

3GPP
Technical Specification Group Core Networks
Working Group 2
Meeting #2, Issy-les-Moulineaux, 22nd ÷26th March, 1999

Document **N2-99303**

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Title: **draft Meeting Report**

Document for: **Information**

Attention: **Agenda item <1>**

1 Opening of the meeting and approval of the agenda

Tdoc N2-99101

The Chairman opened the meeting, thanking Noel Crespi (CNET) for inviting the meeting in Paris. Afterwards, Noel Crespi supplied some logistic information and a quick round of introductions followed. Dr. M. Yabusaki (NTT DoCoMo Europe) informed the floor of his election as TSG-CN Vice Chairman.

2 Introduction & grouping of contributions; allocation of a working session for each subject

Tdoc N2-99102

It was agreed to allocate one document number only in the 3GPP series. It was then clarified that every subgroup, A and B, will handle autonomously the order of documents discussion. Agreed.

3 Reports

3.1 Review of reports from WPC Sophia Antipolis (Jan 1999) & 3GPP CN2 Sophia Antipolis (Feb 1999) meetings

Tdoc N2-99103

Report of the WPC meeting in Sophia Antipolis, January '99. Agreed.

Tdoc N2-99104

Report of the joint 3GPP/WPC meeting in Sophia Antipolis, February '99. Agreed.

3.1 Report back from SMG3 plenary, Jan 1999, and TSG-CN plenary, Mar 1999

Tdoc N2-99151

3GPP-CN plenary meeting report, produced by ETSI. Noted.

Tdoc N2-99153

CN plenary summary, prepared by the WPC Chariman, who presented it. Harald Dettner was elected as CN Chairman, Stephen Hayes and Masami Yabusaki were elected Vice Chairmen. For the next meeting, it was agreed to continue to meet in joint meetings, for the purpose of maintaining SMG Specs. The outcomes of Work Item discussion was presented: in particular, a single big Work Item combining max number of multiple calls and bearer/teleservices negotiation was agreed. LS will be sent to the addressee without the need for approval at a higher level than N2. Concerning meeting arrangement, it was agreed to maintain the Monday to Friday, or shorter, arrangement. Delegates were eventually informed that ETSI will be migrating shortly to Office '97.

4 Election of WG2 Chairman and Vice-Chairmen

Chair was handed over to M. Yabusaki, who listed the names of the candidates for the three positions (one for Chairmanship, two for Vice-Chairmanship). A last minute check for other nominations showed none further. The conditions for an uncontested election were fulfilled, so Chairman and Vice Chairmen were elected, and warmly thanked for their hard work. The newly elected persons introduced themselves: in the absence of Yun-ChaoHu, Ericsson Germany thanked the floor for his election and Steffen Habermann (T-Mobil), Vice Chairman, introduced himself.

It was noted that some coordination between the three key positions will be required in the future, in order to chair the parallel sessions of two Subgroups.

Tdoc N2-99157

Ian Park's CV. Noted. Elected unopposed.

Tdoc N2-99178

Steffen Habermann's CV. Noted. Elected unopposed.

Tdoc N2-99199

Yun-Chao Hu's CV. Noted. Elected unopposed.

5 WG2 organisation

5.1 Terms of reference and scope

Tdoc N2-99154

ToR were modified by the CN plenary. Any request for variation should be endorsed by the CN plenary, but no objections were raised. Agreed.

Tdoc N2-99156

List of the Specifications to be handled by 3GPP CN. Careful analysis needed, to check WG2 implications. Clarified that 03.97 was approved by SMG#28, although still a draft, and is now under change control. The SS-ad hoc group will work on the open issues and provide quickly inputs to improve the Spec: this view was supported. It was noted that GSM 04.12, 04.64 and 04.65 have not been allocated to the right domain (should be N1, not N2B). GSM 04.67 should be NSS ad hoc; GSM 04.8x, 04.9x should be NSS, not N3; GSM 07.01, 07.02, 07.03, 08.20 should be N3, not NSS; GSM 09.10 should be joint N2B & N1; GSM 09.12, 09.13, 09.14 are ETSI specific and should not be inherited to 3GPP; GSM 09.90, 09.94 not N2.

