Third Generation Partnership Project

Meeting Report v3.0.0

3GPP TSG-CN#8

Düsseldorf, Germany
21st – 23rd June 2000

Hosted by Mannesman, T-Mobil

Chairman: **Stephen Hayes, Ericsson Inc.** Stephen.hayes@ericsson.com

Vice-Chairman: **Ian Park, Vodafone.** Ian.park@vf.vodafone.co.uk

MCC Support: **David Boswarthick, ETSI MCC.** david.boswarthick@etsi.fr

Table of contents

1   Opening of the meeting

The agenda (NP-000211) was approved. This introduced a task oriented organization of the meeting. The document allocation to the agenda can be found in document NP-000393.

2   Items for External Attention

2.1   For PCG Attention

2.1.1   Resignation of Dr. Yabusaki

The resignation of Dr. Yabusaki (DoCoMo) from the position of TSG-CN vice-chair was announced. A call for candidates will be put forth. Elections for the position will be held at CN#9. Dr. Yabusaki's contribution to TSG-CN will be missed.

2.1.2 Use of ETSI OID in BICC

Liaison NP-000233 on the OID (Organizational Identifier) was discussed. Since there are problems with the allocation by the ITU of an organizational identifier to the 3GPP, it is requested that the ETSI OID be used to identify the codecs being used on BICC. This recommendation will be raised to the PCG since it is necessary to pick a single organizational identifier to allow interworking.

2.1.3 External Liaisons

The PCG will be asked to authorize the ability to liaison with OMG and JAIN (Needed by N5).

2.1.4 ITU-T Coordination

The ITU-T Ad-Hoc is currently only an editorial body which prepares output for delivery to the ITU-T (by whatever channels). The ToR should be updated to allow it to draft positions for approval at the CN plenary.

A GSC-6 Ad-Hoc is being considered for discussion of the relationship of ITU-T and the 3GPPs. This is currently in the Nov./Dec. timeframe. A request will be made to the PCG to allow the 3GPP to send a delegation (if invited). It will also be requested that the GSC-6 Ad-Hoc be moved to the January, 2001 timeframe to allow the TSG to formulate a position after any restructuring has occurred in the ITU-T.

With the resignation of Dr. Yabusaki, the position of ITU-T Coordination Ad-Hoc convenor is now vacant. The convenor requested that persons interested in chairing this group come forth. The convenor should ideally be active within the ITU-T. No candidate came forward. Since it appears that the ITU-T Coordination Ad-Hoc will not be active until the next CN plenary, the selection of a convenor was deferred until that time.

2.2   For SA Attention

2.2.1 Terminology

Consistent terminology for identifying the access technology (GERAN/UTRAN) and the network operating mode (2G vs. 3G) should be decided across the TSGs. For the time being the CN terminology will use GSM/UMTS for differentiation.

3 Work Items for R'99 and Earlier

3.1 Camel Phase 2

This work item is complete.

Various corrective CRs approved (NP-000240, NP-000241, NP-000242).

3.2 Camel Phase 3

This work item is complete.

Various functional/editorial/corrective CRs approved (NP-000243, NP-000244, NP-000245, NP-000246, NP-000247, NP-000248, NP-000249, NP-000250, NP-000251, NP-000280, NP-000289)..

3.3 Security

This work item is complete.

It was decided to delete the P-TMSI signature from the "Service Request" message to align with 23.060. However, there were concerns over the possible security implications of this removal. S3 is therefore requested to check this and if necessary request that the P-TMSI Signature be restored to both 23.060 and 24.008.

Support of GEA2 ciphering was approved for R'99 but was rejected for R'98 (and R'97). It seems probable that the radio interface could be handled without backwards compatibility problems, however backwards compatibility problems may arise due to GTP and the mapping of this functionality to earlier versions of GTP. Since this implies a functional change and it was not supported by all manufacturers, this change was rejected for earlier releases. N4 was requested to investigate GEA2 support in GTP for R'99. A liaison was sent to S3 informing them of the situation.

NOTE: At the subsequent SA#8 meeting, it was clarified that the goal was not to support GEA2 ciphering for R'98 and R'97, but only to allow the production of R'97 and R'98 terminals with GEA2 support. It was expected that when such terminals encountered a R'97 or R'98 network, that appropriate error handling would lead to the default selection of GEA1. N1 was asked to revisit the issue and ensure that backwards compatibility existed over the radio interface for R'97 and R'98.

Various functional enhancement, corrective, and editorial CRs were approved. (NP-000273, NP-000295, NP-000326, NP-000373).

NOTE: CR207r1 to 24.008 was approved in CN#8 (NP-000273). Part of this correction describes how the mobile shall behave with respect to integrity checking in the case of an emergency call. However at SA#8 the CR95r1 to 33.102 was not approved. This S3 CR describes the functional behaviour of the mobile and network with respect to an emergency call and integrity check failures. This means that the requirements for emergency call handling with respect to integrity checking is not currently defined. CR207r1 to 24.008 remains approved (since it was not formally a linked CR), however additional CRs may be needed to 24.008 once the functional behaviour is settled.

3.4 GSM Maintenance

This work item is complete.

Various corrective CRs approved (NP-000226).

3.5 EDGE

This work item is complete.

Various corrective CRs approved (NP-000279).

3.6   T.E.I

This work item is complete.

Various functional/editorial/corrective CRs approved (NP-000229, NP-000258, NP-000368, NP-000370, NP-000371).

The CRs to introduce pentadecimal IMEIs were not approved. After much debate this was rejected since there was a functional change and multiple manufacturers objected. It was also felt that the ongoing work in IMEI reallocation could also relieve pressure on having enough IMEIs. A liaison (NP-000386) was sent to GSMA and EICTA asking for their input on an appropriate cutover date for permitting pentadecimal IMEIs and on progress of the IMEI restructuring work.

3.7   Multimedia

This work item is complete.

Various functional/corrective CRs approved (NP-000227, NP-000271).

3.8   OoBTC

This work item is complete (Note: scope was reduced). The assumption that negotiation is not needed in R'99 remains valid.

No CRs.

3.9   ASCI

This work item is complete.

Various corrective CRs approved (NP-000287).

An SMG3 meeting was also held which approved CRs to ASCI R'99 (NP-000275) and ASCI R'00 (NP-000276). A R'00 ASCI work item was also approved (NP-000404).

3.10 Call Deflection

This work item is complete.

Various corrective CRs approved (NP-000288).

3.11 CCBS

This work item is complete.

Various corrective CRs approved (NP-000290).

3.12 CF Enhancements

This work item is complete.

Various functional/corrective CRs approved (NP-000291).

3.13 GPRS

This work item is complete.

Various functional/corrective CRs approved (NP-000269, NP-000318).

3.14 GTP Enhancements

This work item is complete.

Various editorial/corrective CRs approved (NP-000292, NP-000376).

3.15 Handover

This work item is complete.

Various corrective CRs approved (NP-000294).

3.16 GSM_UMTS Interworking

This work item is complete.

Various functional/corrective CRs approved (NP-000270).

The proposal to remove the Service Accept message was not approved. It was felt that there were inconsistent architectural requirements in 23.060 since it calls for layering independence while at the same time the Service Accept message was removed. One concern was the difficulty of making USIM-less packet emergency calls without this message. Joint N1/S2 meetings are planned to further discuss this topic.

3.17 Location Services

This work item is complete.

Various corrective CRs approved (NP-000296).

3.18 MNP

This work item is complete.

Various functional CRs approved (NP-000297).

3.19 Multicall

This work item is complete.

Various functional/editorial/corrective CRs approved (NP-000278, NP-000298).

3.20 QoS Enhancements

This work item is complete.

Various functional/corrective CRs approved (NP-000272, NP-000299).

3.21 CS Bearers in UMTs

This work item is complete.

Various functional/corrective CRs approved (NP-000223).

3.22 R99 service Clean-up

This work item is complete.

Various corrective CRs approved (NP-000228).

3.23 OSA

This work item is complete.

Specifications 3G TS 29.198, Open Services Architecture, Application Programming Interface - part 1 and TR 29.998, Open Services Architecture, Application Programming Interface - part 2 were approved and raised to version 3.0.0.

4 Work Items for R'00

4.1 Project Plan

Coordination meetings between CN/S2 and CN/S3 have been held to provide input into the project plan. This input as well as input provided by N2 has been incorporated into the latest versions.

4.2 Call Control & Roaming

The WIs L3 segmentation and turbocharger were deleted.

A WI on R'00 SIP-CC was reviewed but further work is needed. Two days during the August N1 will be allocated to SIP discussions.

A WI on emergency call enhancements in CS was approved (NP-000379). This allows for multiple emergency centers and recall of an emergency caller even for USIM-less emergency calls.

A WI on emergency call enhancements in PS was approved (NP-000380). This will bring PS and VoIP up to the same level of emergency call functionality as the CS domain (including support of multiple emergency centers and recall of an emergency caller even for USIM-less emergency calls).

A WI on Service Modification without pre-notification was approved (NP-000381): This allows for switching between services over at least ISUP and BICC.

The specification 3G TS 23.146 v2.0.0 Real time NT facsimile was completed and raised to version 4.0.0. CRs associated with this change were also approved (NP-000382). Some R'99 cleanup may still be required to remove inadvertent changes already introduced.

4.3 CODECS

TrFO workshops are continuing in this area. The next workshop is planned in conjunction with the N4 meeting on July 18.

4.4 Service Platforms

3G TR 21.978 Feasibility Study Report - CAMEL Control of VoIP was approved and raised to v3.0.0. Note that although it addresses VoIP, it is a R'99 report and not intended to be carried forward to R'00.

4.5 Security

The MAP CRs related to MAP layer 3 security were approved (NP-000327). This implies that 29.002 will migrate to v4.0.0. This completes the R'00 WI: CN Security: Minimal Solution.

Note that securing of other network interfaces is covered under the R'00 WI: CN Security: Full Solution. Key management is also covered under a separate WI.

5 Work organization

5.1 CN/S2 Worksplit

Workshops have been held between CN and S2 on work item planning. This has allowed updating of the project plan and discussion of work split. It has been agreed between CN and S2 that N4 will take responsibility for the stage 2 work for the separation of control and bearer in the CS domain (H.248). N3 will be responsible for determining the parameter values. S2 will be responsible for a feasibility study (with N4 involvement) of the separation of control and bearer in the PS domain. The responsibility for the actual work (subsequent to the feasibility study) is to be determined.

A worksplit has also been agreed between S2 and N5 for the VHE work. S2 will be responsible for the VHE architectural work while N5 will cover all aspects of the OSI API.

5.2 ToRs

ToRs have been approved for N2 (NP-000363) and N5 (NP-000305). ToRs for N3 and N4 were reviewed and have been referred back to the working groups for further updates. The ToR for CN will be discussed electronically for decision in CN#9.

5.3 R'00 Timeframes

In response to the BT contribution on R'00 scope (NP-000328) estimates were made on the amount of time CN would take to complete any required protocol work once any dependencies were fulfilled. The following table shows the estimates. It should be noted that these numbers are very speculative given that in most cases WIDs do not yet exist.

Work Item Title	Resp	WI Status	Dependency	Delta
SIP CC in CN	N1	Approval CN#9	S2	9-15
Emergency calls enhancements for CS	N1	Approved CN#8	S1	3-9
Emergency calls for PS & IM subsystem	N1	Approved CN#8	S2	9-15
RT Fax	N3	Approved CN#3		0
CS Multimedia Swap & Fallback	N3	Approved CN#7		6-9
Service Modification without prenotification	N3	Approved CN#8		3-9
Interworking between IM subsystem & CS	N3	Approval CN#9	S2	9-15
Interworking between IM subsystem & IP	N3	Approval CN#?	S2	9-15
Control & Bearer Separation in CS	S2	Approved SA#?		6-12
Subscriber Data Mgmt in IM subsystem	N4	Approval CN#?	S2	6-15
OSA R'00	S1	Approval SA#8	S1	9-15
Core network security: minimal solution	S3	Approval SA#8		3
Core network security: full solution	S3	Approval SA#8	S3	6-15
Key management	S3	Approval SA#8	S3	6-9
TrFO	S4	Approved SA#?	S2/S4	9-15
QoS for HO for GPRS	S2	? – F/BB/WT	S2	6-12
New feature to be added for CAMEL phase 4	S1	? – F/BB/WT	S1	12-18

This will be revisited at CN#9 after review by the WGs.

5.4 Working Methods / Style

Electronic decisions were discussed in an informal session on Thursday. Although it was recognized that e-decisions are a useful tool, it is difficult to actually use them to an advantage due to the timeframe required for the decisions.

No hard and fast rules should be specified but the only use where they seem to add efficiency to the process is in using them for follow-up decisions after a TSG meeting. Note that these discussions involve the use of e-decisions at the TSG level and not at the WG level.

There was a general endorsement of the RAN proposal (NP-000384) to prohibit functional modifications to R'99. In general there was concern with limiting corrections to R'99 at this point in time.

6   Close of the meeting

The chair thanked the hosts for their hospitality and the excellent facilities and support.

The plenary also recognized Dr. Yabusaki for his service as Vice-Chair of TSG-CN and his contributions to the success of TSG-CN.

The meeting was adjourned at 5:15 pm on June 23, 2000.

