMEL3	R99	F	Correction to IMPORT statements	CR	29.078	161	1	3.7.0	approved	Ericsson

N2-010456	CAMEL3	R99	F	ASN.1 syntax correction	CR	29.078	162	3	3.7.0	approved	Siemens AG
N2-010457	CAMEL3	Rel-4	A	ASN.1 syntax correction	CR	29.078	163	3	4.0.0	approved	Siemens AG
N2-010441	CAMEL3	R99	F	Correction of the MAXIMUM-FOR-FCI-BILLING-CHARGING value	CR	29.078	164	2	3.7.0	approved	Nokia
N2-010336	CAMEL3	Rel-4	A	Correction of the MAXIMUM-FOR-FCI-BILLING-CHARGING value	CR	29.078	165		4.0.0	approved	Nokia
N2-010393	CAMEL3	R99	F	Correction of the gprsSSF error handling	CR	29.078	166	1	3.7.0	approved	Nokia
N2-010338	CAMEL3	Rel-4	A	Correction of the gprsSSF error handling	CR	29.078	167		4.0.0	approved	Nokia
N2-010394	CAMEL3	R99	F	Clarification of the TC dialogue termination	CR	29.078	168	1	3.7.0	approved	Nokia
N2-010395	CAMEL3	Rel-4	A	Clarification of the TC dialogue termination	CR	29.078	169	1	4.0.0	approved	Nokia
N2-010396	CAMEL3	R99	F	The termination of the dialogue is not clear after ActivityTestGPRS Return Result.	CR	29.078	170	1	3.7.0	approved	Nokia
N2-010397	CAMEL3	Rel-4	A	The termination of the dialogue is not clear after ActivityTestGPRS Return Result.	CR	29.078	171	1	4.0.0	approved	Nokia
N2-010410	CAMEL3	R99	F	(rev 343) Alignement the 29.078 on the 23.078	CR	29.078	172	1	3.7.0	approved	Alcatel
N2-010442	CAMEL3	R99	F	Setting of End User Address Spare Bits	CR	29.078	174	1	3.7.0	approved	Alcatel
N2-010447	CAMEL3	R99	F	Introduction of Reference Number for MO-SMS	CR	29.078	175	2	3.7.0	approved	Ericsson
N2-010385	CAMEL3	Rel-4	A	Correction to IMPORT statements	CR	29.078	176		4.0.0	approved	Ericsson
N2-010392	CAMEL3	Rel-4	A	Correction to ACR-GPRS procedure description	CR	29.078	177		4.0.0	approved	Ericsson
N2-010409	CAMEL3	Rel-4	A	Correction on the usage of SII2 parameter in CAP	CR	29.078	178		4.0.0	approved	Ericsson
N2-010411	CAMEL3	Rel-4	A	Alignement the 29.078 on the 23.078	CR	29.078	179		4.0.0	approved	Alcatel
N2-010415	CAMEL3	Rel-4	A	Correction to state transition for Assisting gsmSSF	CR	29.078	180		4.0.0	approved	Ericsson
N2-010443	CAMEL3	Rel-4	A	Setting of End User Address Spare Bits	CR	29.078	181		4.0.0	approved	Alcatel
N2-010448	CAMEL3	Rel-4	A	Introduction of Reference Number for MO-SMS	CR	29.078	182		4.0.0	approved	Ericsson

N2-010474	CAMEL3	R99	F	Indication of gsmSCF Address in Continue GPRS and Connect GPRS Ifs	CR	29.078	183	1	3.7.0	approved	Alcatel, T-Mobil
N2-010475	CAMEL3	Rel-4	A	Indication of gsmSCF Address in Continue GPRS and Connect GPRS Ifs	CR	29.078	184		4.0.0	approved	Alcatel, T-Mobil, Ericsson

Documents for e-mail discussion

N2-010469	Discussion document	CPH: Open Issues	Vodafone	CAMEL4	noted (e-mail discussion)

Documents Endorsed by N2

TDoc #	WI	Rel	Cat	Title	Type	Spec	C	Rev	Versio	Conclusion
N2-010377	CAMEL3	R99		Supported CAMEL Phases in VLR is temporary	CR	23.008				endorced
N2-010378	CAMEL3	Rel-4		Supported CAMEL Phases in VLR is temporary	CR	23.008				endorced
N2-010407	CAMEL3	Rel-4	F	Initialisation of variable to monitor activations of CSIs	CR	23.018			3.7.0	endorced
N2-010419	CAMEL3	R99	F	Initialisation of variable to monitor activations of CSIs	CR	23.018			3.7.0	endorced
N2-010438	CAMEL4	Rel-5	B	Introduction of MT-SMS interworking	CR	23.060		1		endorced

Approved Output Liaison Statements

TDoc #	To	Title	Type	Conclusion	Source
N2-010440	TSG SA WG5	LS from CN2 to SA5: Inclusion of CAMEL elements in MT-SMS CDR	LS OUT	approved	Ericsson
N2-010446	TSG SA WG5	Liaison Statement on introduction of SMS Reference Number for SMS	LS OUT	Conditionally approved	Ericsson
N2-010465	TSG SA WG1	Output LS to SA1: Corrections for CAMEL support of OR	LS OUT	approved	Vodafone
N2-010468	TSG SA WG1, TSG SA WG1 CAMEL AdHoc	LS “Charging and Information concepts for CAMEL Call Party Handling”	LS OUT	approved	Alcatel

Other documents approved by CN2

TDoc #	Type	Title	Source	WI	Rel	Conclusion
N2-010371	WID	CAMEL4 scope in Rel-5 for TSG-CN (WID)	CN2 chairman	CAMEL4	Rel-5	approved
N2-010471	Work plan	Progress of CAMEL work, changes to Work plan status	CN2 chairman	CAMEL4	Rel-5	approved