The SS ad hoc group (NSS) should maintain responsibility for the access signalling for supplementary services. Noted that SS access signalling (GSM 04.8x and 04.9x) should not be allocated to N3 but to NSS.

GSM 09.10 should be a joint responsibility of N2 and N1, as agreed in the previous meeting. Reasonable to separate 09.10 and 09.11, as a consequence of the decisions of maintaining an ad-hoc group on SS. N2 (particularly N2B) will have responsibility on GSM 09.60. GSM 09.78 is clearly pertaining to N2A. GSM 09.90 is listed as a joint responsibility of N1 and N2B, but has nothing to do with N2, similarly for GSM 09.94.

Changes were eventually agreed and will be fed back to the CN Chairman.

5.2 Internal organisation

Tdoc N2-99155

Internal structure of CN2. Modified version of a document agreed in Sophia Antipolis. Subgroup A will deal with MAP and CAMEL. Subgroup B will deal with the remaining issues, e.g. Location Services, SoLSA, Mobile Number Portability, GPRS etc. Document noted.

5.3 Working methods

Tdoc N2-99172

Contribution from NTT DoCoMo. GSM 03.78 and 09.78, as a result of the SMG#28 agreements, are urgently needed. Documents mentioned are well on the way of being prepared. Alcatel proposed to use only one version (7.0.0) for future enhancements of CAMEL, to avoid the confusion generated by multiple CRs to different Releases. As soon as the time for comments has expired, (CRs correctly incorporated) the newly produced Specs will be put on the 3GPP server in a directory under the TSG N2 node. Working docs should be based on v. 7.0.0, even if the decision of freezing 6.3.0 is an issue

for SMG3. By end of March, R98 versions as well should be put on the 3GPP server. Responsibility for maintaining the above Specs in the future is an issue outside this meeting's remit.

The Chairman asked to accept the principle of basing further developments on v. 7.0.0, although not yet stable, but encouraged a strong self criticism on proposing minor corrections, in the perspective of improving stability from the original contributions. The meeting's appreciation for the work of Masami Yabusaki was officially expressed by the Chairman.

6 Contributions related to Release 99

6.1 CAMEL Phase 3

The joint session of the SPS3/3GPP CN2 Subgroup A meeting was opened by Steffen and additional introductory remarks were added by the SPS3 Chairman, in response to questions for clarifications about the objectives of such joint sessions (also in the future). CAMEL Phase 3 was the obvious main focus, but it was recommended to maintain an open and flexible approach, covering other issues that could be planned in the cooperation context.

At the beginning of the second day, the Chairman warned against the potential misunderstanding of entering into too many details, while the objective of the meeting is to stabilize platforms where future work can be grounded.

All the documents not discussed here for lack of time are to be postponed to the next meeting. It is the responsibility of the author to make sure that the document is forwarded to the next meeting: this gives the opportunity to withdraw or modify documents.

It was agreed to have currently no CRs against 03.78 CAMEL phase 3 to be presented at 3GPP CN / SMG but to have an ongoing 03.78 CAMEL phase 3 document where all the proposed changes are incorporated. Incorporation at this early stage does not mean complete agreement yet and further contributions may be required. This document will be reviewed and will become later input to the CR introducing CAMEL phase 3.

6.1.1 Additional DPs

Tdoc N2-99011

Proposed WI for Additional DP Analysed Info, a Stage 1 requirement as indicated by the CN plenary. Accepted as an input technical document. Mannesmann requested guidelines on how to proceed, i.e. an editor and a deadline for the first results. Christiann Homann already volunteered in taking over the rapporteurship of 03.78 for CAMEL Phase 3 and indicated that for the next CN2 meeting the requested document could be produced. The limited time period (a few months) of Rapporteurship for CAMEL Phase 3 caused some concern to Mannesmann, owing to the implication of repeated changes of Rapporteur and the unavoidable transition time.