ANNEX A: OUTPUT MATERIAL

A.1 Liaisons Approved to be sent following TSG_N#8

NP_Tdoc	Type	to	cc	Title	Sent
NP-000366	LS Out	S3, N4	N1, SA	Support of additional GPRS ciphering algorithms	25/6/2000
NP-000386	LS Out	GSM Association GSM Assoc. BARG GSM Assoc. IREG GSM Assoc. TADIG GSM Assoc. TWG EICTA IPC CCIG		GSM Assoc Terminals working Group and ECTA about the proposed modifications to IEMI coding	25/6/2000

A.2 New TSs /TRs Approved at TSG_N#8

NP_Tdoc	Type	Title	Release	Resulting Version
NP-000222	TS	3G TS 23.146 v2.0.0 Real time NT facsimile	R00	v4.0.0
NP-000252	TR	3G TR 21.978 Feasibility Study Report - CAMEL Control of VoIP	R99	v3.0.0
NP-000310	TS	3G TS 29.198, Open Services Architecture, Application Programming Interface - part 1	R99	v3.0.0
NP-000311	TR	3G TR 29.998, Open Services Architecture, Application Programming Interface - part 2	R99	v3.0.0

A.3 New / Revised Work Items Approved at TSG_N#8

NP_Tdoc	Title	Source	Status
NP-000380	New WI description for R00 -"Emergency call Enhancement for PS"	Ericsson / N1	Approved
NP-000379	New WI description for R00 -"Emergency call Enhancement for CS"	Ericsson / N1	Approved
NP-000381	COMBINED Work item sheet Service Modification without pre-notification	N3 Chairman	Approved
NP-000404	Work item description for ASCI R2000 enhancements	STF139	Approved by SMG3

A.4 CRs Approved at TSG_N#8

TDoc	Spec	CR	Rev	Phase	Subject	Cat	Source	Work item	to Ver.
NP-000376	29.060	115		R99	Clarification of the TEID for Signalling	F	N4	GTP enhancem	3.4.0
NP-000289	29.002	115	1	R99	Activation of TDPs in the call related CSIs on DP basis	F	N4	CAMEL Phase 3	3.4.0
NP-000295	03.03	A043	1	R96	Editorial Modification of section 6.2.2	D	N4	IMEI Security	5.3.0
NP-000223	23.910	006		R99	Clarification for 56 and 64 kbit/s	F	N3	CS Bearers in	3.0.0
NP-000297	23.018	052	2	R99	North American Service Provider Number Portability impacts for Mobile Number	B	N4	MNP	3.4.0
NP-000246	23.078	147	2	R99	CAMEL Subscription Info	F	N2	CAMEL Phase 3	3.4.0
NP-000270	24.008	195	2	R99	MS behavior if RAU attempt counter is greater than or equal to 5	F	N1	GSM - UMTS	3.3.1
NP-000287	29.002	146		R99	New user error 'target cell outside group call area' in MAP Prepare Handover message	F	N4	ASCI	3.4.0
NP-000229	24.022	004		R99	RLP timer T4 in UMTS	F	N3	TEI	3.2.0
NP-000223	29.007	015		R99	Handover between 3G MSCs	F	N3	CS Bearers in	3.4.0

TDoc	Spec	CR	Rev	Phase	Subject	Cat	Source	Work item	to Ver.
NP-000289	23.008	026	2	R99	Editorial changes on 23.008 draft version 3.2.0	F	N4	CAMEL Phase 3	3.3.0
NP-000248	23.078	174	1	R99	Editorial corrections in the clause 10	D	N2	CAMEL Phase 3	3.4.0
NP-000269	04.08	A1029	1	R97	Clarification on local and foreign TLLI management	F	N1	GPRS	6.10.0
NP-000290	29.002	117	1	R99	Using DSD to delete CCBS-B from the subscriber	A	N4	CCBS	3.4.0
NP-000376	29.060	114		R99	Clarification of the Cause of Create PDP Context Response	F	N4	GTP enhancem	3.4.0
NP-000271	24.008	196		R99	Applicability of CS Multimedia to GSM	C	N1	Multimedia	3.3.1
NP-000268	04.08	A1015		R98	Alignment on ISDN BC Coding	A	N1	TEI	7.7.0
NP-000223	29.007	019		R99	Clarification for 56 and 64 kbit/s	F	N3	CS Bearers in	3.4.0
NP-000289	29.002	122	2	R99	Proposed information flow on NSDC	C	N4	CAMEL Phase 3	3.4.0
NP-000291	23.082	006		R99	Indication in PRN of support of Long FTNs	F	N4	CF enhancem	3.2.0
NP-000294	29.002	121		R99	Correction of introduction of additional service parameters for inter-system handover	F	N4	Handover	3.4.0
NP-000291	29.002	118	1	R99	Indication in PRN of support of Long FTNs	F	N4	CF enhancem	3.4.0
NP-000240	03.78	A157	2	R97	Usage of Announcement Suppression Indicator	F	N2	CAMEL Phase 2	6.6.0
NP-000318	09.02	A298	1	R97	Use of NAM parameter with MAP-INSERT-SUBSCRIBER-DATA service between HLR	F	N4	GPRS	6.7.0
NP-000229	29.007	018		R99	Clarification of the VMSC behavior in case of interworking	C	N3	TEI	3.4.0
NP-000371	09.02	A302		R97	Correction to the description of MAP-MO-Forward-Short-Message service	A	N4	TEI	6.7.0
NP-000318	09.02	A296		R97	Clarification for ReportSM-DeliveryStatus operation	F	N4	GPRS	6.7.0
NP-000291	23.079	014		R99	Indication in PRN of support of Long FTNs	F	N4	CF enhancem	3.2.0
NP-000269	24.008	210		R99	IEI value of the 'Tear down indicator' IE	F	N1	GPRS	3.3.1
NP-000371	03.03	A050		R97	Use of 3 Digit MNCs in GTP for Release 97	F	N4	TEI	6.5.0
NP-000376	29.060	099	1	R99	Addition of response code Delete PDP Context Response	F	N4	GTP enhancem	3.4.0
NP-000268	04.08	A1017		R97	Alignment on ISDN BC Coding	A	N1	TEI	6.10.0
NP-000243	23.078	148	1	R99	Usage of GPRS Reference Number	C	N2	CAMEL Phase 3	3.4.0
NP-000250	29.078	098		R99	Addition of Location Information to Initial DP GPRS	F	N2	CAMEL Phase 3	3.3.0
NP-00272	24.008	187	1	R99	Additional SDU error rate value	F	N1	QoS	3.3.1
NP-000371	29.002	149		R99	Correction to the description of MAP-MO-Forward-Short-Message service	A	N4	TEI	3.4.0
NP-000318	29.060	102		R99	Alignment of text with tables	F	N4	GPRS	3.4.0
NP-000371	29.002	134		R99	Correction of errors in SDL for Macro Receive_Open_Ind	A	N4	TEI	3.4.0
NP-000246	23.078	156	1	R99	Correction of MM paragraph	F	N2	CAMEL Phase 3	3.4.0
NP-000376	29.060	089		R99	Condition for evaluating the sequence number fields in PDP context	F	N4	GTP enhancem	3.4.0
NP-000249	29.078	083		R99	Removal of ActivityTestSMS operation	F	N2	CAMEL Phase 3	3.3.0

TDoc	Spec	CR	Rev	Phase	Subject	Cat	Source	Work item	to Ver.
NP-000248	23.078	172		R99	Editorial corrections in the clause 8	D	N2	CAMEL Phase 3	3.4.0
NP-000250	29.078	097	1	R99	two changes in the class	F	N2	CAMEL Phase 3	3.3.0
NP-000269	24.008	208	3	R99	Change of the GMM Ready Timer behavior	F	N1	GPRS	3.3.1
NP-000251	29.078	092	2	R99	Module IMPORT references	D	N2	CAMEL Phase 3	3.3.0
NP-000251	29.078	066		R99	Correction to Normative References	F	N2	CAMEL Phase 3	3.3.0
NP-000246	23.078	153		R99	Alignment of the EventSpecificInformationBCSM Stage 2&3	F	N2	CAMEL Phase 3	3.4.0
NP-000227	27.001	018		R99	Application of multi media in GSM	F	N3	Multimedia	3.4.0
NP-000223	23.910	001		R99	Deletion of T 56 kbit/s for UDI	F	N3	CS Bearers in	3.0.0
NP-000296	09.02	A295	1	R98	Indication of unsupported position method	F	N4	LCS	7.4.0
NP-000270	23.009	010		R99	Clean-up of 3G_MSC-B_HO SDLs	C	N1	GSM/UMTS	3.2.1
NP-000326	24.010	001		R99	Alignment of SS protocol with current MM/GMM integrity protection rules	C	N4	Security	3.0.0
NP-000247	23.078	163	1	R99	Specification of segmented GPRS Dialogues	F	N2	CAMEL Phase 3	3.4.0
NP-000289	23.018	045	1	R99	Correction of CAMEL Incoming Call Handling	D	N4	CAMEL Phase 3	3.4.0
NP-000318	29.002	141		R99	Clarification for ReportSM-DeliveryStatus operation	A	N4	GPRS	3.4.0
NP-000376	29.060	116		R99	Clarification on the TEID for Signalling of the PDU Notification Reject Request	F	N4	GTP enhancem	3.4.0
NP-000376	29.060	109		R99	the N-PDU number in GTP-C	F	N4	GTP enhancem	3.4.0
NP-000273	24.008	137	1	R99	MS behavior when detecting a 'bad' network from an authentication challenge	C	N1	Security	3.3.1
NP-000247	23.078	164		R99	Release of PDP context during Waiting for Instructions	F	N2	CAMEL Phase 3	3.4.0
NP-000223	27.001	020		R99	WAIUR in case of HO between UMTS and GSM	F	N3	CS Bearers in	3.4.0
NP-000370	29.060	101	1	R99	Addition of charging characteristics per PDP context	B	N4	TEI	3.4.0
NP-000370	23.008	017		R99	Addition of subscribed charging characteristics information	B	N4	TEI	3.3.0
NP-000245	23.078	125	2	R99	Correction of Call Gapping	F	N2	CAMEL Phase 3	3.4.0
NP-000229	29.007	017		R99	Fax	F	N3	TEI	3.4.0
NP-000250	29.078	089		R99	Corrections to Common CAP types	F	N2	CAMEL Phase 3	3.3.0
NP-000273	24.008	216	2	R99	Correction of the MM Authentication procedure	F	N1	Security	3.3.1
NP-000249	29.078	076	1	R99	Correction of CAP Object Identifiers	F	N2	CAMEL Phase 3	3.3.0
NP-000294	29.002	130		R99	Version 3 Tags for handover messages for R99	F	N4	Handover	3.4.0
NP-000245	23.078	123	1	R99	Correction of incoming call handling	F	N2	CAMEL Phase 3	3.4.0
NP-000376	29.060	097	1	R99	Clarification on the use of TEID in the GTP-C header	F	N4	GTP enhancem	3.4.0
NP-000227	29.007	021		R99	33.6 kbit/s for multimedia	F	N3	Multimedia	3.4.0
NP-000223	27.001	017		R99	Adding the value of GBR of NT services	F	N3	CS Bearers in	3.4.0

TDoc	Spec	CR	Rev	Phase	Subject	Cat	Source	Work item	to Ver.
NP-000296	29.002	125		R99	Clarification to GMLC List definition	A	N4	LCS	3.4.0
NP-000287	29.002	145		R99	Addition of state attributes in Forward group call signalling	F	N4	ASCI	3.4.0
NP-000376	29.060	100	1	R99	Introduction of a different port number for GTP-C and GTP-U	F	N4	GTP enhancem	3.4.0
NP-000368	24.008	218	3	R99	Addition of "Cause of No CLI" IE in SETUP message	B	N1	TEI	3.3.1
NP-000223	29.007	016		R99	Deletion of lower user rates in UMTS	F	N3	CS Bearers in	3.4.0
NP-000299	29.060	094	1	R99	QoS Profile IE modification	F	N4	QoS enhancem	3.4.0
NP-000223	23.910	003		R99	Adding the value of GBR of NT services	F	N3	CS Bearers in	3.0.0
NP-000245	23.078	130	1	R99	Remove of SII2 frw CCBS treatment ind	F	N2	CAMEL Phase 3	3.4.0
NP-000278	23.009	002	4	R99	CR to 23.009 on Handover scenario for Multicall	B	N1	Multicall	3.2.1
NP-000273	24.008	213	1	R99	Alignment of CC and SM protocols with current MM/GMM integrity protection rules	C	N1	Security	3.3.1
NP-000247	23.078	168		R99	Reference to 3G TS 23.088	F	N2	CAMEL Phase 3	3.4.0
NP-000251	29.078	067	1	R99	Alignment of PDP address according to [29.060]	F	N2	CAMEL Phase 3	3.3.0
NP-000273	24.008	207	1	R99	Integrity checking of MM/GMM messages and integrity protection during emergency call	F	N1	Security	3.3.1
NP-000371	09.02	A288		Ph2	Correction of version handling at dialogue establishment	F	N4	TEI	4.18.0
NP-000296	04.30	A002		R98	Correction of MO-LR procedure for LCS	F	N4	LCS	7.1.0
NP-000270	24.008	194	1	R99	Clarifications on GSM - UMTS interoperability	F	N1	GSM/ UMTS	3.3.1
NP-000371	09.60	A085		R97	Use of 3 Digit MNCs in GTP for R'97	F	N4	TEI	6.7.0
NP-000273	24.011	006	1	R99	Alignment of SMS protocol with current MM/GMM integrity protection rules	C	N1	Security	3.2.0
NP-000269	24.007	014	2	R99	Change of the GMM Ready Timer behavior	F	N1	GPRS	3.3.1
NP-000289	29.002	127	1	R99	Optionally of parameters in d-csi and in sms-csi	F	N4	CAMEL Phase 3	3.4.0
NP-000290	09.02	A287	1	R98	Using DSD to delete CCBS-B from the subscriber	A	N4	CCBS	7.4.0
NP-000249	29.078	084	1	R99	PDPid in the Entity Released GPRS operation	F	N2	CAMEL Phase 3	3.3.0
NP-000376	29.060	098		R99	Add APN IE for PDU Notification Reject Request message	F	N4	GTP enhancem	3.4.0
NP-000376	29.060	093	2	R99	Clarification on the TEID handling	F	N4	GTP enhancem	3.4.0
NP-000223	23.910	004		R99	Indication of discontinuous transfer for NT data	C	N3	CS Bearers in	3.0.0
NP-000327	29.002	148	4	R00	Changes to the MAP protocol machine for secure MAP transport	B	N4	Security	3.5.0
NP-000295	03.03	A042	1	Ph2	Editorial Modification of section 6.2.2	D	N4	IMEI Security	4.10.0
NP-000297	29.002	143		R99	Editorial correction to MSC-A handover SDLs	D	N4	Multicall	3.4.0
NP-000296	23.007	005		R99	Clarifications on GSM vs. UMTS specific parts	F	N4	LCS	3.3.0
NP-000246	23.078	159	1	R99	PDPid in the EntityReleasedGPRS operation	F	N2	CAMEL Phase 3	3.4.0
NP-000371	29.002	133	1	R99	Various corrections and/or cleanup to 29.002	F	N4	TEI	3.4.0

TDoc	Spec	CR	Rev	Phase	Subject	Cat	Source	Work item	to Ver.
NP-000243	23.078	140		R99	Disallowing Compound Basic Service group codes for conditional triggering	C	N2	CAMEL Phase 3	3.4.0
NP-000246	23.078	157		R99	Editorial correction of the GPRS_activate_PDP_context SDL	F	N2	CAMEL Phase 3	3.4.0
NP-000229	27.001	021		R99	Adaptations for UMTS	C	N3	TEI	3.4.0
NP-000289	29.002	124	3	R99	CAMEL Subscription Info	F	N4	CAMEL Phase 3	3.4.0
NP-000297	23.135	001	1	R99	Cleanup and corrections for Multicall Stage 2	F	N4	Multicall	3.0.0
NP-000247	23.078	165	1	R99	Reset Timer GPRS	F	N2	CAMEL Phase 3	3.4.0
NP-000251	29.078	072		R99	Maximum length of CAMEL call result	F	N2	CAMEL Phase 3	3.3.0
NP-000248	23.078	175	1	R99	Editorial corrections in the clause 11	D	N2	CAMEL Phase 3	3.4.0
NP-000376	29.060	113		R99	Missing IEs in GTP-C Error Indication	F	N4	GTP enhancem	3.4.0
NP-000223	23.910	007		R99	Alignment with 29.007	F	N3	CS Bearers in	3.0.0
NP-000318	29.060	092	1	R99	Clean up for 29.060	F	N4	GPRS	3.4.0
NP-000368	24.008	191		R99	References and editorial corrections to 24.008	F	N1	TEI	3.3.1
NP-000371	09.02	A289		R96	Correction of version handling at dialogue establishment	A	N4	TEI	5.14.1
NP-000247	23.078	180	1	R99	Addition of Location Information to Initial DP GPRS	F	N2	CAMEL Phase 3	3.4.0
NP-000270	24.007	016		R99	Services provided by the Radio Resource Management entity	C	N1	GSM-UMTS	3.3.1
NP-000269	24.008	222	1	R99	Clarification on local and foreign TLLI management	A	N1	GPRS	3.3.1
NP-000270	23.009	009		R99	Clean-up of 3G_MSC-A_HO SDLs	C	N1	GSM/UMTS	3.2.1
NP-000242	09.78	A075	2	R97	Clarification of encoding of CollectedDigits	F	N2	CAMEL Phase 2	6.4.0
NP-000371	09.02	A303		R98	Correction to the description of MAP-MO-Forward-Short-Message service	A	N4	TEI	7.4.0
NP-000370	29.002	135	1	R99	Addition of charging characteristics per PDP context	B	N4	TEI	3.4.0
NP-000248	23.078	171	1	R99	Editorial corrections in the clause 7	D	N2	CAMEL Phase 3	3.4.0
NP-000245	23.078	062	5	R99	Correction of SDL and IF for Dialled Services in Call Forwarding case	F	N2	CAMEL Phase 3	3.4.0
NP-000376	29.060	106		R99	Removal of Connection oriented paths	F	N4	GTP enhancem	3.4.0
NP-000269	24.008	193	1	R99	MODIFY PDP CONTEXT REJECT -message definition	F	N1	GPRS	3.3.1
NP-000249	29.078	085	1	R99	Specification of segmented GPRS Dialogues	F	N2	CAMEL Phase 3	3.3.0
NP-000241	03.78	A155	2	R97	gsmSSF DP handling in CF	F	N2	CAMEL Phase 2	6.6.0
NP-000245	23.078	133	2	R99	Improvements on ATM/ATSI/NSDC	F	N2	CAMEL Phase 3	3.4.0
NP-000280	29.078	087	3	R99	Introduction of GPRS reference in TCAP dialogue portion	C	N2	CAMEL Phase 3	3.3.0
NP-000270	24.008	215		R99	Correction of references in protocol error handling for SM	F	N1	GSM/ UMTS Intw	3.3.1
NP-000246	23.078	150	2	R99	Correction on Quality of Service (GPRS)	F	N2	CAMEL Phase 3	3.4.0
NP-000250	29.078	091	1	R99	Corrections to CAP for GPRS	F	N2	CAMEL Phase 3	3.3.0