Agreed and endorced Change Requests for CAMEL Phase 4

TDoc #	WI	Rel	Cat	Title	Type	Spec	CR #	Rev	Version	Conclusion	Source
N2-010349	CAMEL4	5	F	Handling of reconnect after leg2 disconnects	CR	23.018		0	4.2.0	approved	Vodafone Group Plc
N2-010470	CAMEL4	Rel-5	B	Handling of RNC & ENC operations in gsmSSF	CR	23.078		1	5d.7.0	approved	C-DOT
N2-010439	CAMEL4	Rel-5	C	Corrections for CAMEL support of OR	CR	23.078		3	5D.7.0	approved	Vodafone Group Plc
N2-010435	CAMEL4	Rel-5	F	Correction to MT-SMS Trigger Criteria	CR	23.078		1	5D.7.0	approved	Ericsson
N2-010433	CAMEL4	Rel-5	B	Introduction of Reference Number for MT-SMS	CR	23.078		1	5D.7.0	conditonally approved	Ericsson

N2-010432	CAMEL4	Rel-5	F	Correction of gsmSCF initiated new calls: CAMEL_ICA_MSC process	CR	23.078		9	5D.7.0	approved	Alcatel
N2-010431	CAMEL4	Rel-5	F	Corrections to procedure CAMEL_EXPORT_LEG_MSC	CR	23.078		1	5D.7.0	approved	Vodafone Group Plc
N2-010424	CAMEL4	Rel-5	C	Addition of NC & NP columns to IF tables	CR	23.078		1	5D.7.0	approved	Vodafone Group Plc
N2-010421	CAMEL4	Rel-5	F	Correction of Call Release	CR	23.078		1	5D.7.0	approved	Alcatel
N2-010420	CAMEL4	Rel-5	F	Handling of reconnect after leg 2 disconnects	CR	23.078		1	5D.7.0	approved	Vodafone Group Plc
N2-010436	CAMEL4	Rel-5	F	Correction to MT-SMS Trigger Criteria	CR	29.002		1	3.8.0	approved	Ericsson
N2-010434	CAMEL4	Rel-5	B	Introduction of Reference Number for MT-SMS	CR	29.078		1	X.5.1	conditionally approved	Ericsson
N2-010317	CAMEL4	Rel-5	B	Introduction of CPH operations (ASN.1)	CR	29.078		2	d5.1.0	approved	Vodafone Group Plc

None Endorced

Annex C List of Documents

TDoc #	Type	Title	Source	WI	CR #	Rev	Cat	Spec	Rel	Version	Conclusion
N2-010278	AGENDA	Agenda	CN2 chairman								approved
N2-010279	AGENDA	Allocation of documents to agenda items	CN2 chairman								noted
N2-010280	WID	CAMEL4 scope in Rel-5 for TSG-CN (WID)	CN2 chairman	CAMEL4					Rel-5		revised to 371
N2-010281	CALENDAR	CN2 year 2001 meeting calendar	CN2 chairman								noted
N2-010282	CR	GGSN address in SGSN to SCP interface	Nokia	CAMEL3	286	0	F	23.078	R99	3.8.0	approved
N2-010283	CR	GGSN address in SGSN to SCP interface	Nokia	CAMEL3	287	0	A	23.078	Rel-4	4.0.0	approved
N2-010284	CR	GGSN address in SGSN to SCP interface	Nokia	CAMEL3			A	23.078	Rel-5	5d.7.0	approved

N2-010285	CR	Mapping of Call Forwarding parameters from CAP-Connect to ISUP-IAM and CAP-InitialDP	Nokia	CAMEL2	A161	0	F	03.78	R97	6.8.0	revised to 379
N2-010286	CR	Mapping of Call Forwarding parameters from CAP-Connect to ISUP-IAM and CAP-InitialDP	Nokia	CAMEL2	A162	0	A	03.78	R98	7.5.0	revised to 380
N2-010287	CR	Mapping of Call Forwarding parameters from CAP-Connect to ISUP-IAM and CAP-InitialDP	Nokia	CAMEL2	288	0	A	23.78	R99	3.8.0	revised to 381
N2-010288	CR	Mapping of Call Forwarding parameters from CAP-Connect to ISUP-IAM and CAP-InitialDP	Nokia	CAMEL2	289	0	A	23.78	Rel-4	4.0.0	revised to 382
N2-010289	CR	Mapping of Call Forwarding parameters from CAP-Connect to ISUP-IAM and CAP-InitialDP	Nokia	CAMEL2			A	23.078	Rel-5	5d.7.0	revised to 383
N2-010290	CR	Correction of error implementing CR 23.078-181r2	Rapporteur	CAMEL3	290		F	23.078	R99	3.8.0	approved
N2-010291	CR	Correction of error implementing CR 23.078-181r2	Rapporteur	CAMEL3	291		A	23.078	Rel-4	4.0.0	approved
N2-010292	CR	Contradiction and inconsistency among descriptions on SMS	Siemens AG	CAMEL3	155		F	29.078	R99	3.7.0	revised to 399
N2-010293	CR	Contradiction and inconsistency among descriptions on SMS	Siemens AG	CAMEL3	156		A	29.078	Rel-4	4.0.0	revised to 462
N2-010294	TS-INFO	Draft 23.078 V5D.6.0	Rapporteur	CAMEL4				23.078	Rel-5		noted
N2-010295	CR	For better description of the triggering criteria for MT-SMS	Siemens AG	CAMEL4				23.078	Rel-5		withdrawn
N2-010296	CR	For better description of the triggering criteria for MT-SMS	Siemens AG	CAMEL4				29.078	Rel-5		withdrawn
N2-010297	CR	Mobility management for GPRS subscriber	Siemens AG	CAMEL4				23.008	Rel-5		postponed
N2-010298	CR	Mobility management for GPRS subscriber	Siemens AG	CAMEL4				23.016	Rel-5		postpoed
N2-010299	CR	Mobility management for GPRS subscriber	Siemens AG	CAMEL4				23.060	Rel-5		postponed
N2-010300	CR	Mobility management for GPRS subscriber (chapter 9)	Siemens AG	CAMEL4				23.078	Rel-5		noted
N2-010301	CR	Mobility management for GPRS subscriber in chapter 10	Siemens AG	CAMEL4				23.078	Rel-5		postponed
N2-010302	CR	Mobility management for GPRS subscriber	Siemens AG	CAMEL4				29.002	Rel-5		postponed