Christian was asked by the Chairman to translate the technical requirements into CRs to 03.78. Jan Ellsberger (Ericsson) will be the Rapporteur for GSM 09.78.

Tdoc N2-99149

CR to GSM 03.78 n. A080 on Introduction of new DP 3 Analysed Information was presented by Alcatel. Some open issues were identified during the discussion as well as some changes to the SDLs. The Rapporteur proposed to include, where appropriate, Editor's notes under his own responsibility, in order to allow a better tracking of changes. The principles of the document were agreed for inclusion to 03.78 but the CR needed more contributions from the delegates (duly requested by the Vice Chairman) and it was rejected.

It was also agreed that future contributions on CAMEL Phase 3 might have the CR cover sheet, but no CR number, to avoid confusion.

Tdoc N2-99148

CR to GSM 03.78 n. A079 on Introduction of new EDP-Rs and TDP-Rs was presented from Alcatel. The Basic Call State Model was not updated for this contribution, as declared by the Originator. The concept of the contribution was accepted for inclusion to 03.78, but the CR as a whole was rejected.

Tdoc N2-99150

CR to 03.78 A081 on Introduction of MidCall DPs, presented by Alcatel. The need for an LS to SA1 on Midcall DP was identified, and Mannesmann/Siemens volunteered in drafting it (see Tdoc 258). Siemens proposed to maintain the Call Model, keeping out the DP8 box, at least for the time

being. The concept of the contribution was accepted for inclusion to 03.78, but the CR as a whole was rejected.

Tdoc N2-99189

Alcatel proposed to enhance the midcall detection point. It is a new issue, not present in Stage 1 specifications. To avoid wasting time, it would be better to involve SA1 as soon as possible. Further studies on this contribution seemed to be needed.

6.1.2 V-T-BCSM

Tdoc N2-99123

CR to GSM 03.18 v.7.0.0 n. A045 on CAMEL3 VT-BCSM SDLs was presented by Nokia. Principles were discussed first. The principle of Terminating basic call state model was supported by the Chairman. The principles of the document were agreed but additional work seems to be needed. CAMEL should take precedence on standard GSM Call Forwarding, as stated by the Chairman. The document was noted, more work to be done. Remarked that no CR number needed to be allocated.

Tdoc N2-99124

CR (not to be numbered) to GSM 03.78 on CAMEL Phase 3 VT-BCSM SDLs, dealing with the same issues of Tdoc N2-99123 but in relation to a different spec. It was proposed to look at this contribution as a starting point, open to future developments. Christian Homann will take it into account while elaborating the draft specification and further work will be done subsequently.

Tdoc N2-99145

CR to GSM 03.78 n. A077 on support of T-BCSM in the VMSC was presented in great detail by Alcatel for modelling purposes. Siemens requested to postpone conclusions on the basic principle of the document. At the end of a lengthy discussion, sect. 7.4.2 was found the most controversial and concerns were expressed about its inclusion in the specification.

The idea of restoring to life 10.78, dealing with open issues and schedules, was supported by several people from the floor, but some initial work seemed urgent and necessary, due to lack of maintenance for some time. Nortel found that the majority of the content of this document is useful to elaborate the first CAMEL Phase 3 Stage 2 draft. Pragmatically, France Telecom suggested to accept the contribution as it is, as the basis for the work, open to further study. This was supported by the Chairman, with the exclusion of sect. 7.4.2. Siemens objected saying that, if the text had to be taken as it is, they would have some concerns with wording. In this case, the floor was informed that minor wording changes can be communicated directly to the Editor, to speed up the document preparation.