TDoc	Spec	CR	Rev	Phase	Subject	Cat	Source	Work item	to Ver.
NP-000371	29.002	132		R99	Correction of version handling at dialogue establishment	A	N4	TEI	3.4.0
NP-000268	04.08	A1019		R96	Alignment on ISDN BC Coding	A	N1	TEI	5.16.0
NP-000240	03.78	A158	2	R98	Usage of Announcement Suppression Indicator	A	N2	CAMEL Phase 2	7.3.0
NP-000318	29.060	119		R99	Clarification on the use of SGSN address at PDU notification procedure	F	N4	GPRS	3.4.0
NP-000240	23.078	177	2	R99	Usage of Announcement Suppression Indicator	A	N2	CAMEL Phase 2	3.4.0
NP-000296	24.030	002		R99	Correction of MO-LR procedure for LCS	A	N4	LCS	3.0.0
NP-000318	09.02	A299	1	R98	Use of NAM parameter with MAP-INSERT-SUBSCRIBER-DATA service between HLR	A	N4	GPRS	7.4.0
NP-000297	23.066	019	2	R99	CR 23.018-052 on North American Service Provider Number Portability impacts for	B	N4	MNP	3.2.0
NP-000295	03.03	A045	1	R98	Editorial Modification of section 6.2.2	D	N4	IMEI Security	7.4.0
NP-000371	09.02	A292		R97	Correction of errors in SDL for Macro Receive_Open_Ind	F	N4	TEI	6.7.0
NP-000272	24.008	188		R99	TFT IE length and editorials	F	N1	QoS	3.3.1
NP-000371	29.060	086	1	R99	Encoding of spare IMSI Digits	A	N4	TEI	3.4.0
NP-000368	24.008	176	2	R99	Clarification of reference to Q.931 for LLC IE	C	N1	TEI	3.3.1
NP-000371	24.081	001		R99	Cause of no CLI indication	F	N4	TEI	3.0.0
NP-000295	23.003	021	1	R99	Editorial Modification of section 6.2.2	D	N4	IMEI Security	3.4.0
NP-000270	23.122	003	5	R99	Modification of PLMN Selection Procedures to support UMTS+COMPACT Network	F	N1	GSM / UMTS	3.2.0
NP-000376	29.060	090	1	R99	Target RNC Information	F	N4	GTP enhancem	3.4.0
NP-000371	09.02	A290		R97	Correction of version handling at dialogue establishment	A	N4	TEI	6.7.0
NP-000299	29.002	120	1	R99	QoS-Subscribed field enhancements	F	N4	QoS enhancem	3.4.0
NP-000247	23.078	162	2	R99	Various corrections and updates for 23.078	F	N2	CAMEL Phase 3	3.4.0
NP-000269	24.008	209		R99	Network behaviour, abnormal cases detach	F	N1	GPRS	3.3.1
NP-000266	24.008	204		R99	Removal of P-TMSI signature in Service Request message	F	N1	GSM/UMTS	3.3.1
NP-000272	24.008	212		R99	Reserve one bit in PFI	F	N1	QoS	3.3.1
NP-000376	29.060	087	1	R99	Reliable delivery of signalling messages	F	N4	GTP enhancem	3.4.0
NP-000246	23.078	154		R99	Clean-up the Monitoring state User Interaction	F	N2	CAMEL Phase 3	3.4.0
NP-000370	23.008	029		R99	Addition of charging characteristics per PDP context	B	N4	TEI	3.3.0
NP-000248	23.078	161	1	R99	Renaming "FSM" to "State Model" in GPRS	D	N2	CAMEL Phase 3	3.4.0
NP-000249	29.078	079		R99	Clean-up the Monitoring state User Interaction	F	N2	CAMEL Phase 3	3.3.0
NP-000326	29.002	138		R99	Clarification of SAI-ack segmentation procedure	F	N4	Security	3.4.0
NP-000250	29.078	094	1	R99	General enhancements of GPRS Event Specific Information	F	N2	CAMEL Phase 3	3.3.0
NP-000229	23.910	008		R99	Clarification of IuUP PDU Type for NT data	F	N3	TEI	3.0.0

TDoc	Spec	CR	Rev	Phase	Subject	Cat	Source	Work item	to Ver.
NP-000270	24.008	220	1	R99	Modification of QoS to support max 0kbps	F	N1	GSM/UMTS	3.3.1
NP-000248	23.078	170	1	R99	Editorial corrections in the clause 6	D	N2	CAMEL Phase 3	3.4.0
NP-000251	29.078	069	4	R99	Various corrections and updates for 29.078	F	N2	CAMEL Phase 3	3.3.0
NP-000229	27.003	005		R99	Adaptations for UMTS	C	N3	TEI	3.3.0
NP-000376	29.060	096		R99	Restart counter in Echo Response	F	N4	GTP enhancem	3.4.0
NP-000241	23.078	077	2	R99	gsmSSF DP handling in CF	A	N2	CAMEL Phase 2	3.4.0
NP-000273	24.008	217	1	R99	Correction of the GMM Authentication and ciphering procedure	F	N1	Security	3.3.1
NP-000229	27.002	004		R99	Adaptations for UMTS	C	N3	TEI	3.3.0
NP-000371	09.02	A301		R96	Correction to the description of MAP-MO-Forward-Short-Message service	A	N4	TEI	5.14.1
NP-000376	29.060	117	2	R99	Clarification of the conditional information elements	F	N4	GTP enhancem	3.4.0
NP-000245	23.078	141		R99	Correction on chapter 10.	F	N2	CAMEL Phase 3	3.4.0
NP-000370	23.003	019		R99	Missing UTRAN identifiers	B	N4	TEI	3.4.0
NP-000371	23.081	002		R99	Enhanced handling of presentation indicators for CLIP	F	N4	TEI	3.0.1
NP-000318	29.002	144	1	R99	Use of NAM paramter with MAP-INSERT-SUBSCRIBER-DATA service between HLR	A	N4	GPRS	3.4.0
NP-000242	29.078	096	2	R99	Clarification of encoding of CollectedDigits	A	N2	CAMEL Phase 2	3.3.0
NP-000296	29.002	139	1	R99	Indication of unsupported position method	A	N4	LCS	3.4.0
NP-000229	29.007	020		R99	ISDN TA function in case of bit transparent 56 kbit/s (RDI) and	F	N3	TEI	3.4.0
NP-000370	23.016	013	1	R99	Addition of information related to charging	B	N4	TEI	3.4.0
NP-000245	23.078	138	1	R99	Reception of Int_QoS_Change in the gprsSSF in gsmSSF SDL	F	N2	CAMEL Phase 3	3.4.0
NP-000291	23.082	007	1	R99	Interworking cases for Long Forwarded-to Numbers	C	N4	CF enhancem	3.2.0
NP-000371	29.060	088		R99	Possible cause codes for Relocation Cancel Response	F	N4	TEI	3.4.0
NP-000228	27.001	019		R99	Removal of packet access service	F	N3	R99 Service	3.4.0
NP-000223	27.001	016		R99	Residual bit error ratio in Transparent Data	F	N3	CS Bearers in	3.4.0
NP-000371	09.02	A293		R98	Correction of errors in SDL for Macro Receive_Open_Ind	A	N4	TEI	7.4.0
NP-000229	23.910	005		R99	Clarification of IuUP in Transparent	F	N3	TEI	3.0.0
NP-000296	23.008	027		R99	Clarifications on GSM vs. UMTS specific parts	F	N4	LCS	3.3.0
NP-000223	23.910	002		R99	Residual bit error ratio in Transparent Data	F	N3	CS Bearers in	3.0.0
NP-000270	24.008	189	1	R99	DRX value 0000 clarification and R97 compatibility issue	F	N1	GSM/ UMTS	3.3.1
NP-000297	29.002	142	1	R99	Addition of a parameter in the subsequent Handover from UMTS to GSM with Multicall	C	N4	Multicall	3.4.0
NP-000270	24.008	184	1	R99	Introduction of 3G MS capabilities in MS Classmark 3 (Introduction of 3G MS	C	N1	GSM-UMTS	3.3.1
NP-000376	29.060	108		R99	The use of the Sequence number in GTP-C	F	N4	GTP enhancem	3.4.0

TDoc	Spec	CR	Rev	Phase	Subject	Cat	Source	Work item	to Ver.
NP-000270	24.008	221	2	R99	Recovery from PDP context inconsistency	F	N1	GSM/ UMTS	3.3.1
NP-000246	23.078	145	1	R99	Invocation of O-BCSM in case of GSM call forwarding	F	N2	CAMEL Phase 3	3.4.0
NP-000318	09.02	A297		R98	Clarification for ReportSM-DeliveryStatus operation	A	N4	GPRS	7.4.0
NP-000370	29.060	085		R99	Mandatory inclusion of IMSI in SGSN Context Response if P-TMSI Signature	C	N4	TEI	3.4.0
NP-000270	24.008	203		R99	Editorial corrections to MM and GMM in 24.008	F	N1	GSM/UMT S	3.3.1
NP-000288	24.080	004		R99	Correction of definition of Deflected-to number	A	N4	Call Deflection	3.2.0
NP-000250	29.078	090		R99	Corrections to CAP for circuit switched calls	F	N2	CAMEL Phase 3	3.3.0
NP-000270	24.007	012		R99	Remove GRR primitive descriptions and make reference to other document	F	N1	GSM/ UMTS	3.3.1
NP-000223	27.001	022		R99	Indication of discontinuous transfer for NT data	C	N3	CS Bearers in	3.4.0
NP-000269	24.008	214		R99	Modification of MS Classmark 3 and modification of MS RA Capabilities, for DTM	C	N1	GPRS	3.3.1
NP-000249	29.078	073		R99	removal of the SII2 Connected Number TreatmentIndicatorDefault Value	F	N2	CAMEL Phase 3	3.3.0
NP-000292	29.060	110	1	R99	Editorial modifications	D	N4	GTP enhancem	3.4.0
NP-000279	24.008	201	1	R99	COMPACT Mobile Station Interference Measurements Capability	F	N1	EDGE	3.3.1
NP-000242	09.78	A076	2	R98	Clarification of encoding of CollectedDigits	A	N2	CAMEL Phase 2	7.0.0
NP-000376	29.060	084		R99	16-bit PDCP sequence numbers in GTP header	F	N4	GTP enhancem	3.4.0
NP-000244	23.078	146	2	R99	Clarification on TDP Analyzedinfoo Criteria checks	F	N2	CAMEL Phase 3	3.4.0
NP-000249	29.078	081	2	R99	GPRS AC/ACR procedure description	F	N2	CAMEL Phase 3	3.3.0
NP-000371	09.60	A084	1	R98	Encoding of spare IMSI Digits	F	N4	TEI	7.4.0
NP-000289	23.012	006		R99	Introduction of Mobility Management event notification into 23.012 procedures	F	N4	CAMEL Phase 3	3.2.0
NP-000241	03.78	A156	2	R98	gsmSSF DP handling in CF	A	N2	CAMEL Phase 2	7.3.0
NP-000249	29.078	078		R99	Correction on Quality of Service (GPRS)	F	N2	CAMEL Phase 3	3.3.0
NP-000268	24.008	185		R99	Alignment on ISDN BC Coding	F	N1	TEI	3.3.1
NP-000376	29.060	091	1	R99	Change of the length of TI	F	N4	GTP enhancem	3.4.0
NP-000251	29.078	071		R99	Maximum length of cause parameter	F	N2	CAMEL Phase 3	3.3.0
NP-000297	24.135	001	2	R99	Clarifications of the Multicall procedures	F	N4	Multicall	3.0.0
NP-000249	29.078	077	1	R99	Correction of GPRS operation Procedures	F	N2	CAMEL Phase 3	3.3.0
NP-000370	23.016	015		R99	Addition of charging characteristics per PDP context	B	N4	TEI	3.4.0
NP-000290	09.02	A286	1	R97	Using DSD to delete CCBS-B from the subscriber	F	N4	CCBS	6.7.0
NP-000270	24.007	017		R99	Updating SM for R99	F	N1	GSM/ UMTS	3.3.1
NP-000248	23.078	173	1	R99	Editorial corrections in the clause 9	D	N2	CAMEL Phase 3	3.4.0
NP-000243	23.078	142	1	R99	Proposed information flow on Notify subscriber Data Change	C	N2	CAMEL Phase 3	3.4.0