N2-010303	CR	Providing the location information during ongoing call	Siemens AG	CAMEL4				23.078	Rel-5		noted
N2-010304	CR	Providing the location information during ongoing call	Siemens AG	CAMEL4				29.078	Rel-5		postponed
N2-010305	CR	Inclusion of ODB data in ATM	Siemens AG	CAMEL4				23.078	Rel-5		postponed
N2-010306	CR	Inclusion of ODB data in ATM	Siemens AG	CAMEL4				29.002	Rel-5		postponed
N2-010307	CR	Supported CAMEL Phases in VLR is temporary	Vodafone Group Plc	CAMEL3		0	F	23.008	R99	3.5.0	revised to 377
N2-010308	CR	Handling of second SIFOC	Vodafone Group Plc	CAMEL3	292	0	F	23.078	R99	3.8.0	revised to 404
N2-010309	CR	Handling of second SIFOC	Vodafone Group Plc	CAMEL3	293	0	A	23.078	Rel-4	4.0.0	revised to 406
N2-010310	CR	Introduction of CAMEL phase 4	Vodafone Group Plc	CAMEL4		4	B	23.018	Rel-5	4.2.0	noted
N2-010311	CR	Introduction of CAMEL phase 4	Vodafone Group Plc	CAMEL4		0	B	23.083	Rel-5	4.2.0	noted
N2-010312	CR	Corrections for CAMEL support of OR	Vodafone Group Plc	CAMEL4		2	C	23.078	Rel-5	5D.7.0	revised to 416
N2-010313	DISC	CPH: Open Issues	Vodafone Group Plc								revised to 422
N2-010314	CR	Handling of reconnect after leg 2 disconnects	Vodafone Group Plc	CAMEL4		0	F	23.078	Rel-5	5D.7.0	revised to 420
N2-010315	CR	Corrections to procedure CAMEL_EXPORT_LEG_MSC	Vodafone Group Plc	CAMEL4		0	F	23.078	Rel-5	5D.7.0	revised to 431
N2-010316	CR	Addition of NC & NP columns to IF tables	Vodafone Group Plc	CAMEL4		0	C	23.078	Rel-5	5D.7.0	revised to 424
N2-010317	CR	Introduction of CPH operations (ASN.1)	Vodafone Group Plc	CAMEL4		2	B	29.078	Rel-5	d5.1.0	approved
N2-010318	CR	Correction to GPRS SDL:no state transition for QoS-induced ACR-GPRS	Ericsson	CAMEL3	294		F	23.078	R99	3.8.0	revised to 389
N2-010319	CR	Correction to ACR-GPRS procedure description	Ericsson	CAMEL3	157		F	29.078	R99	3.7.0	revised to 391
N2-010320	CR	Correction to IDP-GPRS & EDP-GPRS: reporting the GGSN Address for signalling	Ericsson	CAMEL3	158		F	29.078	R99	3.7.0	rejected

N2-010321	CR	Clarification on the usage of SII2 parameter in CAP	Ericsson	CAMEL3	159		F	29.078	R99	3.7.0	revised to 408
N2-010322	CR	Correction to state transition for Assisting gsmSSF	Ericsson	CAMEL3	160		F	29.078	R99	3.7.0	revised to 414
N2-010323	CR	Correction to IMPORT statements	Ericsson	CAMEL3	161		F	29.078	R99	3.7.0	revised to 384
N2-010324	CR	Correction of gsmSCF initiated new calls: CAMEL_ICA_MSC process	Alcatel	CAMEL4		8	F	23.078	Rel-5	5D.7.0	revised to 432
N2-010325	CR	Correction of Call Release	Alcatel	CAMEL4			F	23.078	Rel-5	5D.7.0	revised to 421
N2-010326	DISC	Charging and Information concepts	Alcatel	CAMEL4				23.078	Rel-5		noted
N2-010327	REPORT	Draft Meeting Report from CN2#17	MCC								approved
N2-010328	REPORT	Draft Meeting Report from CN#11	MCC								noted
N2-010329	REPORT	Draft Meeting Report from SA#11	MCC								noted
N2-010330	LS IN	LS on IMS Service Provision	MCC								noted
N2-010331	WORK PLAN	Latest version of the work plan	MCC								noted
N2-010332	REPORT	Report from CAMEL4 CPH adHoc Meeting	CN2 Chairman								approved
N2-010333	CR	ASN.1 syntax correction	Siemens AG	CAMEL3	162		F	29.078	R99	3.7.0	revised to 386
N2-010334	CR	ASN.1 syntax correction	Siemens AG	CAMEL3	163		A	29.078	Rel-4	4.0.0	revised to 387
N2-010335	CR	Correction of the MAXIMUM-FOR-FCI-BILLING-CHARGING value	Nokia	CAMEL3	164		F	29.078	R99	3.7.0	revised to 388
N2-010336	CR	Correction of the MAXIMUM-FOR-FCI-BILLING-CHARGING value	Nokia	CAMEL3	165		A	29.078	Rel-4	4.0.0	approved
N2-010337	CR	Correction of the gprsSSF error handling	Nokia	CAMEL3	166		F	29.078	R99	3.7.0	revised to 393
N2-010338	CR	Correction of the gprsSSF error handling	Nokia	CAMEL3	167		A	29.078	Rel-4	4.0.0	approved
N2-010339	CR	Clarification of the TC dialogue termination	Nokia	CAMEL3	168		F	29.078	R99	3.7.0	revised to 394
N2-010340	CR	Clarification of the TC dialogue termination	Nokia	CAMEL3	169		A	29.078	Rel-4	4.0.0	revised to 395