Alcatel eventually declared their availability to include the changes possibly suggested by Siemens, highlighting the source. With this decision, the document will be incorporated in the draft specification.

Tdoc N2-99170

It gives further indications about the introductions of T-BCSM in the VMSC. Noted.

Tdoc N2-99188

CR02.78 A??? on Support of T-BCSM in the VMSC was presented by Alcatel. The spec could be enhanced with the introduction of such issue. Major issues are in sect. 6 with the procedure for Mobile Terminated calls and in the section dedicated to Midcall procedures. The amount of open issues on T-BCSM led to suggest to postpone it. Siemens, furthermore, expressed some disagreement on the notations used. Eventually noted and agreed as SMG1 item.

6.1.3 Additions for MSP

Tdoc N2-99141

Vodafone presented the document. A few additions, including a new Information Element in the Connect message, seemed to be required for MSP Phase 2. Vodafone clarified that Multiple Subscriber Profile (MSP) relates to voice, including Supplementary Services, circuit-switched data, and MO SMS. No studies have been performed yet about the interaction with Multicall. Use of the Alerting Pattern was a first solution to the requirement to notify the called subscriber of the profile for MT calls, but now more efficient solutions should be studied. Clarifications about the complexity of the addition were requested by Siemens.

The intention of Vodafone is to add Service Requirements to CAMEL Phase 3, and suggestions came to keep it as general as possible. Reference to ITU-T Q.1601 was suggested, for interactions with ISDN Supplementary Services. Capabilities provided might avoid work duplication or

cumbersome solutions. The SPS3 Chairman highlighted that mobile application might need a similar document.

Closed User Group is recognised to be a more critical area: if the feature is not supported by the Visited MSC, the call would be terminated. The need for further study was highlighted. In particular, France Telecom did not support the modifications proposed and was puzzled by the overall amount of changes in relation to the interest in the work, which might seriously affect time schedules. FT also clarified that additions to CUG, more than to MSP, cause concern; however, they support the other changes. Companies willing to push the work were encouraged to bring contributions. Vodafone supported introduction of SCF controlled CUG, as well as Siemens.

SMS was discussed last. CAMEL Phase 3 Stage 1, Vodafone said, does not go to the level of detail requested by the contribution. When the discussion tended to concentrate on the Service Aspects, the Chairman recommended to discuss them in a different occasion.

6.1.4 Call Party Handling

Tdoc N2-99143

CAMEL Phase 3 Operation Descriptions for Call Party Handling were presented by Alcatel, with the aim of checking whether the contribution can be an input for the Specification. Alcatel included SCF to give a complete view but their proposal is to exclude it from CAMEL Phase 2 and 3. Siemens agreed about document inclusion but would like to remove some pictures, e.g. those with the SCF. Jan Ellsberger will perform some alignment to GSM 09.78. Mr. Sugiyama (NTT DoCoMo) suggested to revise and enhance Stage 2 Specification on the issue.

Agreed to put it into the draft 09.78 Specification. Contributions to Stage 2 were encouraged.

6.1.5 CSE initiated calls

Tdoc N2-99142

CAMEL Phase 3 Operation Description for InitiateCallAttempt procedure was presented by Alcatel. Before updating Stage 3 Specifications, further developments at the level of Stage 2 seemed to be necessary (the next joint meeting will dedicate 1 entire day to Stage 2). Postponed.

Tdoc N2-99146

Alcatel proposed to postpone it.

Tdoc N2-99147

Alcatel proposed to postpone it.

6.1.6 SMS

Tdoc N2-99138

A contribution on CAMEL Phase 3 SMS was presented by Nokia. It was observed that, in the interest of clarity, it is better to use only SMS terminology in the proposed model. Nokia agreed to rename DPs and renaming of some messages seemed necessary as well. There was a discussion on CS3 stability, also in relation to the history of CS2, but it was clarified that for CS2 the approval procedures were different. France Telecom were reluctant to adopt CUSF for SMS, due to the expected big work of adaptation. The SPS3 Chairman noted that trigger mechanisms needed to be revised as well. CSI structure and SMS identification were identified as open issues by Alcatel and Nortel raised the issue of GPRS alignment. NTT DoCoMo volunteered to bring contributions to the next meeting, and other interested companies were encouraged to do the same.