TDoc	Spec	CR	Rev	Phase	Subject	Cat	Source	Work item	to Ver.
NP-000247	23.078	167		R99	gprsSSF definition	F	N2	CAMEL Phase 3	3.4.0
NP-000373	23.003	022		R99	IMEI Formats and Encoding (extract from 22.016 Annex A)	F	N4	TEI	3.4.0
NP-000246	23.078	158	1	R99	Removal of ActivityTestSMS operation	F	N2	CAMEL Phase 3	3.4.0
NP-000296	23.016	014		R99	Clarifications on GSM vs. UMTS specific parts	F	N4	LCS	3.3.0
NP-000251	29.078	062		R99	Clarification of collectedDigits parameter	F	N2	CAMEL Phase 3	3.3.0
NP-000269	24.007	015		R99	Protocol Discriminator to route packet data sent by a DTM mobile from BSC to PCU	C	N1	GPRS	3.3.1
NP-000292	29.060	111	1	R99	Editorial modifications concerning GTP-U and GTP-C	D	N4	GTP enhancem	3.4.0
NP-000289	23.018	051	4	R99	Correction of Active Retrieval of Location Information procedure	F	N4	CAMEL Phase 3	3.4.0
NP-000270	24.008	190	1	R99	Compatibility issue due to deletion of SM cause #35	F	N1	GSM/ UMTS	3.3.1
NP-000371	09.02	A291		R98	Correction of version handling at dialogue establishment	A	N4	TEI	7.4.0
NP-000267	24.008	211	1	R99	Addition of PFC Feature and Extended GEA in MS Network Capability IE	F	N1	QoS	3.3.1
NP-000251	29.078	068		R99	Detailed specification of the Control Relationship for the ApplyChargingGPRS	F	N2	CAMEL Phase 3	3.3.0
NP-000250	29.078	088		R99	Corrections to MO-SMS	F	N2	CAMEL Phase 3	3.3.0
NP-000223	27.001	015		R99	Missing Asymmetry preference indication in Table B. 5.a	F	N3	CS Bearers in	3.4.0
NP-000247	23.078	176	2	R99	Clarifications on GPRS Concepts	F	N2	CAMEL Phase 3	3.4.0
NP-000296	24.030	001	1	R99	Clarifications on GSM vs. UMTS specific parts	F	N4	LCS	3.0.0
NP-000376	29.060	112		R99	Introducing Supported Extension Headers Notification to GTP-U	F	N4	GTP enhancem	3.4.0
NP-000248	23.078	169		R99	Editorial corrections in the clause 5	D	N2	CAMEL Phase 3	3.4.0
NP-000245	23.078	132		R99	Correction of the CWA SII2 description	F	N2	CAMEL Phase 3	3.4.0
NP-000251	29.078	064		R99	SII2 CCBS treatment indicator default	F	N2	CAMEL Phase 3	3.3.0
NP-000371	09.02	A300		Ph2	Correction to the description of MAP-Forward-Short-Message service	F	N4	TEI	4.18.0
NP-000295	03.03	A044	1	R97	Editorial Modification of section 6.2.2	D	N4	IMEI Security	6.5.0
NP-000249	29.078	080	1	R99	GPRS Charging ID Type Definition	F	N2	CAMEL Phase 3	3.3.0
NP-000288	04.80	A017		R98	Correction of definition of Deflected-to number	F	N4	Call Deflection	7.2.0
NP-000250	29.078	086		R99	Reset Timer GPRS	F	N2	CAMEL Phase 3	3.3.0
NP-000251	29.078	065		R99	Remove of SII2 frw CCBS treatment ind	F	N2	CAMEL Phase 3	3.3.0
NP-000269	04.08	A1027	1	R98	Clarification on local and foreign TLLI management	A	N1	GPRS	7.7.0
NP-000247	23.078	166		R99	Correction: Enhancement of the SDL for ATM	F	N2	CAMEL Phase 3	3.4.0
NP-000382	27.001	023	1	R00	Indication of WAIUR 14.4kbit/s in case of UMTS FAX	F	N3	Facsimile	3.4.0

A.5 CRs Not Approved at TSG_N#8

Tdoc	Status	Spec	CR	Rev	Phase	Subject	Cat	Source	Workitem
NP-000375	postponed	29.060	105		R99	Race Conditions Avoidance	F	N4	GTP
NP-000265	postponed	24.008	206		R99	Removal of Service Accept message	F	N1	GSM-UMTS Interworking
NP-000303	rejected	04.08	A1031	1	R98	Support of GEA/2 Encryption Algorithm	F	N1	Security
NP-000369	postponed	03.03	A049		R98	Hexa IMEI	A	N4	TEI
NP-000369	postponed	03.03	A048		R97	Hexa IMEI	A	N4	TEI
NP-000369	postponed	03.03	A047		2	Hexa IMEI	C	N4	TEI
NP-000367	postponed	24.008	192	1	R99	IMEI hex coding	C	N1	TEI
NP-000369	postponed	03.03	A046		R96	Hexa IMEI	A	N4	TEI
NP-000225	withdrawn	27.001	023		R99	Indication of WAIUR 14.4kbit/s in case of UMTS FAX	F	N3	Facsimile
NP-000369	postponed	23.003	020	3	R99	Hexa IMEI	A	N4	TEI
NP-000391	withdrawn	24.008	266		R99	Removal of Service Accept message	F	Ericsson	GSM-UMTS Interworking
NP-000392	rejected	04.08	A1033		R97	Optional support of GEA/2 Encryption Algorithm	F	Ericsson	Security
NP-000320	withdrawn	23.078	183		R99	Editorial modifications	D	Siemens	CAMEL Ph.3
NP-000321	withdrawn	29.002	150		R99	D-CSI alignment with 23.078	F	Siemens	CAMEL Ph. 3
NP-000319	withdrawn	23.078	182		R99	Improved SDLs in clauses 6-11	D	Siemens	CAMEL Ph. 3

ANNEX B.   TSG_N#8 Participants List

Name	e-mail	Telephone	Fax	Represented Organisation	Status
Mr. Peter Adams	peter.m.adams@bt.com	+44 1 473 227 684	+44 1 473 227 884	BT	3GPPMEMBER - ETSI
Ms. Ban Al –Bakri	ban.albakri@etsi.fr	+33 4 92 94 43 09	+33 4 92 38 52 52	ETSI	3GPPORG_REP - ETSI
Mr. Andrew Allen	caa019@email.mot.com	+1 847 435 0016	+1 847 632 6999	Motorola Inc.	3GPPMEMBER - T1
Mr. Niels Peter Skov Andersen	npa001@email.mot.com	+45 43 48 81 10	+45 43 48 82 76	MOTOROLA A/S	3GPPMEMBER - ETSI
Mr. Ansgar Bergmann	ansgar.bergmann@etsi.fr	+33 4 92 94 43 22	+33 4 92 38 52 22	ETSI	3GPPORG_REP - ETSI
Mr. Ermanno Berruto	ermanno.berruto@cselt.it	+39 011 22 85038	+39 011 22 85582	TELECOM ITALIA S.p.A.	3GPPMEMBER - ETSI
Mr. Nigel. H Berry	nhberry@lucent.com	+44 1793 88 3245	+44 1793 88 3815	Lucent Technologies N. S. UK	3GPPMEMBER - ETSI
Mr. Olavi Blomberg	olavi.blomberg@sonera.com	+358 2040 2576	+358 2040 3873	SONERA Corporation	3GPPMEMBER - ETSI
Mr. David Boswarthick	david.boswarthick@etsi.fr	+33 4 92 94 42 78	+33 4 92 38 52 49	ETSI	3GPPORG_REP - ETSI
Mr. Ed Campbell	ed_campbell@npc.3com.com	+1 847 342 6769	+1 847 342 6350	3COM	3GPPMEMBER - ETSI
Mr. Chi Cheung Chan	maurice_chan@hksmartone.com	+852 25976568	+852 28278336	BT	3GPPMEMBER - ETSI
Mr. Colin Chandler	colinc@qualcomm.com	+33 4 92 38 82 20	+33 4 92 38 82 30	QUALCOMM EUROPE S.A.R.L.	3GPPMEMBER - ETSI
Mr. Sunil Chotai	sunil.chotai@bt.com	+44 1 473 605603	+44 1 473 623794	BT	3GPPMEMBER - ETSI
Mr. WonChul Chung	wcchung@kt.co.kr	+82 42 870 8346	+82 42 870 8338	KOREA TELECOM CORP.	3GPPMEMBER - TTA
Mr. Stephen Corkovic	stjepan.corkovic@vipnet.hr	+385 1 4691 445	+385 1 4691 419	VIP-NET GSM d.o.o	3GPPMEMBER - ETSI
Mr. Harald Dettner	harald.dettner@icn.siemens.de	+49 6621 169 169	+49 6621 169 122	SIEMENS AG	3GPPMEMBER - ETSI
Mr. Ian Doig	IANDOIG1@email.mot.com	+33 4 92 94	+33 4 92	MOTOROLA S.A.	3GPPMEMBER - ETSI
Mr. Peter Donat	peter.donat@siemens.at	+43 5 1707 22 300	+43 5 1707 54450	FEEI	3GPPMEMBER - ETSI
Mr. Jan Ellsberger	jan.ellsberger@era.ericsson.se	+46 8 508 77965	+46 8 404 5769	ERICSSON L.M.	3GPPMEMBER - ETSI
Mr. Jie Feng	jie_feng@3com.com	+1 847 342 6247	+1 847 222 3463	3COM	3GPPMEMBER - ETSI
Mr. John B Fenn	johnbfenn@aol.com	+44 1784 428 684	+44 1784 428 629	SAMSUNG Electronics	3GPPMEMBER - ETSI
Mr. Philip Gilchrist	apc001c@email.mot.com	+49 17 142 77 653	+49 69 55 13 47	MOTOROLA Ltd	3GPPMEMBER - ETSI
Mr. Steffen Habermann	steffen.habermann@t-mobil.de	+49 228 936 3324	+49 228 936 3329	Deutsche Telekom MobilNet	3GPPMEMBER - ETSI
Mr. Eric Hamel	eric.hamel@rd.francetelecom.fr	+33 1 45 29 68 63	+33 1 45 29 43 99	France Telecom	3GPPMEMBER - ETSI
Mr. Bryan Hay	bryan.hay@one2one.co.uk	+44 20 82 142 078	+44 7932 231 515	One 2 One Personal Comm.	3GPPMEMBER - ETSI
Mr. Stephen Hayes	EUSSRH@AM1.ERICSSON.SE	+1 972 583 5773	+1 972 644 3036	Ericsson Inc.	3GPPMEMBER - T1
Ms. Monica Hellman	monica.hellman@etsi.fr	+33 4 92 94 42 31	+33 4 93 65 28 17	ETSI	3GPPORG_REP - ETSI
Mr. Hannu Hietalahti	hannu.hietalahti@nokia.com	+358 40 502 1724	+358 10 505 7222	NOKIA Corporation	3GPPMEMBER - ETSI
Mr. Tomas Holmström	tomas.holmstrom@ecs.ericsson.se	+46 46 193 861	+46 46 194 702	ERICSSON L.M.	3GPPMEMBER - ETSI
Mr. Yun-Chao Hu	yun-chao.hu@era.ericsson.se	+46 8 508 78153	+46 8 508 77300	ERICSSON L.M.	3GPPMEMBER - ETSI
Mrs. Karen Hughes	karen.hughes@etsi.fr	+33 4 92 94 43 53	+33 4 92 38 49 25	ETSI	3GPPORG_REP - ETSI
Mr. Gary Jones	gary.jones@voicestream.com	+1 301 951 2524	+1 301 951 2580	VoiceStream Wireless Corp.	3GPPMEMBER - T1
Mr. Seppo Junninen	seppo.junninen@elfsa.fi	+358 10 262 4086	+358 10 262 4525	Finnet Group	3GPPMEMBER - ETSI
Mr. Mikko Kanerva	mikko.j.kanerva@nokia.com	+358 9 511 68077	+358 40 511 68080	NOKIA Corporation	3GPPMEMBER - ETSI
Mr. Norbert Klehn	norbert.klehn@icn.siemens.de	+49 30 386 290 90	+49 30 386 44255	SIEMENS AG	3GPPMEMBER - ETSI
Mr. Lucas Klostermann	lucas.klostermann@etm.111.se	+31 161 299 057	+31 161 247 742	ERICSSON L.M.	3GPPMEMBER - ETSI
Mr. Peter Kobriger	peter.kobriger@eed.ericsson.se	+49 2407 575 401	+49 2407 575 477	ERICSSON L.M.	3GPPMEMBER - ETSI
Mrs. Evelyne Le Gall	evelyne.legall@cegetel.fr	+33 1 71 08 33 04	+33 1 71 07 64 37	CEGETEL	3GPPMEMBER - ETSI
Mrs. Margaret Livingston	margaret.livingston@nokia.com	+1 972 894 5740	+1 972 894 5525	Nokia Telecomms Inc.	3GPPMEMBER - T1
Mr. Patrick Lohat	patrick.lohat@alcatel.fr	+33 1 30 77 89 23	+33 1 30 77 81 52	ALCATEL France	3GPPMEMBER - ETSI