N2-010341	CR	The termination of the dialogue is not clear after ActivityTestGPRS Return Result.	Nokia	CAMEL3	170		F	29.078	R99	3.7.0	revised to 396
N2-010342	CR	The termination of the dialogue is not clear after ActivityTestGPRS Return Result.	Nokia	CAMEL3	171		A	29.078	Rel-4	4.0.0	revised to 397
N2-010343	CR	Alignement the 29.078 on the 23.078	Alcatel	CAMEL3	172		F	29.078	R99	3.7.0	revised to 410
N2-010344	CR	Correction on the call-Diversion-Treatment-Indicator at the GMSC	Alcatel	CAMEL3	295		F	23.078	R99	3.8.0	revised to 412
N2-010345	CR	Introduction of Reference Number for MT-SMS	Ericsson	CAMEL4			B	23.078	Rel-5	5D.7.0	revised to 433
N2-010346	CR	Introduction of Reference Number for MT-SMS	Ericsson	CAMEL4			B	29.078	Rel-5	X.5.1	revised to 434
N2-010347	CR	Correction to MT-SMS Trigger Criteria	Ericsson	CAMEL4			F	23.078	Rel-5	5D.7.0	revised to 435
N2-010348	CR	Correction to MT-SMS Trigger Criteria	Ericsson	CAMEL4			F	29.002	Rel-5	3.8.0	revised to 436
N2-010349	CR	Handling of reconnect after leg2 disconnects	Vodafone Group Plc	CAMEL4		0	F	23.018	Rel-5	4.2.0	approved
N2-010350	Disc	Definition of eventTypeCharging parameter in RNC & ENC operations	C-DOT	CAMEL4							revised to 425
N2-010351	CR	Handling of RNC & ENC operations in gsmSSF	C-DOT	CAMEL4			B	23.078	Rel-5		revised to 426
N2-010352	CR	Introduction of RNC & ENC operations , procedures & ASN definitions	C-DOT	CAMEL4			B	29.078	Rel-5		revised to 427
N2-010353	CR	Handling of a variable to indicate an existing relationship with CSE	C-DOT	CAMEL4			C	23.018	Rel-5		revised to 428
N2-010354	CR	Creation of Control/Monitoring relationship with CSE at DP3	C-DOT	CAMEL4			C	23.078	Rel-5		revised to 429
N2-010355	CR	InitialDP modified to indicate existance of relationship with CSE	C-DOT	CAMEL4			C	29.078	Rel-5		revised to 430
N2-010356	CR	Introduction of Reference Number for MO-SMS	Ericsson	CAMEL3	296		B	23.078	R99	3.8.0	revised to 400
N2-010357	CR	Introduction of Reference Number for MO-SMS	Ericsson	CAMEL3	175		B	29.078	R99	3.7.0	revised to 402
N2-010358	CR	Introduction of MT-SMS interworking	Ericsson	CAMEL4			B	23.060	Rel-5		revised to 438

N2-010359	LS OUT	LS from CN2 to SA5: Inclusion of CAMEL elements in MT-SMS CDR	Ericsson	CAMEL4					Rel-5		revised to 440
N2-010360	CR	Correction of gprsSSF TC usage	Alcatel	CAMEL3	173		F	29.078	R99	3.7.0	revised to 367
N2-010361	CR	Setting of PDP Type Organization Spare Bits	Alcatel	CAMEL3	174		F	29.078	R99	3.7.0	revised to 442
N2-010362	CR	Supported CAMEL Phases in VLR is temporary	Vodafone Group Plc	CAMEL3		0	A	23.008	Rel-4	4.0.0	revised to 378
N2-010363	INFO	Status of CN2 specifications after TSG#11	MCC								noted
N2-010364	TDOC LIST	Tdoc list before CN2#18 starts	MCC								noted
N2-010365	REPORT	Report from SA1 CAMEL adHoc meeting	MCC								revised to 370
N2-010366	CALENDAR	CN2 year 2002 meeting calendar	CN2 chairman								noted
N2-010367	CR	Correction of gprsSSF TC usage	Alcatel	CAMEL3	173	1	F	29.078	R99	3.7.0	noted
N2-010368	DISC	“Reporting of data volume and duration in excess of 4Gbyte and 24 hours respectively”.	Ericsson								noted
N2-010369	LS IN	Charging requirements on Call Party Handling	SA1								noted
N2-010370	REPORT	Report from SA1 CAMEL adHoc meeting									noted
N2-010371	WID	CAMEL4 scope in Rel-5 for TSG-CN	CN2 chairman	CAMEL4					Rel-5		approved
N2-010372	Work plan	CN2#18 comments on the work plan	CN2 chairman	CAMEL4					Rel-5		revised to 471
N2-010373	CR	Addition of SCCP information for the interface between gsmSCF and SGSN	Lucent Technologies					29.002	R99		withdrawn
N2-010374	CR	Addition of SCCP information for the interface between gsmSCF and SGSN	Lucent Technologies					29.002	Rel-4		withdrawn
N2-010375	CR	Addition of SCCP information for the interface between gsmSCF and SGSN	Lucent Technologies					29.002	Rel-5		withdrawn
N2-010376	DISC	Implementation of enhancements to subscriber dialled services	Vodafone Group Plc								noted
N2-010377	CR	Supported CAMEL Phases in VLR is temporary	Vodafone Group Plc	CAMEL3		1	F	23.008	R99	3.5.0	endorced