Name	e-mail	Telephone	Fax	Represented Organisation	Status
Mr. Xuejun Lu	luxj@public.bta.net.cn	+86 10 6809 4327	+86 10 6803 4801	RITT	3GPPMEMBER - CWTS
Mr. Edgar Lycksell	Edgar.A.Lycksell@telia.se	+46 653 500 02	+46 653 500 01	TELIA AB	3GPPMEMBER - ETSI
Dr. Hashem Madadi	h.madadi@panasonic-pmdc.co.uk	+44 118 902 9304	+44 118 902 9331	ORANGE PCS LTD	3GPPMEMBER - ETSI
Mr. John M Meredith	john.meredith@etsi.fr	+33 4 92 94 42 37	+33 (0)4 92 38 52 37	ETSI	3GPPORG_REP - ETSI
Mr. Sumio Miyagawa	miyagawa@twics.com	+81 3 5423 6745	+81 3 5423 8728	Siemens K.K.	3GPPMEMBER - TTC
Dr. Atsushi Murase	murase@cet.yrp.nttdocomo.co.jp	+81 468 40 3101	+81 468 40 3732	NTT DoCoMo	3GPPMEMBER - ARIB
Mr. Hiroshi Nakamura	naka@nw.yrp.nttdocomo.co.jp	+81 468 40 3332	+81 468 40 3781	NTT DoCoMo	3GPPMEMBER - TTC
Ms. Antonella Napolitano	antonella.napolitano@cselt.it	+39 011 228 5040	+39 011 228 7056	TELECOM ITALIA S.p.A.	3GPPMEMBER - ETSI
Mr. Akishige Noda	noda@ss.ts.fujistsu.co.jp	+81 44 75 44 196	+81 44 75 44 147	Fujitsu Limited	3GPPMEMBER - TTC
Mr. Ian David Chalmers Park	ian.park@vf.vodafone.co.uk	+44 1635 673 527	+44 1635 233 562	VODAFONE AirTouch Plc	3GPPMEMBER - ETSI
Mr. Jeong-Hyun Park	jhpark@amadeus.etri.re.kr	+82 42 860 5512	+82 42 860 5471	ETRI	3GPPMEMBER - TTA
Mr. Maurice Pope	maurice.pope@etsi.fr	+33 4 92 94 42 59	+33 4 92 38 52 59	ETSI	3GPPORG_REP - ETSI
Mr. Daniel Prenatt	dprenatt@aircom.com	+1 561-792-1139	+1 407 984 2348	Airnet Communications Corp.	3GPPMEMBER - ETSI
Mr. Chang-Ho Ryoo	changho.ryoo@ekk.ericsson.se	+82 2 397 2783	+82 2 736 2765	ERICSSON KOREA	3GPPMEMBER - TTA
Mr. Gary Schlanger	g.schlanger@home.com	+1 973 736 5348		AT&T Corp.	3GPPMEMBER - T1
Mr. William Schmidt	P26792@email.mot.com	+1480 732 2988	+1480 732 4425	Motorola Inc.	3GPPMEMBER - T1
Mr. Adrian Scrase	adrian.scrase@etsi.fr	+33 4 92 94 42 54	+33 4 92 38 52 54	ETSI	3GPPORG_REP - ETSI
Mr. Franco Settimo	franco.settimo@etsi.fr	+33 4 92 94 42 38	+33 4 92 38 52 38	ETSI	3GPPORG_REP - ETSI
Mr. Iain Sharp	isharp@nortetnetworks.com	+44 1628 43 42 87	+44 1628 434 034	NORTEL NETWORKS (EUROPE)	3GPPMEMBER - ETSI
Mr. Toshiyuki Tamura	tamurato@e1sf.ncos.nec.co.jp	+81 471 85 6954	+81 471 85 6962	NEC Corporation	3GPPMEMBER - TTC
Mr. Naoki Tani	tani@nw.yrp.nttdocomo.co.jp	+81 468 40 3332	+81 468 40 3781	NTT DoCoMo	3GPPMEMBER - TTC
Mrs. Tiziana Toniatti	tiziana.toniatti@icn.siemens.it	+39 02 4399 9277	+39 02 4399 7989	Siemens ICN S.p.A.	3GPPMEMBER - ETSI
Mr. Stefan Toth	stefan.toth@erv.ericsson.se	+46 31 3446 046	+46 31 3446 033	ERICSSON L.M.	3GPPMEMBER - ETSI
Ms. Wen-Lin Tsao	wtsao@cisco.com	+1 408 527 7647		Cisco Systems Inc.	3GPPMEMBER - ETSI
Mr. Jose Antonio Ubeda	ubeda_ja@tsm.es	+34 630 003 827	+34 630 007 307	TELEFONICA de España S.A.	3GPPMEMBER - ETSI
Mr. Mauri Ukonmaanaho	mauri.ukonmaanaho@nokia.com	+81 3 5510 0964	+81 3 5510 0801	Nokia Mobile Communications	3GPPMEMBER - ARIB
Mr. Artur Veloso	a.veloso@alcatel.de	+49 71 18 21 47 740	+49 71 18 21 41 177	ALCATEL SEL AG	3GPPMEMBER - ETSI
Mr. Jean Vosters	jean.vosters@alcatel.be	+32 3 240 7541	+32 3 240 9989	ALCATEL BELL	3GPPMEMBER - ETSI
Ms. Emmanuelle Wurffel	emmanuelle.wurffel@etsi.fr	+33 4 92 94 42 66	+33 4 92 38 52 66	ETSI	3GPPORG_REP - ETSI
Mr. Jianming Xiao	mecbtech@public3.bta.net.cn	+86 10 63604880	+86 10 63604879	China Mobile Company Corp.	3GPPMEMBER - CWTS
Mr. Masahiko Yahagi	yamasa@mvc.biglobe.ne.jp	+81 471 85 7161	+81 471 85 6862	NEC Corporation	3GPPMEMBER - TTC
Mr. Daisuke Yokota	yokota@lucent.com	+81 3 5561 3609	+81 3 5561 9011	Lucent Techn. Japan Ltd.	3GPPMEMBER - TTC
Mr. Keiji Yoshino	yoshino@ttc.or.jp	+81 334321551	+81 334321553	TTC	3GPPORG_REP - TTC
Mr. Donald E. Zelmer	don_zelmer@bscc.bls.com	+1 404 249 3689	+1 404 249 5157	Bellsouth Cellular	3GPPMEMBER - T1
Mrs. Karin Zickermann	kzickermann@gbtwireless.com	+1 732 870 8088	+1 732 870 9008	Golden Bridge Technology Inc.	3GPPMEMBER - T1
Mr. Bernhard Böhmer				Siemens AG	3GPPMEMBER - ETSI

ANNEX C Decisions/Notes on Tdocs by Agenda Item

		Tdoc	Agenda	Type	Title	Presented by	Source	Discussion	Status
1	Opening of the meeting								
2	Approval of the agenda	NP-000211	2	Agenda	Draft CN#8 Agenda	CN chair	MCC	Stephen Hayes (CN chair) opened the meeting, and introduced the 'task oriented' method that will be adopted throughout the meeting, Ian Park (CN vice-chair) commented that agenda item 6, should be modified to include 'Release 99 and earlier'. Additionally, Tdoc allocation to agenda will be made into a Tdoc and updated throughout the meeting.	Approved
		NP-000234	2	Agenda-bis	Proposed alloc of documents to agenda items	-	CN v-Chair	Living document updated throughout the meeting to reflect the latest status of all input documents to the meeting.	living doc
		NP-000393	2	Agenda-bis	Proposed allocation of documents to agenda items (as at 18:00 CET, 21 June 2000)	-	CN v-Chair	Updated from 0234	living doc
		NP-000406	2	Agenda-bis	Proposed allocation of documents to agenda items (as at 18:00 CET, 22 June 2000)	-	CN v-Chair	Updated from 0393	living doc
3	Reports	NP-000210	3.1	Report	Draft CN#7 Meeting Report	David B, MCC	MCC	No comments to the meeting Report. Thus approved to be version 3.0.0, the official report to the TSG_N#7 meeting and will be placed to the server.	Approved
4 4.1	Liaisons TSG_N Working Groups	NP-000233	4.1	LS In	LS in - Request for co-ordination about OID handling	N4 Chair	N4	N4 asked CN plenary to coordinate the use of ETSI as a unique Organisation ID The chair will report this to the next PCG, and ask for agreement of the SDOs to support the use the ETSI OID. Note this is an Organisation ID and not an Object Identi	Agreed
		NP-000285	4.1	LS In	LS on hexadecimal IMEI	-	N4	Duplicate of NP-000214 Withdrawn	Withdrawn
		NP-000286	4.1	LS In	LS on request for co-ordination about OID handling	-	N4	duplicate of NP-000233	Withdrawn
4.2	Other 3GPP groups	NP-000315	4.2	LS In	LS on the organisation of work on VHE/OSA Release 2000	-	S2	Proposed a split of work between S2 & N5 for VHE/OSA work. Further discussion to be handled under N5 terms of reference (agenda item 5.5.2). After approval of the ToR for N5, we saw that the proposal in here aligns with the N5 ToR; Chair will report this to SA.	Noted
		NP-000322	4.2	LS In	Service Management - New R00 work item proposal under SA5's responsibility	-	S5	Informed CN and the other TSGs of a new R00 work item 'security management' that will be under the responsibility of S5. No direct impact on CN, and can be simply noted	Noted
4.3	External to 3GPP	NP-000212	4.3	LS In	LS in - PLMN search and access technology lists		New SMG9	LS informing CN of the a proposed 2-3 day joint meeting of the New SMG9, planned for mid-Aug. The aims is to discuss the PLMN selection with multiple radio access technologies. S1 and N1 may need to be involved in the discussions. The document was simply noted, and companies were invited to participate	Noted
5 5.1.1	Reports from TSG_CN Working Groups Reports from N1	NP-000256	5.1.1	Report	TSG_CN WG 1 Status Report	Hannu, N1 Chair	N1-chairman	Comments to 4.1.3 - R99 Terminology, this needs to be raised and agreed in SA Plenary and then applied across the whole of the 3GPP organisation. If agreement cannot be met, then the existing terms will remain. Neils commented that S1 has asked SMG2 this question. The CN chair will bring up this issue to SA.	Noted
		NP-000257	5.1.1	Report	TSG_CN WG 1 Meeting Report #13	-	N1	Without comments	Noted

		Tdoc	Agenda	Type	Title	Presented by	Source	Discussion	Status
		NP-000258	5.1.1	LS Pack	All LSs from TSG_CN WG 1 since TSG_CN#7	-	N1	One of the LS has be separated to NP-000213 that will be treated under R'99 security.	Noted
		NP-000277	5.1.1	Report	CN1 & SMG3WPA specifications responsibility and Rapporteurs - N1-000718	Hannu, N1 Chair	N1	Companies are encouraged to provide Rapporteurs where required. Rapporteurs are still needed for ASCI specs. Siemens and Nortel are the active companies. GSM 04.02/24.002 need rapporteurs. For R00 ASCI there is no Work Item description. The ownership of 04.12 was raised. This is currently listed as the responsibility for N4. It should belong to SMG2 instead. There is also a 24.012 which is inappropriate since it is GSM only. It was proposed that this is one example of a larger problem and that an integrity check should be done on the CN specs as a whole. It is recommended that this be done as an e-mail exercise in preparation for the next plenary.	Noted
5.2.1	Reports from N2	NP-000235	5.2.1	Report	TSG_CN WG 2 Summary Report	Keijo, N2 Chair	N2	Individual Items discussed in agenda items 6 and 7	Noted
		NP-000237	5.2.1	Report	TSG_CN WG 2 Meeting Report #11	-	N2		Noted
		NP-000238	5.2.1	Report	TSG_CN WG 2 Meeting Report #10	-	N2		Noted
		NP-000239	5.2.1	LS Pack	All LSs from TSG_CN WG 2 since TSG_CN#7	Keijo, N2 Chair	N2	Mentioned changes to CAMEL 4 part of the F/BB/WT document have been incorporated into the latest version of F/BB/WT v1.2 (see 0394)	Noted
5.2.2	Questions for Advice from N2	NP-000236	5.2.2	ToR	TSG_CN WG 2 Terms of Reference	Keijo, N2 Chair	N2	ToR needs expansion to show the specifications on which N2 works (23.078 & 29.078), and the groups with which N2 interworks (S1, N4). Interworking with SPAN3 is expected to decline. It was suggested that contact with other groups may need to be extended to include other groups to recognize the broader scope of CAMEL ph 4.	Revised to 0360
		NP-000360	5.2.2	ToR	TSG_CN WG 2 Terms of Reference	Keijo, N2 Chair	N2	It was noted that N5 is missing from the ToR. It was also noted that N4 deals also with basic call handling. These comments are incorporated in revised document	Revised to 0363
		NP-000363	5.2.2	ToR	TSG_CN WG 2 Terms of Reference	Keijo, N2 Chair	N2	Approved	Approved
5.3.1	Reports from N3	NP-000215	5.3.1	Report	TSG_CN WG3 Summary Report to CN#8	Norbert, N3 Chair	N3	No comments were made to the report	Noted
		NP-000216	5.3.1	Report	TSG_CN WG3 Meeting Report #10 (Hawaii)	-	N3	No comments were made to the report	Noted
		NP-000217	5.3.1	Report	TSG_CN WG 3 Meeting Report #09 (Berlin)	-	N3	No comments were made to the report	Noted
		NP-000218	5.3.1	LS Pack	All LSs from TSG_CN WG3 since TSG_CN#7	-	N3	No comments were made to the document	Noted
5.4.1	Reports from N4	NP-000281	5.4.1	Report	TSG_CN WG4 Summary Report	Yun-Chao.Hu ,N4 Chair	N4 Chairman	Vice chairman election in the N4#3 meeting. One nomination so far from Nokia	Noted
		NP-000282	5.4.1	Report	TSG_CN WG4 #1 Meeting Report (Charleston)	-	MCC	No Comments	Noted
		NP-000283	5.4.1	Report	TSG_CN WG4 #2 Meeting Report (Rotenburg)	-	MCC	No Comments	Noted
		NP-000284	5.4.1	LS Pack	All LSs from TSG_CN WG4 since TSG_CN#7	-	N4	The LS to AHAG is extracted to NP-000325	Noted
5.5.1	Reports from N5	NP-000304	5.5.1	Report	TSG_CN WG 5 Summary Report	N5 Chair	N5	No Comments	Noted
		NP-000306	5.5.1	Report	TSG_CN WG 5 Meeting Report #1	-	N5	No Comments	Noted
		NP-000307	5.5.1	Report	TSG_CN WG 5 Meeting Report #2	-	N5	No Comments	Noted
		NP-000308	5.5.1	Report	TSG_CN WG 5 Meeting Report #3	-	N5	No Comments	Noted
		NP-000309	5.5.1	LS Pack	All LSs from TSG_CN WG 5 since TSG_CN#7	-	N5	No Comments	Noted
5.5.2	Questions for Advice from N5	NP-000305	5.5.2	ToR	Terms of Reference	N5 Chair	N5	Ask PCS to allow us to liaise with OMG and JAIN. CN chair will raise this at the next PCG Meeting.	Approved

		Tdoc	Agenda	Type	Title	Presented by	Source	Discussion	Status
5.6	Reports from ITU-T ad Hoc	NP-000396	5.6	Report	Status on ITU-T IMT-2000	Yun-Chao.Hu, Ericsson	Yun-Chao.Hu, Ericsson		Noted
5.7	TSG_CN R00 All IP Activity	NP-000323	5.7	Report	DRAFT report from CN/S3 Meeting	-	MCC/Chair	Not yet sent out for e-mail comment	Noted
		NP-000324	5.7	Report	DRAFT report from CN/S2 Meeting	-	MCC/Chair	Not yet sent out for e-mail comment	Noted
		NP-000357	5.7	Report	ITU-T Coordination status	Stephen, CN chair	CN chair	It was noted that "3GPP representation" at the GSC-6 ad hoc can range from an explicit 3GPP delegation (membership determined by PCG) to arranging that SDO delegations agree to represent the 3GPP position at the GSC-6 ad hoc. The Chair will present this point of view at PCG. The second point (asking for PCG support) is necessary since the PCG sets the boundaries for the relationship with ITU. CN chair proposes that the ToR of the ITU-T ad hoc are expanded to allow it to formulate 3GPP positions for submission to ITU-T; this would allow more leeway for the ITU-T ad hoc to prepare inputs to the GSC-6 ad hoc. It was desired to have at least the possibility for the TSG plenary to review the output of the ITU-T ad hoc. The N4 chair pointed out that the timing of the GSC-6 ad hoc and the TSG-Plenaries means that we would have to set the 3GPP position at TSG #9. However, due to the timing issues, this schedule may be acceptable. It should be made clear that the ITU-T ad hoc doesn't have the mandate to make substantial changes to the 3GPP position. It was also pointed out that the WTSA, which may recommend a major restructuring of ITU-T, happens just after TSG #9. It was recommended that we try to push the GSC-6 ad hoc until just after the TSG #10 meetings (which are 6 - 13 December),. It was agreed that the ITU-T position can be set at CN #9. The chair asks for nominations for the convenorship of the ITU-T ad hoc, so that he can make an appointment this week. The convenor should be active in ITU-T. No candidates came forth, so the selection is deferred until CN#9.	Noted
		NP-000358	5.7	Report	CN/S3 Summary	Stephen, CN chair	CN chair		Noted
		NP-000359	5.7	Report	CN/S2 Summary	Stephen, CN chair	CN chair	Correction to N4/N3 split. Detailed stage work on H.248 goes to N4 and N4 has first responsibility for this. The MCS/MCS interface belongs to N4, MGW/MGW Interface (user/control) is the responsibility of N3. Nortel raised the issue of whether we are forced to adopt BICC on the MSCS/GMSCS interface. BT asked whether or not N4 will be profiling H.248 or simply adopting it. The question of whether S2 or CN should be deciding the protocol was discussed. At the moment S2 is doing protocol selection, which some delegates felt was an encroachment on CN responsibilities. The current role on CN is to evaluate and validate these protocols. Vodafone pointed out that there were risks associated with defining our own protocols.	Revised to 0364
		NP-000364	5.7	Report	CN/S2 Summary	Stephen, CN chair	CN chair		Revised from 0359
6 6.1	R99 and earlier Approval by W.I CAMEL Ph2	NP-000330	6.1	Report	Status of Work Item camel ph2	Stephen, CN chair	CN chair		Noted
		NP-000240	6.1.2	CRs	CRs for WI 'CAMEL phase 2- stage 2 (1)	Keijo, N2 Chair	N2	Nortel wished to postpone the CRs to allow time for analysis. They were not sure this is an essential change - modifying the function. T-mobile states that this corrects the misalignment with Stage 1 After due consideration the CRs were	Approved

		Tdoc	Agenda	Type	Title	Presented by	Source	Discussion	Status
								approved	
		NP-000241	6.1.2	CRs	CRs for WI 'CAMEL phase 2-stage 2 (2)	Keijo, N2 Chair	N2	All CRs contained within document were approved	Approved
		NP-000242	6.1.2	CRs	CRs for WI 'CAMEL phase 2-stage 3	Keijo, N2 Chair	N2	All CRs contained within document were approved	Approved
6.2	CAMEL Ph3	NP-000331	6.2	Report	Status of Work Item camel ph3	Stephen, CN chair	CN chair		Noted
6.2.2	Approval of N2 contributions	NP-000243	6.2.2	CRs	CRs for WI 'CAMEL phase 3-stage 2, Category C	Keijo, N2 Chair	N2	All CRs contained within document were approved	Approved
		NP-000244	6.2.2	CRs	CRs for WI 'CAMEL phase 3-stage 2 Category F (1)	Keijo, N2 Chair	N2	All CRs contained within document were approved . Must be checked that the changes are made to the latest versions	Approved
		NP-000245	6.2.2	CRs	CRs for WI 'CAMEL phase 3-stage 2 Category F (2)	Keijo, N2 Chair	N2	All CRs contained within document were approved.	Approved
		NP-000246	6.2.2	CRs	CRs for WI 'CAMEL phase 3-stage 2 Category F (3)	Keijo, N2 Chair	N2	All CRs contained within document were approved.	Approved
		NP-000247	6.2.2	CRs	CRs for WI 'CAMEL phase 3-stage 2 Category F (4)	Keijo, N2 Chair	N2	All CRs contained within document were approved. 2 CRs introduce Near duplication. A corrective CR will be made to correct this at the next N2 meeting.	Approved
		NP-000248	6.2.2	CRs	CRs for WI 'CAMEL phase 3-stage 2 Category D	Keijo, N2 Chair	N2	All CRs contained within document were approved.	Approved
		NP-000249	6.2.2	CRs	CRs for WI 'CAMEL phase 3-stage 3 Category F (1)	Keijo, N2 Chair	N2	All CRs contained within document were approved.	Approved
		NP-000250	6.2.2	CRs	CRs for WI 'CAMEL phase 3-stage 3 Category F (2)	Keijo, N2 Chair	N2	All CRs contained within document were approved.	Approved
		NP-000251	6.2.2	CRs	CRs for WI 'CAMEL phase 3-stage 3 Category F and D	Keijo, N2 Chair	N2	All CRs contained within document were approved.	Approved
		NP-000280	6.2.2	CRs	CRs for WI 'CAMEL phase 3-stage 3 Category C	N2 Chair	N2	All CRs contained within document were approved.	Approved
		NP-000319	6.2.2	CR	CR 23.078-xxx on Improved SDLs in clauses 6-11 D CAMEL3	-	Siemens	Will be discussed in next N4 meeting, and hopefully presented to CN#9.	Withdrawn
		NP-000320	6.2.2	CR	CR 23.078-yyy on Editorial modifications D CAMEL3	-	Siemens	Will be discussed in next N4 meeting, and hopefully presented to CN#9.	Withdrawn
6.2.4	Approval of N4 contributions	NP-000289	6.2.4	CRs	CRs for WI 'CAMEL Phase 3	N4 Chair	N4	All CRs contained within document were approved. Note keep functional changes which are potentially contentious CRs (CAT_C), in individual docs for plenary.	Approved
		NP-000321	6.2.4	CR	CR 29.002-150 on D-CSI alignment with 23.078 F CAMEL3	-	Siemens	Will be discussed in next N4 meeting, and hopefully presented to CN#9	Withdrawn
6.3	Security	NP-000332	6.3	Report	Status of Work Item security	Stephen, CN chair	CN chair	4.1.2 Removal of P-TMSI: relates to 314 (BT) and 266. (CRs) This was discussed in CN/S3 meeting, and they were neutral - due to lack of information. No objection received from S3 via e-mail and decision lies within TSG_CN.	Noted
6.3.1	Approval of N3 contributions	NP-000213	6.3.1	LS In	LS in - Reply to LS on "GPRS ciphering		N1	N4 has not yet addressed this issue, and will examine this.	Noted
		NP-000262	6.3.1	WI	R99 WI - sheet for Security	Hannu, N1 Chair	N1	R99 WI Security is considered complete by N1.	Noted
		NP-000266	6.3.1	CRs	Removal of P-TMSI signature from " Service Request" message	Hannu, N1 Chair	N1	Links with S2 CRs to remove P-TMSI from 23.060 that was approved at SA#7, thus we should approve the CRS to 24.008 in order to align with S2.	Approved

		Tdoc	*Agenda*	*Type*	*Title*	*Presented by*	*Source*	*Discussion*	*Status*
								CN chair will high-light the concerns on P-TMSI in his report to SA#8. If SA agrees to remove the function then the CRs to both 23.060 and 24.008 should be removed.	
		NP-000267	6.3.1	CR	*Support of GPRS Ciphering algorithm GEA2 / R99*	Hannu, N1 Chair	N1	*N4 should examine the requirement for additional CRs for the corresponding change to GTP as indicated by N1*	*Approved*
		NP-000273	6.3.1	CRs	*CRs for WI ''Security*	Hannu, N1 Chair	N1	*All CRs contained within document were approved.*	*Approved*
		NP-000303	6.3.1	CRs	*Support of GPRS Ciphering algorithm GEA2/ R98*	Hannu, N1 Chair	N1	*After much discussion the CR was rejected because it was a late functional change. In addition the impacts of supporting GEA2 on GTP for R97/R98 were unknown and no CRs were available for this. A liaison is also to be drafted to SA informing them of the decision.*	*Rejected*
		NP-000313	6.3.1	Report	*Functional changes to GPRS Release 98*	Sunil, BT	BT	*Proposes the rejection of the R98 CR because it is a late functional change.* *Agreement that for GPRS we should keep consistency between R97 and R98 especially as there is an impact on the GTP.* *R97 CRs are contained in 0392, these have not been seen by N1.*	*Discussed*
		NP-000314	6.3.1	Report	*P-TMSI Signature concept for GPRS Release 99*	Sunil	BT	*BT see benefits in keeping P-TMSI signature. BT want S3 to further investigate this topic. Note this is an optional feature, and has no harm in remaining.* *The Cn CRs are linked to a CR already approved by SA in 23.060*	*Discussed*
		NP-000366	6.3.1	LS Out	*LS to S3 on GEA2*	Sunil, BT	TSG_N	*Approved to be sent to S3. BT delegate will support this LS to the next S3 meeting.*	*Approved*
		NP-000392	6.3.1	CR	*CR 04.08 Optional support of GEA/2 Encryption Algorithm*	Peter K.	Ericsson	*R97 change corresponding to NP-000303. Ban gave it a CR number CR A1033, although it was rejected*	*Rejected*
6.3.4	Approval of N4 contributions	NP-000295	6.3.4	CRs	*CRs for WI 'IMEI Security'*	Yun-Chao.Hu ,N4 Chair	N4	*Extended back to Ph.2 in order to enhance security to all systems that may be manufactured.* *All CRs contained within document were approved.*	*Approved*
		NP-000300	6.3.4	CRs	*CRs for WI 'Security'*	-	N4	*Replaced by 326, 327 in order to split R99/00*	*Withdrawn*
		NP-000325	6.3.4	LS in	*LS on positive authentication reporting on network performance*	N4 Chair	N4	*CN supports the distribution of this LS outside of 3GPP to AHAG.* *There has been no decision within S3 to comply to the request from AHAG, only investigate the impacts.* *Considering the timeframes, any further work on this is for R00. CN chair to report this to SA.*	*Approved*
		NP-000326	6.3.4	CRs	*CRs on Security (Release 99)*	N4 Chair	N4	*All CRs contained within document were approved.*	*Approved*
		NP-000373	6.3.4	CR	*23.003CR022 addition of Annex A*	Yun-Chao.Hu ,N4 Chair	N4	*Required to place the IMEI information in the appropriate document (23.003).*	*Approved*
6.4	GSM Maintenance	NP-000333	6.4	Report	*Status of Work Item GSM Maintenance*	Stephen , CN chair	CN chair		*Noted*
		NP-000287	11.1	CRs	*CRs for WI 'ASCI'*	N4 Chair	N4	*ASCI CRs 3G TS 29.002, hence has to be approved by TSG_N.*	*Approved*
6.5	EDGE	NP-000334	6.5	Report	*Status of Work Item EDGE*	Stephen , CN chair	CN chair		*Noted*
6.5.1	Approval of N1 contributions	NP-000279	6.5.1	CRs	*CRs for WI 'EDGE'*	Hannu, N1 Chair	N1	*All CRs contained within document were approved.*	*Approved*
6.6	T.E.I	NP-000335	6.6	Report	*Status of Work Item TEI*	Stephen , CN chair	CN chair	*Revised without presentation*	*Revised to 0362*
		NP-000362	6.6	Report	*Status of Work Item TEI*	Stephen , CN chair	CN chair		*Noted*
		NP-000401	6.6	Report	*MERGED WG STATUS REPORT FOR WI R'99 TEI*	Stephen , CN chair	CN chair	*Duplicate of 0362*	*Withdrawn*
6.6.1	Approval of N1 contributions	NP-000268	6.6.1	CRs	*Alignment of ISDN BC coding (removing of v.32 bis mode type)*	Hannu, N1 Chair	N1	*All CRs contained within document were approved.*	*Approved*
		NP-000274	6.6.1	CRs	*CRs for WI 'TEI'*	Hannu, N1 Chair	N1	*The document was split and all CRs except 24008CR192r1 were revised to 0368. 24008CR192r1 is revised in 0367*	*Revised to 0368 and 0367*

		Tdoc	*Agenda*	*Type*	*Title*	*Presented by*	*Source*	*Discussion*	*Status*
		NP-000367	6.6.1	CRs	CR 24008CR192r1 for WI 'TEI'	Hannu, N1 Chair	N1	Referred back to the originator, and N1 for further study (see NP-000214 for discussion).	Postponed
		NP-000368	6.6.1	CRs	CR for WI 'TEI'	Hannu, N1 Chair	N1	All CRs within this document were approved	Approved
6.6.3	Approval of N3 contributions	NP-000229	6.6.3	CRs	All CRs to W.I TEI	Norbert, N3 Chair	N3	All CRs contained within document were approved.	Approved
6.6.4	Approval of N4 contributions	NP-000214	6.6.4	LS In	LS in - Hexadecimal IMEI	N4 Chair	N4	Lucent pointed out that, formally, there needs to be a linked CR to 22.016; however the danger from the misalignment is not great. Motorola raised the point that with the change to the allocation scheme for IMEIs we have a far greater address space, because there are 14 digits available for the IMEI, (even though some combinations are excluded because they have already been allocated). Nokia pointed out that inefficiency of use of the address space can mean that the usable address space is reduced by a factor of as much as 1000. Motorola accepted that the current numbering scheme is very inefficient, but backward compatibility is a very important issue. He wants to put the question to the GSM Association to see when they want to set the cutover date; also, he wants to set the requirement for the receiver but define separately the date when we can assume that it's safe for a handset to send a non-decimal IMEI. Voicestream says we need to assess the allowable cutover date against the expected exhaustion date of the existing IMEI allocation scheme. Alcatel have strong reservations about a change in coding scheme for IMEIs – they want to do an impact analysis to see the ramifications. Motorola reiterated their proposal to define the requirement for support of pentadecimal IMEIs in the receiver for R99, but to defer the permission for the sender to send pentadecimal IMEIs until we know when it would be safe to do so. They believe that the protocols should allow transparent transport, and we need only deal in the EIR at the functional level with the pentadecimal IMEI. Ericsson identified other places where the IMEI is used at the functional level – in the MSC for equipment trace, lawful interception, etc... Nortel supplemented the list with billing systems, fraud detection engines. It was agreed to formulate a liaison to GSMA to tell them when we expect the current IMEI coding scheme to be exhausted, and ask them when they expect that it would be safe to use non-decimal IMEIs. The CN vice-chair (Ian Park) agreed to work with Motorola to draft the liaison. It was also agreed that any change should be put into all releases from phase 2 onwards, indicating that after the cut-off date all receivers shall be able to handle non-decimal IMEI digits. On the proposed cut-off date, Nortel suggested that we indicate that implementations could be available within 2 years, and ask for guidance from GSMA on when they expect that it would be safe for mobiles to use hex IMEIs. After further discussion, with other manufacturers objecting to putting through the CRs in a rush, it was decided to postpone the pre-99 CRs to the next meeting. Ericsson wants to postpone the R99 CR as well, as a	Discussed

		Tdoc	*Agenda*	*Type*	*Title*	*Presented by*	*Source*	*Discussion*	*Status*
								consequence.	
								LS should go to GSM Association; Motorola also wants the LS sent to EICTA.	
		NP-000232	6.6.4	LS In	LS in hexadecimal coding of IMEI	-	S3	*Objects to the sending of 'Dummy' IMEI*	*Noted*
		NP-000301	6.6.4	CRs	Editorial CRs for WI 'TEI'	Yun-Chao.Hu ,N4 Chair	N4	*The IMEI CR was revised to 0369 All remaining CRs are revised to 0370*	*Revised to 0369 and 0370*
		NP-000302	6.6.4	CRs	Corrective CRs for WI 'TEI'	N4 Chair	N4	*The IMEI CR was merged with the CR from 0301 to 0369 All remaining CRs are revised to 0371*	*Revised to 0369 and 0371*
		NP-000369	6.6.4	CRs	CRs for WI 'TEI - Hex IEMI' to 23.003	Yun-Chao.Hu ,N4 Chair	N4	*Referred back to the originator, and N4 for further study.*	*Postponed*
		NP-000370	6.6.4	CRs	Functional CRs for WI 'TEI'	N4 Chair	N4	*Remaining CRs from 0301 All CRs within this document were approved*	*Approved*
		NP-000371	6.6.4	CRs	Corrective CRs for WI 'TEI'	N4 Chair	N4	*Remaining CRs from 0302 All CRs within this document were approved*	*Approved*
		NP-000372	6.6.4	LS Out	LS to GSM Assoc Terminals working Group and ECTA about the proposed modifications to IEMI coding	Ian Park	Ian Park	*Comments made to the text are added in a revised version.*	*Revised to 0386*
		NP-000386	6.6.4	LS Out	LS to GSM Assoc Terminals working Group and ECTA about the proposed modifications to IEMI coding	Ian Park	TSG_N	*Approved to be sent*	*Approved*
6.7	Multimedia	NP-000336	6.7	Report	Status of Work Item Multimedia	Stephen , CN chair	CN chair	*CN consider R99 W.I Multimedia as complete*	*Noted*
		NP-000271	6.7	CRs	CRs for WI 'CS Multimedia'	Hannu, N1 Chair	N1	*All CRs contained within document were approved.*	*Approved*
6.7.3	Approval of N3 contributions	NP-000227	6.7.3	CRs	All CRs to W.I Multimedia	Norbert, N3 Chair	N3	*All CRs contained within document were approved.*	*Approved*
6.8	OoBTC	NP-000337	6.8	Report	Status of Work Item OoBTC	Stephen , CN chair	CN chair	*Noted that the scope of OoBTC has been reduced to ensure timely completion*	*Noted*
6.8.1	Approval of N1 contributions	NP-000260	6.8.1	WI	R99 WI - sheet for Out of Band Transcoder	-	Ericsson/ N1	*Reflects the present status of W.I OoBTc*	*Noted*
6.8.4	Approval of N4 contributions	NP-000316	6.8.4	Report	TFO-TrFO activity report	Yun-Chao.Hu ,N4 Chair	N4 Chairman	*CN encourage that the next TFO-TrFO meeting be held on 18th July following on from N4#03 meeting. The host needs to confirm availability for this meeting. This date will be confirmed on the N4_TrFO email exploder.*	*Noted*
		NP-000317	6.8.4	Report	TFO-TrFO workshop meeting report	N4, Chair	MCC	*Missing Tutorial will be added by Franco to the meeting server. Provided to CN in NP-000374.*	*Noted*
6.10	Call Deflection	NP-000339	6.10	Report	Status of Work Item Call Deflection	Stephen , CN chair	CN chair		*Noted*
6.10.4	Approval of N4 contributions	NP-000288	6.10.4	CRs	CRs for WI 'Call Deflection'	Yun-Chao.Hu ,N4 Chair	N4	*All CRs contained within document were approved.*	*Approved*
6.11	CCBS	NP-000340	6.11	Report	Status of Work Item CCBS	Stephen , CN chair	CN chair		*Noted*
6.11.4	Approval of N4 contributions	NP-000290	6.11.4	CRs	CRs for WI 'CCBS'	N4 Chair	N4	*All CRs contained within document were approved.*	*Approved*
6.12	CF Enhancements	NP-000341	6.12	Report	Status of Work Item CF Enhancements	Stephen , CN chair	CN chair		*Noted*
6.12.4	Approval of N4 contributions	NP-000291	6.12.4	CRs	CRs for WI 'CF Enhancements'	Yun-Chao.Hu ,N4 Chair	N4	*All CRs contained within document were approved.*	*Approved*
6.13	GPRS	NP-000342	6.13	Report	Status of Work Item GPRS	Stephen , CN chair	CN chair		*Revised to 0397*