N2-010378	CR	Supported CAMEL Phases in VLR is temporary	Vodafone Group Plc	CAMEL3		1	A	23.008	Rel-4	4.0.0	endorced
N2-010379	CR	Mapping of Call Forwarding parameters from CAP-Connect to ISUP-IAM and CAP-InitialDP	Nokia	CAMEL2	A161	1	F	03.78	R97	6.8.0	approved
N2-010380	CR	Mapping of Call Forwarding parameters from CAP-Connect to ISUP-IAM and CAP-InitialDP	Nokia	CAMEL2	A162	1	A	03.78	R98	7.5.0	approved
N2-010381	CR	Mapping of Call Forwarding parameters from CAP-Connect to ISUP-IAM and CAP-InitialDP	Nokia	CAMEL3	288	1	F	23.078	R99	3.8.0	approved
N2-010382	CR	Mapping of Call Forwarding parameters from CAP-Connect to ISUP-IAM and CAP-InitialDP	Nokia	CAMEL3	289	1	A	23.078	Rel-4	4.0.0	approved
N2-010383	CR	Mapping of Call Forwarding parameters from CAP-Connect to ISUP-IAM and CAP-InitialDP	Nokia	CAMEL3			A	23.078	Rel-5	5d.7.0	approved
N2-010384	CR	Correction to IMPORT statements	Ericsson	CAMEL3	161	1	F	29.078	R99	3.7.0	approved
N2-010385	CR	Correction to IMPORT statements	Ericsson	CAMEL3	176		A	29.078	Rel-4	4.0.0	approved
N2-010386	CR	ASN.1 syntax correction	Siemens AG	CAMEL3	162	1	F	29.078	R99	3.7.0	revised to 453
N2-010387	CR	ASN.1 syntax correction	Siemens AG	CAMEL3	163	1	A	29.078	Rel-4	4.0.0	revised to 454
N2-010388	CR	Correction of the MAXIMUM-FOR-FCI-BILLING-CHARGING value	Nokia	CAMEL3	164	1	F	29.078	R99	3.7.0	revised to 441
N2-010389	CR	Correction to GPRS SDL: no state transition for QoS-induced ACR-GPRS	Ericsson	CAMEL3	294	1	F	23.078	R99	3.8.0	approved
N2-010390	CR	Correction to GPRS SDL: no state transition for QoS-induced ACR-GPRS	Ericsson	CAMEL3	297		A	23.078	Rel-4	4.0.0	approved
N2-010391	CR	Correction to ACR-GPRS procedure description	Ericsson	CAMEL3	157	1	F	29.078	R99	3.7.0	approved
N2-010392	CR	Correction to ACR-GPRS procedure description	Ericsson	CAMEL3	177		A	29.078	Rel-4	4.0.0	approved
N2-010393	CR	Correction of the gprsSSF error handling	Nokia	CAMEL3	166	1	F	29.078	R99	3.7.0	approved
N2-010394	CR	Clarification of the TC dialogue termination	Nokia	CAMEL3	168	1	F	29.078	R99	3.7.0	approved
N2-	CR	Clarification of the TC dialogue	Nokia	CAMEL3	169	1	A	29.078	Rel-4	4.0.0	approved

010395		termination									
N2-010396	CR	The termination of the dialogue is not clear after ActivityTestGPRS Return Result.	Nokia	CAMEL3	170	1	F	29.078	R99	3.7.0	approved
N2-010397	CR	The termination of the dialogue is not clear after ActivityTestGPRS Return Result.	Nokia	CAMEL3	171	1	A	29.078	Rel-4	4.0.0	approved
N2-010398	CR	Inclusion of warning note for the reporting of total duration or volume for GPRS	Ericsson	CAMEL3	298		F	23.078	R99	3.8.0	revised to 459
N2-010399	CR	Contradiction and inconsistency among descriptions on SMS	Siemens AG	CAMEL3	155	1	F	29.078	R99	3.7.0	revised to 461
N2-010400	CR	Introduction of Reference Number for MO-SMS	Ericsson	CAMEL3	296	1	F	23.078	R99	3.8.0	revised to 437
N2-010401	LS OUT	Liaison Statement on introduction of SMS Reference Number for SMS	Ericsson								revised to 446
N2-010402	CR	Introduction of Reference Number for MO-SMS	Ericsson	CAMEL3	175	1	F	29.078	R99	3.7.0	revised to 447
N2-010403	PRES	Presentation of outgoing call barring	Lucent Technologies								revised to 423
N2-010404	CR	Handling of second SIFOC	Vodafone Group Plc	CAMEL3	292	1	F	23.078	R99	3.8.0	approved
N2-010405	CR	Initialisation of variable to monitor activations of CSIs	Vodafone Group Plc	CAMEL3			F	23.018	R99	3.7.0	revised to 419
N2-010406	CR	Handling of second SIFOC	Vodafone Group Plc	CAMEL3	293	1	A	23.078	Rel-4	4.0.0	approved
N2-010407	CR	Initialisation of variable to monitor activations of CSIs	Vodafone Group Plc	CAMEL3			A	23.018	Rel-4	3.2.0	endorced
N2-010408	CR	Correction on the usage of SII2 parameter in CAP	Ericsson	CAMEL3	159	1	F	29.078	R99	3.7.0	approved
N2-010409	CR	Correction on the usage of SII2 parameter in CAP	Ericsson	CAMEL3	178		A	29.078	Rel-4	4.0.0	approved
N2-010410	CR	Alignement the 29.078 on the 23.078	Alcatel	CAMEL3	172	1	F	29.078	R99	3.7.0	approved
N2-010411	CR	Alignement the 29.078 on the 23.078	Alcatel	CAMEL3	179		A	29.078	Rel-4	4.0.0	approved
N2-010412	CR	Correction on the call-Diversion-Treatment-Indicator at the GMSC	Alcatel	CAMEL3	295	1	F	23.078	R99	3.8.0	approved

N2-010413	CR	Correction on the call-Diversion-Treatment-Indicator at the GMSC	Alcatel	CAMEL3	299		A	23.078	Rel-4	4.0.0	approved
N2-010414	CR	Correction to state transition for Assisting gsmSSF	Ericsson	CAMEL3	160	1	F	29.078	R99	3.7.0	approved
N2-010415	CR	Correction to state transition for Assisting gsmSSF	Ericsson	CAMEL3	180		A	29.078	Rel-4	4.0.0	approved
N2-010416	CR	Corrections for CAMEL support of OR	Vodafone Group Plc	CAMEL4		2	C	23.078	Rel-5	5D.7.0	revised to 439
N2-010417	LS OUT	Liaison Statement on Optimal Routeing of a forwarded call	Vodafone Group Plc	CAMEL4					Rel-5		revised to 465
N2-010418	LS OUT	LS “Charging and Information concepts for CAMEL Call Party Handling”	Alcatel	CAMEL4					Rel-5		revised to 468
N2-010419	CR	Initialisation of variable to monitor activations of CSIs	Vodafone Group Plc	CAMEL3			F	23.018	R99	3.7.0	endorced
N2-010420	CR	Handling of reconnect after leg 2 disconnects	Vodafone Group Plc	CAMEL4		1	F	23.078	Rel-5	5D.7.0	approved
N2-010421	CR	Correction of Call Release	Alcatel	CAMEL4		1	F	23.078	Rel-5	5D.7.0	approved
N2-010422	DISC	CPH Open issues	Vodafone Group Plc	CAMEL4					Rel-5		revised to 469
N2-010423	PRES	Presentation of outgoing call barring	Lucent Technologies								noted
N2-010424	CR	Addition of NC & NP columns to IF tables	Vodafone Group Plc	CAMEL4		1	C	23.078	Rel-5	5D.7.0	approved
N2-010425	Disc	Definition of eventTypeCharging parameter in RNC & ENC operations	C-DOT	CAMEL4							noted
N2-010426	CR	Handling of RNC & ENC operations in gsmSSF	C-DOT	CAMEL4		1	B	23.078	Rel-5		revised to 455
N2-010427	CR	Introduction of RNC & ENC operations , procedures & ASN definitions	C-DOT	CAMEL4		1	B	29.078	Rel-5		noted
N2-010428	CR	Handling of a variable to indicate an existing relationship with CSE	C-DOT	CAMEL4			C	23.018	Rel-5		noted
N2-010429	CR	Creation of Control/Monitoring relationship with CSE at DP3	C-DOT	CAMEL4			C	23.078	Rel-5		noted
N2-010430	CR	InitialDP modified to indicate existance of relationship with CSE	C-DOT	CAMEL4			C	29.078	Rel-5		noted

N2-010431	CR	Corrections to procedure CAMEL_EXPORT_LEG_MSC	Vodafone Group Plc	CAMEL4		1	F	23.078	Rel-5	5D.7.0	approved
N2-010432	CR	Correction of gsmSCF initiated new calls: CAMEL_ICA_MSC process	Alcatel	CAMEL4		9	F	23.078	Rel-5	5D.7.0	approved
N2-010433	CR	Introduction of Reference Number for MT-SMS	Ericsson	CAMEL4		1	B	23.078	Rel-5	5D.7.0	conditionally approved
N2-010434	CR	Introduction of Reference Number for MT-SMS	Ericsson	CAMEL4		1	B	29.078	Rel-5	X.5.1	conditonally approved
N2-010435	CR	Correction to MT-SMS Trigger Criteria	Ericsson	CAMEL4		1	F	23.078	Rel-5	5D.7.0	approved
N2-010436	CR	Correction to MT-SMS Trigger Criteria	Ericsson	CAMEL4		1	F	29.002	Rel-5	3.8.0	approved
N2-010437	CR	Introduction of Reference Number for MO-SMS	Ericsson	CAMEL3	296	2	F	23.078	R99	3.8.0	revised to 444
N2-010438	CR	Introduction of MT-SMS interworking	Ericsson	CAMEL4		1	B	23.060	Rel-5		endorced
N2-010439	CR	Corrections for CAMEL support of OR	Vodafone Group Plc	CAMEL4		3	C	23.078	Rel-5	5D.7.0	approved
N2-010440	LS OUT	LS from CN2 to SA5: Inclusion of CAMEL elements in MT-SMS CDR	Ericsson	CAMEL4					Rel-5		approved
N2-010441	CR	Correction of the MAXIMUM-FOR-FCI-BILLING-CHARGING value	Nokia	CAMEL3	164	2	F	29.078	R99	3.7.0	approved
N2-010442	CR	Setting of End User Address Spare Bits	Alcatel	CAMEL3	174	1	F	29.078	R99	3.7.0	approved
N2-010443	CR	Setting of End User Address Spare Bits	Alcatel	CAMEL3	181		A	29.078	Rel-4	4.0.0	approved
N2-010444	CR	Introduction of Reference Number for MO-SMS	Ericsson	CAMEL3	296	3	F	23.078	R99	3.8.0	approved
N2-010445	CR	Introduction of Reference Number for MO-SMS	Ericsson	CAMEL3	300		A	23.078	Rel-4	4.0.0	approved
N2-010446	LS OUT	Liaison Statement on introduction of SMS Reference Number for SMS	Ericsson	CAMEL3							Conditionally approved
N2-010447	CR	Introduction of Reference Number for MO-SMS	Ericsson	CAMEL3	175	2	F	29.078	R99	3.7.0	approved
N2-010448	CR	Introduction of Reference Number for MO-SMS	Ericsson	CAMEL3	182		A	29.078	Rel-4	4.0.0	approved
N2-010449	CR	CAMEL Capability Handling in GPRS-CSI	Vodafone	CAMEL3	301		F	23.078	R99	3.8.0	approved