		Tdoc	Agenda	Type	Title	Presented by	Source	Discussion	Status
		NP-000397	6.13	Report	Status of Work Item GPRS	Stephen, CN chair	CN chair		Noted
6.13.1	Approval of N1 contributions	NP-000269	6.13.1	CRs	CRs for WI 'GPRS'	Hannu, N1 Chair	N1	All CRs contained within document were approved.	Approved
6.13.4	Approval of N4 contributions	NP-000318	6.13.4	CRs	CRs for WI 'GPRS'	N4 Chair	N4	All CRs contained within document were approved.	Approved
6.14	GTP Enhancements	NP-000343	6.14	Report	Status of Work Item GTP Enhancements	Stephen, CN chair	CN chair		Noted
6.14.4	Approval of N4 contributions	NP-000292	6.14.4	CRs	Editorial CRs for WI 'GTP Enhancements'	Yun-Chao.Hu ,N4 Chair	N4	All CRs contained within document were approved.	Approved
		NP-000293	6.14.4	CRs	Corrective CRs for WI 'GTP Enhancements'	Yun-Chao.Hu ,N4 Chair	N4	NEC requested that CR 29060CR105 postponed to allow time for study. CN reminded delegates that CRs considered contentious should be removed from the packaged CRs to avoid delays in the Plenary CR 29060CR105 is revised to 0375 and the rest to 0376.	Revised to 375 and 376
		NP-000375	6.14.4	CRs	Corrective CR to CR 29060CR105 for WI 'GTP Enhancements'	N4 Chair	N4	CR referred back to N4 for further study (awaiting response to associated liaison).	Postponed
		NP-000376	6.14.4	CRs	Corrective CR for WI 'GTP Enhancements'	N4 Chair	N4	All Crs in the document were approved	Approved
6.15	Handover	NP-000344	6.15	Report	Status of Work Item Handover	Stephen, CN chair	CN chair		Noted
6.15.4	Approval of N4 contributions	NP-000294	6.15.4	CRs	CRs for WI 'Handover'	Yun-Chao.Hu ,N4 Chair	N4	All CRs in the document were approved	Approved
		NP-000270	6.16	CRs	CRs for WI 'GSM / UMTS Interworking'	Hannu, N1 Chair	N1	N4 has secondary responsibility for 23.009. N4 has seen the CRs and have approved the changes	Approved
6.16	GSM_UMTS Interworking	NP-000345	6.16	Report	Status of Work Item GSM_UMTS Interworking	Stephen, CN chair	CN chair	revised without discussion	Revised to 0361
		NP-000361	6.16	Report	Status of Work Item GSM_UMTS Interworking	Hannu, N1 Chair	N1		Noted
		NP-000391	6.16	CR	CHANGE REQUEST 24.008 On Removal of Service Accept message	-	Ericsson		Withdrawn
		NP-000400	6.16	Report	MERGED WG STATUS REPORT FOR WI R'99 GSM-UMTS Interworking	Stephen, CN chair	CN chair	Duplicate of 0361, Withdrawn	Withdrawn
6.16.1	Approval of N1 contributions	NP-000265	6.16.1	CR	Removal of "Service Accept" message	Hannu, N1 Chair	N1	The CR is postponed as there are some questions that need investigating relating to the deletion of this message. Motorola mentioned the requirement to broaden the scope. This should be taken directly to N1. SA have agreed the CR to the stage 2 (23.060) CR however there is some ambiguity as to whether use of the Service Accept message is explicitly prohibited by 23.060. The decision not to approve this CR and the possible inconsistency between the stage 2 & 3 will be highlighted to SA#8.	Postponed
6.17	LCS	NP-000346	6.17	Report	Status of Work Item LCS	Stephen, CN chair	CN chair		Noted
6.17.4	Approval of N4 contributions	NP-000296	6.17.4	CRs	CRs for WI 'Location Services'	Yun-Chao.Hu ,N4 Chair	N4	Note CRs to wrong version CRs made to one version older 23.008 and 23.016. Consistency needs to be checked.	Approved
6.18	MNP	NP-000347	6.18	Report	Status of Work Item MNP	Stephen, CN chair	CN chair		Noted

		Tdoc	Agenda	Type	Title	Presented by	Source	Discussion	Status
6.18.4	Approval of N4 contributions	NP-000297	6.18.4	CRs	CRs for WI 'Mobile Number Portability'	Yun-Chao.Hu ,N4 Chair	N4	All CRs in the document are approved	Approved
6.19	Multicall	NP-000348	6.19	Report	Status of Work Item Multicall	Stephen , CN chair	CN chair	Multicall is considered complete	Noted
6.19.1	Approval of N1 contributions	NP-000261	6.19.1	WI	R99 WI - sheet for Multicall	Hannu, N1 Chair	N1	Work Item Multicall complete	Noted
		NP-000278	6.19.1	CRs	CRs for WI 'Multicall'	Hannu, N1 Chair	N1	All CRs contained within document were approved.	Approved
6.19.4	Approval of N4 contributions	NP-000298	6.19.4	CRs	CRs for WI 'Multicall'	N4 Chair	N4	All CRs in the document are approved	Approved
6.20	QoS Enhancements	NP-000349	6.20	Report	Status of Work Item QoS Enhancements	Stephen , CN chair	CN chair	Enhanced QoS is considered complete	Noted
6.20.1	Approval of N1 contributions	NP-000272	6.20.1	CRs	CRs for WI ''QoS	Hannu, N1 Chair	N1	All CRs contained within document were approved.	Approved
6.20.4	Approval of N4 contributions	NP-000299	6.20.4	CRs	CRs for WI 'QoS Enhancements'	N4 Chair	N4	All CRs in the document are approved	Approved
6.21	CS Bearers in UMTs	NP-000350	6.21	Report	Status of Work Item CS Bearers in UMTS	Stephen , CN chair	CN chair		Revised to 0398
		NP-000398	6.21	WI	Status of Work Item CS Bearers in UMTS	Stephen , CN chair	CN chair		Noted
6.21.3	Approval of N3 contributions	NP-000223	6.21.3	CRs	All CRs to W.I CS Bearers in UMTS	Norbert, N3 Chair	N3	All CRs contained within document were approved.	Approved
6.22	R99 service Clean-up	NP-000351	6.22	Report	Status of Work Item R99 Service clean up	Stephen , CN chair	CN chair	Nortel questioned the status of MAP security CN chair indicated that SA3 are examining level 1 and 2. Once this is fixed CN will be able to continue with further development	Noted
6.22.3	Approval of N3 contributions	NP-000228	6.22.3	CRs	All CRs to W.I R99 Service Clean up	Norbert, N3 Chair	N3	All CRs contained within document were approved.	Approved
6.22.5	Approval of N5 contributions	NP-000310	6.23.5	TS	3G TS 29.198, Open Services Architecture, Application Programming Interface - part 1	Lucas, N5 chair	N5	Approved to be made v3.0.0 with the editorial change to remove the (nearly) duplicate sentence at the end of the first paragraph.	Approved
		NP-000311	6.23.5	TR	3G TR 29.998, Open Services Architecture, Application Programming Interface - part 2	Lucas, N5 chair	N5	Approved to be made v3.0.0	Approved
7	R00 reporting by IGC	NP-000259	7	Report	R00 Feature/BB/WT input from CN1 (CN1 #12)- N1-000782	-	N1	These changes have already been incorporated in v1.2 of the project plan.	Noted
7.3	Call Control and Roaming	NP-000352	7.3	Report	Status of IGC Call Control and Roaming	Stephen , CN chair	CN chair	CN Agree to delete L3 segmentation Work Item CN Agree to delete turbocharger Work Item ASCI will be treated by SMG3, and will be transferred to TSG_N in July.	Noted
		NP-000263	7.3.1	WI	New WI description for R00 -"SIP-CC"	Nigel, Lucent	Lucent / N1	Draft version of the W.I sheet (rapporteur R. Brooke) Under e-mail review by N1, and will be presented for approval at CN#9. A general discussion ensued as to the relationship between WIDs and F/BB/WT. It was decided this needs to be addressed on a case-by-case basis. However coverage must be documented in the F/BB/WT matrix. The N1 chair indicated that this was the only R'00 WT in N1's remit so far that seemed large enough to justify a WID. General comment: work can proceed (discussions) without an approved WID sheet, but CRS and specs cannot be approved without a W	Noted

		Tdoc	Agenda	Type	Title	Presented by	Source	Discussion	Status
		NP-000264	7.3.1	WI	New WI description for R00 -"Emergency call Enhancement"	Peter K.	Ericsson / N1	Work Items for CS and PS Emergency call enhancement. CN chair reminded that these sheets should be presented individually to the plenary. This is was sent out for review by email in N1. Nokia points out that for both WIs the question marks in the work item leadership should be deleted. For the CS emergency call WID, Nokia suggests that the callback function may have an impact on the access network. He also suggests that we should state that charging is "as existing emergency call handling", and security is "as existing". Additional supporting companies are asked to identify themselves; Lucent offered to support the WI. BT asked why there are 2 work items, when we want to avoid proliferation of WIDs. It was explained that the CS enhancements are on a different timeline from the PS enhancements. BT argued that if we want to support SIM less emergency calls then there will be an impact on the ME. Peter Kobriger responds that S1 haven't yet made clear that the enhancements are required for SIM less emergency call. Updated CS WID will be 0379. For the PS emergency call WID, CSELT/TIM and Motorola and Fujitsu and Lucent were added to the supporting companies. Nokia pointed out that there is a lot more foundation work to be done than for CS, and wants this reflected in the WID. Ericsson offered to expand the first bullet to answer this. Revised version of PS WID will be in 380.	CS Part revised to 0379 PS Part revised to 0380
		NP-000379	7.3.1	WI	New WI description for R00 -"Emergency call Enhancement for CS"	Peter K.	Ericsson / N1		Approved
		NP-000380	7.3.1	WI	New WI description for R00 -"Emergency call Enhancement for PS"	Peter K.	Ericsson / N1		Approved
		NP-000220	7.3.3	WI	Work item sheet for Service Modification without pre-notification between Speech and Fax, speech and Modem	Norbert, N3 Chair	N3	Combined with BICC solution in 0224	Noted
		NP-000221	7.3.3	WI	Work item sheet Service Modification without pre-notification using BICC	Norbert, N3 Chair	N3	Combined with non-BICC solution in 0224	Noted
		NP-000222	7.3.3	TS	3G TS 23.146 v2.0.0 Real time NT facsimile	Norbert, N3 Chair	N3	Approved to be moved to v4.0.0 Vodafone - ITU-T v.25 bis is not really contentious but outstanding. N3 chair agreed that this will be done with corrective CRs, and is hence outstanding.	Approved
		NP-000224	7.3.3	WI	COMBINED Work item sheet Service Modification without pre-notification	Norbert, N3 Chair	N3 Chairman	It was agreed to treat the combined WI rather than two separated WIs. Nokia asked if there was confidence that the access network is not affected. This needed consultation. Nokia also asked whether the change will apply both to W-CDMA RAN and GERAN; if so, the access network will definitely be affected. Agreed to move the cross for the access network to "don't know" Nortel asked why the two service scenarios are set out – what is the significance? The N3 chair answered that the need to manipulate	Revised to 381

		Tdoc	*Agenda*	*Type*	*Title*	*Presented by*	*Source*	*Discussion*	*Status*
								transcoders as well as modems adds complexity to the handling. NEC added that it creates a dependency on the TrFO work item. Service scenario 1 doesn't have this dependency, so we could possibly deliver the output for scenario 1 earlier. Nortel asked for section 4 to show BICC as an example of a bearer control protocol, rather than the only bearer control protocol to be used; this was accepted. Revised version is in 381.	
		NP-000225	7.3.3	CRs	All CRs to W.I Facsimile	Norbert, N3 Chair	N3	It was noted that this is really a R'00 CR. The N3 chair reported that several other CRs have been implemented as Release 99 when they should have been R'00. He proposes to implement this one as R99 to make the R99 specification set consistent, then map the fax-related specs to R00. Motorola and Vodafone believed we should treat this as R'00 and then process the tidying-up CRs for all the other specs with all possible speed. The latter view prevailed. Approved as R'00 CR in 382.	Revised to 0382
		NP-000381	7.3.3	WI	COMBINED Work item sheet Service Modification without pre-notification	Norbert, N3 Chair	N3 Chairman		Approved
		NP-000382	7.3.3	CRs	All CRs to W.I Facsimile for R00	Norbert, N3 Chair	N3	Revised from 0225 so that the CR be made to R00 not R99.	Approved
7.4	CODECS	NP-000353	7.4	Report	Status of IGC Codecs	Stephen, CN chair	CN chair		Noted
		NP-000374	7.4	Report	Additional Tutorial document for TrFO	Peter K.	MCC	Missing Annex to the TrFO report and provided for information only to CN Plenary. Closer relationships with other bodies will be followed up in TrFO workshops. BT mentioned the need for VoIP consideration, however the N4 chair replied VoIP is R00 whileTrFO is R99. Thus VoIP is not in the WID.	Noted
7.7	Service Platforms	NP-000354	7.7	Report	Status of IGC Service platforms	Stephen, CN chair	CN chair		Noted
		NP-000252	7.7.2	TR	3G TR 21.978 Feasibility Study Report - CAMEL Control of VoIP	Keijo, N2 Chair	N2	Approved to be made v3.0.0. Will not be progressed to v4.0.0.	Approved
		NP-000312	7.7.5	WI	WI sheet OSA	-	N5		Withdrawn
		NP-000402	7.7.6	Report	CAMEL Phase 4 Priorities	Randolf, Pacific Bell Wireless			Noted
7.8	Security	NP-000327	7.8	CRs	CRs on Security (Release 00)	N4 Chair	N4	Note intermediate v3.5.0 of 29.002 will be made in order to create 4.0.0	Approved
		NP-000355	7.8	Report	Status of IGC Security	Stephen, CN chair	CN chair	N4 chair presented N4 part: of report. Nortel commented S5 was tasked to do the study level 1&2 work on this. CN chair corrected that S3 have the ownership of this Work and are studying the decision if MAP level 1 and 2 will be used. This will be decided by SA3.	Noted
8 8.1	Project Management Work Item Management	NP-000328	8.1	Report	Release 2000 Scope and Timescales	Sunil, BT	BT	CN chair mentioned that during the CN/S3 meeting the rule of thumb was High priority work completion in 6 months - and lower priority 9 months. It was clarified that CN can in many cases only give a delta time for completion. The time it will take to complete a task given fulfilment of any dependencies. An attempt to work through the F/BB/WT matrix at the BB level and assign times was aborted as it took too much time. Instead 0383 was used to allocate CN timeframes. Nortel asked about the proposal for work split for R00? CN are greatly dependent upon S2 (amongst others). It was noted that this will be discussed in SA#8 and that there was no	Noted

		Tdoc	Agenda	Type	Title	Presented by	Source	Discussion	Status
								benefit in having the discussion in CN#8.	
		NP-000377	8.1	Report	Draft R00 W.I Summary	Stephen, CN chair	CN chair	N4 chair suggested that we may need to resurrect the OoBTC WID, which was originally generated forR99. BT indicated that interworking between IM subsystem & IP is planned for presentation at CN#9. CN chair asked MCC to produce a report of work item status for the next CN plenary. This can be done by extraction from the overall project plan. Nortel asked whether there is an easily accessible repository of the WIDs. They are not at the moment; the intention in MCC is to set up hot links from the project plan to the WIDs, for both the MS Project and the MS Word versions of the project plan. It was noted that N4 was assigned responsibility for the WI "Evolution of transport in CN". However, no work has been done as it seems to be covered under an existing S2 WI. Document was noted.	Noted
		NP-000383	8.1	Report	CN R00 W.I Time scales	Stephen, CN chair	CN chair	Gives CN chair's guesstimates of dependencies and delta timescales for the CN-relevant work items. The chair limited his list to those items for which he saw major CN involvement. SIP CC in CN: After discussion, agreed to make the delta 9 – 15 months. Emergency call enhancements for CS: identified dependency on S1; reduce delta to 3 – 9 months. Emergency call enhancements for PS: Nokia believes that we need only 3 – 6 months after the SIP call control is ready; however CN chair points out that we have to synchronise the delivery of SIP call control and emergency calls over SIP. Nortel thinks we should raise the bounds for this to 9 – 18 months. Eventually settled on 9 – 15 months. RT Fax: done. CS multimedia swap and fallback: agreed 6 – 9 months. Service modification without pre-notification: agreed 3 – 9 months. Interworking between IM subsystem & CS: we have dependency with S1; delta is 9 – 15 months. Interworking between IM subsystem & PS: we have dependency with S1; delta is 9 – 15 months. Control & bearer separation in CS: 6 – 12 months. SDM for IM subsystem: Dependency is on S2; 9 – 15 months. OSA R2000: 9 – 15 months. Nokia identified dependencies of some of our work items on other of our work items. This would tend to add to the upper bound of (e.g.) the interworking between IM and CS/PS. Nortel responded that we are looking at the system level for delivery, and we'll deliver as a package, so we needn't add to the delta for the interworking items. Core network security (minimum solution): no dependency; 3 months (i.e. CN #9). Core network security (full solution): dependency on S3; delta 6 – 15 months	edited on line and revised to 0385

		Tdoc	Agenda	Type	Title	Presented by	Source	Discussion	Status
								Key management: dependency on S3; 6 – 9 months (depends on whether S3 opt for MAP-based key management or IKE)	
								TrFO: dependency on S2 & S4; 9 – 15 months	
								New features for CAMEL phase 4: dependency on S1; 12 – 18 months.	
								Ericsson added that we need to add the work item QoS for handover in GPRS. Dependency is on S2, delta is 6 – 12 months.	
								DoCoMo asked where we go from here. CN chair responds that we provide our input to SA, who may well escalate to PCG to decide on the possible retiming and/or rescoping of R2000.	
								Ericsson asked for a review of the updated version of this document at the next CN plenary, based on inputs from WGs.	
								Revised version is in 385	
		NP-000385	8.1	Report	CN R00 W.I Time scales	Stephen, CN chair	CN chair	This will provide CN input to the discussions in SA#8 to inform them how long CN consider they need to do the work, and the dependencies. Decisions on delaying Releases and moving WIS to later releases will be taken by SA and/or possibly PCG.	Agreed
		NP-000394	8.1	FF_BB_WT	3GPP Project Plan for R00 v.1.2	Stephen, CN chair	S2	This was updated according to the discussion in last week's CN-S2 meeting. CN chair reminded the meeting that the default is to have a work item per building block, though departures from this default are possible. Motorola asked WG chairmen to take special steps to keep the IGC co-ordinators aware of changes in status of the relevant F/BB/WT. The CN chair noted that N1 have appointed specific people to maintain liaison with the IGC co-ordinators, and recommended that N3 and N4 do the same; for N2 and N5 the need is less pressing, because their scope is more restricted. Document was noted.	Noted
8.3	Working Methods / Style	NP-000253	8.3	TS	TS 21.100 version 1.0.0	-	JMM		Withdrawn
		NP-000254	8.3	TS	TS 21.200 version 1.0.0	-	JMM		Revised to 0403
		NP-000255	8.3	Report	Proposals for procedures related to transfer of GSM specifications to 3GPP	JMM	MCC	Proposed the new directory structure for the migration of the GSM specifications to 3GPP/ Note the renaming of directories to make sure that sort order matches chronological order. The process of updating specification cover pages of GSM specs will be done as each spec is modified by a CR. Motorola pointed out that those specs which are under the care of "New SMG9" won't be on the 3G server; neither will the specifications managed by MSG. Ericsson raised the concern that the change to directory structure will mean a lot of work in companies to update tools which access the specification directories. Ericsson also asked which format the files will be stored in, bearing in mind that many companies use non-Windows environments. MCC (John Meredith) gave an assurance that the .doc format will continue to be made available. BT asked how we identify a particular version of a particular specification for statements of requirements; MCC (John Meredith) responded that it will be by specification number, with the version defined by the serial number of the meeting at which the revision was approved. For GERAN, the publication date will be synchronised to the meetings of TSG CN/RAN/T/SA. Motorola asked when the document number change will happen, and warns that there will be a major editing task to update internal	Noted

		Tdoc	Agenda	Type	Title	Presented by	Source	Discussion	Status
								references to document numbers.	
								Motorola raised the concern that MCC action to correct the incorrect application of a CR will lead to an editorial version upgrade. MCC (John Meredith) indicated this practice will cease! Correction of a wrongly implemented CR will be by way of a further corrective CR. Nokia asked what measures will be taken to protect against virus infection. MCC (John Meredith) assured him that all incoming material, whether on diskette or by email, is thoroughly swept, and the servers are also frequently swept. Nokia also raised the concern about intrusions which could corrupt the contents of documents without being virus infection.	
		NP-000365	8.3	Report	Proposal on Freeze of R99	Mikko	Nokia	DoCoMo questioned the differentiation between vendors / operators that exists in the document. Suggested to change of term from vendor to manufacturer - it was mentioned that this has already been done (October). There was concern that it was premature to start limiting the types of corrections for R'99.	Rejected
		NP-000384	8.3	Report	Proposal for controlling changes to Release 99	Stephen , CN chair	RAN V-Chair	This is a derivative of 365, but has some significant differences: - Corrections need not be for serious errors; - We can correct the omission of an agreed part of the R99 feature set from the specification; - A correction can lead to a functional modification; - The possibility of a change agreed by relevant vendors being accepted in the face of opposition by operators is removed. Ericsson noted that it would be enough to prohibit changes of categories B or C, because we are too close to the closure date for R99. There are several parts of this document which are too specific to RAN to be applicable to CN. Document was endorsed in principle, provided we remove the RAN-specific material and point F4. The "endorsement in principal" will be reported to SA#8.	Discussed
		NP-000399	8.3	Report	Usage of SDLs in technical specifications	Peter K.	Ericsson	Concerns on SDL versions and the fact that text may be more accurate than SDLs. It was mentioned that in SMG3 WPA SDLs were found not to be appropriate and suggests that the CN WGs be allowed to study the utility of SDLs for their specifications. The proposal was not accepted as CN policy. Ericsson may bring it to WGs for discussion.	Rejected
		NP-000403	8.3	TR	TR 21.801 version 1.0.1	JMM	MCC	3GPP Drafting rules based on the ISO rules. Normative ANNEXes in a TR, as it is not published this will not be changed. Ian Doig, refers to 3G TS/TR and should also include 2G TR/TS – this will be modified.	Noted
		NP-000405	8.3	Report	Proposed Guidelines for e-decisions	Stephen , CN chair	CN chair	Note this was not formally part of the CN meeting, but was an information session open to all including delegates from other TSGs. It was clarified that these discussions focused primarily on the use of e-decisions at the TSG level. Nortel asked a question about the goals of e-decisions. Are e-decisions intended to handle urgent decisions between Plenaries or to save plenary meeting time by dealing with non-controversial issues? CN chair responded that we have to avoid using e-decisions for controversial issues, because it is not a good medium for interactive dialog. For ratification of CRs which have been discussed in a WG, Nortel says we need to have a calendar so that companies can plan their participation in the email approval	Discussed

		Tdoc	Agenda	Type	Title	Presented by	Source	Discussion	Status
								process. Motorola was worried about the proliferation of spec versions which can result if we have electronic approval between Plenaries. Nokia supported this view. If we have face-to-face Plenaries every 3 months then the earlier approval of CRs doesn't give a significant time advantage. Nokia indicated that we need to have a more uniform process for handling electronic approval at the working group level. Vodafone suggested that we can have an electronic plenary as a preamble to the face-to-face plenary to save plenary time on non-controversial CRs; however the CN chair points out that this imposes a need for WGs to produce their outputs earlier, to save a small amount of time at the plenary. Nortel pointed out that the more effective use of electronic approval is to ratify actions which were defined at a late stage in the face-to-face meeting but which we didn't have executed because of lack of time. The scope for this is more limited for the TSGs than for WGs; however Motorola points out that we shouldn't ban the use of e-decisions after TSGs... AT&T pointed out that we might also be able to use e-decisions to deal with timing problems relative to external meetings (e.g. ITU-T); however the CN chair warned that these issues may well be controversial. The use of e-decisions should not be rigidly defined, to allow flexibility in their application. Ultimately, it was agreed that the most promising use of e-decisions was for follow up after a plenary. No hard guidelines for timelines could be given, but it should be determined on a case-by-case basis as dictated by the circumstances. Any timeframes should be clearly communicated.	
8.5	TSG_CN ToR	NP-000219	8.5	ToR	Terms of Reference for TSG_CN WG 3	Norbert, N3 Chair	N3	Nokia asked for the addition of maintenance and DEVELOPMENT of GSM specifications Due to limitations in time and the need to revise the text, this is Postponed to TSG#9 and referred back to N3 for further improvements	Postponed CN#9
		NP-000356	8.5	ToR	DRAFT CN ToR	Stephen, CN chair	CN chair	Nokia objected to the lack of clarity on the term 'integration'. It was agreed that this would be done. The term suitability analysis was also objected to, as some delegates felt this is generally done by SA2. Ericsson commented that at the CN/S2 meeting it was agreed that should take on this role. Alternate wording "Analysis validation and possible extension of externally developed protocols for application within the 3GPP core network" was proposed by AT&T and agreed. This will be discussed by e-mail for approval at CN#9.	POSTPONED e-discussion and approval by CN#9
		NP-000387	8.5	ToR	DRAFT CN ToR	Stephen, CN chair	CN chair	duplicate doc	Withdrawn
		NP-000395	8.5	ToR	Proposed N4 ToR	Yun-Chao.Hu, N4 Chair	N4 Chair	Assigning N4 responsibility for GPRS stage 2 should be removed. Other comments included clarifying the N4 works on CN protocols, possibly listing the specifications in N4'' remit, and removal of any overlap with N1. The ToR was referred back to N4 to be resubmitted for TSG#9.	Postponed
10	Work Plan and future meetings	NP-000378	10	List	Year 2001 calendar of TSG_N meetings	Stephen, CN chair	CN v-Chair	Presented for information Note that SA Plenary has been extended to 4 days	Noted

		Tdoc	Agenda	Type	Title	Presented by	Source	Discussion	Status
11 11.1	A.O.B SMG3 Ad Hoc	NP-000226	6.4	CRs	All CRs to W.I GSM maintenance	Norbert, N3 Chair	N3	This was also discussed in SMG#32, These CRs have not been seen by SMG3, and SMG#32 give final approval authority to TSG_N. Questions were raised as to the requirement for corresponding CRs to 08.20, Nokia clarified that this has been checked and there are no impacts.	Approved
		NP-000275	11.1	CRs	CRs for WI 'ASCI - R99'	Anscar	STF139		Approved in SMG3
		NP-000276	11.1	CRs	CRs for WI 'ASCI - R00'	STF139 Chairman	STF139	Discussed in SMG3 ad hoc Version 9.0.0 GSM specifications will result from these CRs. 03.68 03.60 04.68 469. TSG_SA will decided if the specifications are to be transferred to UMTS and a resulting 2x.xxx or 4x.xxx	Approved in SMG3
		NP-000338	11.1	Report	Status of Work Item ASCI	Stephen, CN chair	CN chair		Noted
		NP-000404	11.1	WI	Work item description for ASCI R2000 enhancements	STF139 Chairman	STF139	Work Item requested by SMG to be presented to TSG_SA. The aim of this work item is to introduce ciphering in the shared channel Will come back to CN when the SMG elements are transferred to 3GPP in July 2000.	Approved by SMG3

History

Document History	
20th July 2000	DRAFT v.1.0.0 dispatched to the TSG_CN mail exploder for comments. Comments to be addressed to: **Mr. David Boswarthick, 3GPP TSG-N MCC Support** MCC - ETSI Secrétariat Tel :+33 (0)4 92 94 42 78 e-mail: david.boswarthick@ETSI.fr A deadline of 2 weeks was given to the CN delegates for e-mail comments on the draft report. **E-mail comments back by 3rd August 2000**
8th August 2000	Draft report v2.0.0 placed on the FTP server
20th September 2000	Final v2.0.0 approved at TSG#9 Meeting in Hawaii – Made version 3.0.0 and placed to server as the official meeting report