N2-010450	CR	CAMEL Capability Handling in GPRS-CSI	Vodafone	CAMEL3	302		A	23.078	Rel-4	4.0.0	approved
N2-010451	CR	Enchancements to Subscribed Dialled Services	Vodafone	CAMEL4			B	23.018	Rel-5	4.2.0	noted
N2-010452	CR	Enhancements to Subscribed Dialled Services	Vodafone	CAMEL4			B	23.078	Rel-5	5d.7.0	noted
N2-010453	CR	ASN.1 syntax correction	Siemens AG	CAMEL3	162	2	F	29.078	R99	3.7.0	revised to 456
N2-010454	CR	ASN.1 syntax correction	Siemens AG	CAMEL3	163	2	A	29.078	Rel-4	4.0.0	revised to 457
N2-010455	CR	Handling of RNC & ENC operations in gsmSSF	C-DOT	CAMEL4		1	B	23.078	Rel-5	5d.7.0	revised to 470
N2-010456	CR	ASN.1 syntax correction	Siemens AG	CAMEL3	162	3	F	29.078	R99	3.7.0	approved
N2-010457	CR	ASN.1 syntax correction	Siemens AG	CAMEL3	163	3	A	29.078	Rel-4	4.0.0	approved
N2-010458	LS IN	LS not received									withdrawn
N2-010459	CR	Inclusion of warning note for the reporting of total duration or volume for GPRS	Ericsson	CAMEL3	298	1	F	23.078	R99	3.8.0	approved
N2-010460	CR	Inclusion of warning note for the reporting of total duration or volume for GPRS	Ericsson	CAMEL3	303		A	23.078	Rel-4	4.0.0	approved
N2-010461	CR	Contradiction and inconsistency among descriptions on SMS	Siemens AG	CAMEL3	155	2	F	29.078	R99	3.7.0	revised to 466
N2-010462	CR	Contradiction and inconsistency among descriptions on SMS	Siemens AG	CAMEL3	156	1	A	29.078	Rel-4	4.0.0	revised to 467
N2-010463	CR	Indication of gsmSCF Address in Continue GPRS and Connect GPRS Ifs	Alcatel, T-Mobil	CAMEL3	304		F	23.078	R99	3.8.0	revised to 472
N2-010464	CR	Liaison Statement on Optimal Routeing of a forwarded call	Alcatel, T-Mobil	CAMEL3	183		F	29.078	R99	3.7.0	revised to 474
N2-010465	LS OUT	Output LS to SA1: Corrections for CAMEL support of OR	Vodafone	CAMEL4				23.078	Rel-5		approved
N2-010466	CR	Contradiction and inconsistency among descriptions on SMS	Siemens AG	CAMEL3	155	3	F	29.078	R99	3.7.0	approved
N2-010467	CR	Contradiction and inconsistency among descriptions on SMS	Siemens AG	CAMEL3	156	2	A	29.078	Rel-4	4.0.0	approved
N2-010468	LS OUT	LS “Charging and Information concepts for CAMEL Call Party Handling”	Alcatel	CAMEL4							approved

N2-010469	DISC	CPH: Open Issues	Vodafone	CAMEL4							noted
N2-010470	CR	Handling of RNC & ENC operations in gsmSSF	C-DOT	CAMEL4		1	B	23.078	Rel-5	5d.7.0	approved
N2-010471	Work plan	Progress of CAMEL work, changes to Work plan status	CN2 chairman								approved
N2-010472	CR	Indication of gsmSCF Address in Continue GPRS and Connect GPRS IFs	Alcatel, T-Mobil, Ericsson	CAMEL3	304	1	F	23.078	R99	3.8.0	approved
N2-010473	CR	Indication of gsmSCF Address in Continue GPRS and Connect GPRS Ifs	Alcatel, T-Mobil, Ericsson	CAMEL3	305		A	23.078	Rel-4	4.0.0	approved
N2-010474	CR	Indication of gsmSCF Address in Continue GPRS and Connect GPRS Ifs	Alcatel, T-Mobil	CAMEL3	183	1	F	29.078	R99	3.7.0	approved
N2-010475	CR	Indication of gsmSCF Address in Continue GPRS and Connect GPRS Ifs	Alcatel, T-Mobil, Ericsson	CAMEL3	184		A	29.078	Rel-4	4.0.0	approved

Annex D Joint meeting between CN1/2/3/4

Attendance: CN1: All, CN2: 14, CN3: 8, CN4: 7

The report below is part of the CN1 Meeting report.

23.218 issues for joint CN WG session

N1-010504 : SA2 (S2-010798r2), Type: LS IN , Title: Liaison Statement on IMS-Service Provision

Discussion : Forwarded to this joint session from CN1#17, so for CN1 comments see also this doc. in chapter 3. Besides agreeing the Cx interface SA2 agreed on a single standardised protocol to be supported by the S-CSCF for service control. Guidelines for further details are summarised in a new chapter to 23.228. These details are given in S2-010797 which is approved by S2 and not attached to this LS.

These new requirements are not contributed to this meeting, so no drafting based on this can be done in CN1 now. But the protocol architectural requirements will be discussed in the S2/N1-4 meeting later this week.

Where is IMS SCF documented? In chapter 6 of 23.218. Mapping between ISC (IM Service Control) standardized proootocol (or SIP+) to CAMEL was proposed to be documented in CN2 specifications. But further work needs to be decided upon when more information is available around these topics. Lot of support to change the confusing SIP+ to a recommendation on name and communicate it to SA2, but SA2 will make that decision and design the needed architecture. A liaison to SA2 is agreed to be sent, and additional clarification to the name could be that this is related to the protocol only.

Additionally it was agreed that the structure of 23.218 should be reviewed and any proposals to change the current structure should be provided in the form of written contributions to the CN joint meeting during CN1 #18.

Conclusion: LS OUT in 888 by Magnus

N1-010749 : 23.218, Lucent, Type: CR, Title: Service Triggers in SIP telephony network

Discussion : This contribution gives some generic points of interests, at which the S-CSCF will interact with service platform during the session.

Received as agood starting point. The granularity of triggeres are too big, and some other triggers as eg PRACK could be of interest to the service as well. Break up response to classes were also asked for. More generic description is needed in order to avoid modification for every protocol modification. Also registration related responses should be looked at. Another way of handling this is by filtering. It was proposed to move it into an informative annex. Another proposal was introduction to chapter 5 directly.

Conclusion: Agreed to put this in as informative annex

N1-010761 : 23.218, Motorola, Type: CR , Title: Modification to scope of TS 23.218

Discussion : A proposal to change the scope so that 23.218 should focus on the Interactions between the S-CSCF and Application Servers (IM_SSF, OSA SCS and SIP Application Servers), and the Mappings and Call Models contained in these entities should not contain the functional requirements for Proxy-CSCF, Interogating-CSCF and Serving-CSCF for basic call/session handling which would be best specified in TS 24.229.

IMS in 23.218 (covering the S-CSCF only) was earlier intended as an analogue to basic call handling in 23.018 and opinions were raised to keep it that way. A new document to handle the service issues, or make 23.218 more service oriented ? Not recomended moving something to the protocol part,-24.229. But if so, then it should preferably be done before taking it to plenary CN#13 for issuing v1.0.0. At least section 5 of 23.218 could be modified to remove P-CSCF and I-CSCF functionality.

Conclusion : Noted

N1-010762 : 23.218, Motorola, Type: INFO , Title: TS 23.218 v.0.5.0

Discussion : Latest available version. No changes has been done yet since the April meeing in Sophia. The work is in progress and the architecture is beeing modified.

Conclusion : Noted

24.228 issues for joint CN WG session

N1-010702 : 24.228, ATT, Lucent, Motorola, Type: CR, Title: Move Annex A to Normative text

Discussion : Please see also 702 under 8.4 since this was a forwarded document from CN1 earlier this week.

TS 24.228 is intended to be input to plenary CN#12 for approval to v1.0.0

Conclusion : Agreed to move annex A to main part except for clause 100 and 101

N1-010706 : 24.228, ATT, Type: CR, Title: Call Transfer Procedures

Discussion : It is proposed that the proposed text be added to an informative Annex (TS 24.228 Annex B) as preliminary material for section 10.5. In addition, the following IETF Internet-Drafts is proposed added to the Work Item Description as IETF dependencies:

- Draft-ietf-sip-cc-transfer-04
- Draft-roach-sip-subscribe-notify-03

An alternative architecture to this where all parties are involved, would be that S-CSCF terminates the REFER and does not impact the first leg, transport (network centric). This was contradicted since UE#1 needs to know about the media, a human centric aapproach. What about privacy on UE#3 and who pays for the transferred leg ? Service control boxes should be shown in the flows. Why do we have 2 scenarios here ? Reason is that eg. REFER is different. Call transfer is a basis for fraud and this document must be reviewed by SA3 before going into the informative annex. 23.228 already has a section on call transfer and therefore a LS should be sent to affected groups,- to S3 with copy to S2 and possibly S5.

Conclusion : Agreed to be put in the annex and not the main body of the TS. LS OUT in 890 by Sunil

N1-010733 : 24.228, Lucent, Type: CR , Title: More service control tasks in 24.228

Discussion : In this contribution, the positions where the service control boxes shall be inserted when 180 Ringing, COMET and 486 BUSY messages are met in S-CSCF are indicated in the list.

Ringing is optional, and adding a service control box in every possible flow and message could more efficiently be made through some text. This list was intended as editing rule for the 24.228 update.

Conclusion : Revised to 891 for CN1 during this week (see agenda item 8.4)

N1-010746 : Lucent, Type: DISCUSSION, Title: An analysis of the requirements for the Max-Forwards header

Discussion : This contribution discusses the handling of ICMP messages by SIP. The contribution concludes that -due to security reasons - the ICMP messages should be ignored by the 3GPP SIP implementations. It is proposed that CN1 sends a liaison statement to the SA3 requesting a clarification pertaining to handling of the ICMP messages in 3GPP SIP implementations.

Both support and not were raised for a liasion doc. This could instead be seen as an implementation issue. The solution should be sought in the routers themselves. A statement of ignoring ICMP is too restrictive. ICMPs from an insecure source could be ignored.

Conclusion : LS OUT in 892 by Milo

N1-010756 : 24.228 Motorola, Type: INFO, Title: 24.228v050 "Signalling flows for the IP multimedia call control based on SIP and SDP"

Discussion : Latest version available, also stored on the 3GPP server under specs/latest draft

Conclusion : Noted

N1-010852 : 24.228, Lucent, Type: CR, Title: Signalling flow for session release

Discussion :

Conclusion : Forwarded to CN1 during the week in 884

N1-010865 : 24.228, Motorola, Type: CR, Title: SIP/SDP compression

Discussion : The number of messages coupled with the typical length of a SIP message places a strenuous burden on bandwidth over the air interface, which remains a scarce and expensive resource. It is proposed that CN1 agree that compression of SIP/SDP messages is required in the Rel-5 IM subsystem architecture over the air interface, and that CN1 should investigate the merits of both text compression and SIP/SDP aware compression schemes.

SA2 still needs to agree on the schemes and where to compress. Building an efficient dictionary are depending on the amount of messages exchanged. The architecture is a way of reducing amount of messages. S-CSCF could limit the number of messages over the radio interface (in case of forked requests) or all messages could be compressed or both. Possibility of compression seems to be reduced since SA3 has an optional security feature between UE and P-CSCF. Should SA4 be involved? If the compression is made in RAN it will appear in the 25 series, and additionally handover aspects need to be handled. A question is if CN1 is a proper place for further contributions ? The working group on algorithm(s) will be dictated with the architectural decisions to be done. In IETF the ROCH group may be taking this up, but 3GPP can not wait for that. This doc is forwarded to CN1 on Friday after the document has been presented in SA2.

Conclusion : Noted. Forwarded to CN1 later this week (see agenda item 8.4)

N1-010881 : From SIP#04 (N1-010582), Type: LS IN, Title: LS “on GPRS work covering break in radio transmission”

Discussion : The joint meeting of SA2 and CN1 identified the following item within 23.228 (see extract under 3 in this liaison) which requires enhancement of a number of GPRS specifications under the control of various working groups. Since CN4 delegates are not all present a request to forward this to CN4 was accepted.

Conclusion : Noted. Forwarded to CN4