Tdoc N2-99144

Update of Tdoc 100 on SMS MO, presented by Alcatel. Noted.

6.1.7 Location services

Tdoc N2-99196

Support For Active Location Information Retrieval Using Location Services was presented by Ericsson. Postponed.

Tdoc N2-99197

CR 02.71-??? on Introduction of Active Location Information Retrieval in CAMEL Phase 3 was presented by Ericsson. Postponed.

Tdoc N2-99198

CR 03.71-??? on Introduction of Active Location Information Retrieval in CAMEL Phase 3 was presented by Ericsson. Postponed.

Tdoc N2-99201

CR 03.78-A??? on Introduction of Active Location Information Retrieval in CAMEL Phase 3 was presented by Ericsson. Postponed.

6.1.8 Mobility management

Tdoc N2-99202

Mobility Management in CAMEL Phase 3 was presented by Ericsson. Postponed.

Tdoc N2-99203

CR 02.78-A??? on Mobility Management in CAMEL Phase 3, presented by Ericsson. Postponed.

Tdoc N2-99204

CR 03.78-A087 on Introduction of Mobility Management Triggers in CAMEL Phase 3, presented by Ericsson. Postponed.

Tdoc N2-99205

CR 03.08-A021 on Introduction of Mobility Management Triggers in CAMEL Phase 3, presented by Ericsson. Postponed.

Tdoc N2-99206

CR 03.16-A026 on Introduction of Mobility Management Triggers in CAMEL Phase 3, presented by Ericsson. Postponed.

6.1.9 Congestion control

Tdoc N2-99161

A document on CAMEL phase 3 Congestion control of gsmSCF, presented by Alcatel. Postponed.

6.1.10 SS interactions

Tdoc N2-99162

An Alcatel document titled "CAMEL phase 3 – Per call CSE suppression of supplementary services" was not available.

6.1.11 VHE

Tdoc N2-99173

A Proposal on starting of the study of the usage of lower layer within CAMEL and VHE context was presented by NTT DoCoMo. For discussion by e-mail.

6.1.12 GPRS

Tdoc N2-99207

A document on GPRS interworking with CAMEL was presented by Ericsson. The proposal was already accepted in principle during the Austin meeting. During the discussion, FT requested to introduce one more transition in the state diagram, between PDP_context_setup/context_established and the idle state. It was observed that handover in GPRS is quite different from conventional GSM handover. SPS3 were asked whether they had considered GPRS control of packet switched nodes and the answer was affirmative (references to TIPHON were reported). A change to Attach/Detach was also agreed.

The need for further interactions with SA1 was questioned by the Chairman. Vodafone noticed that the material to incorporate into 03.78 is a subset of Stage 1 requirements, which does not cause any problem. A separate section dedicated to GPRS in GSM 03.78 seemed to be a viable solution. Along this line, there should be also Mobility related handling, SMS handling etc. Siemens supported and proposed that USSD also goes to a separate section. Alcatel raised consequently the point of the links between sections and how they could be kept together. FT agreed, provided it was clearly highlighted that separate sections does not mean optionality.

Tdoc N2-99208

A CR 03.78-A088 on CAMEL Phase 3 Support of GPRS was presented by Ericsson. Agreed to incorporate this in the draft 03.78 for CAMEL phase 3. There are still some things in the stage 1 requirements which have to be covered. Some concern was raised over whether the same name

names if the message contents are different. Frans Haerens said this issue is being handled in SPS3. Siemens asked for thought about the structure of the document: they wanted to keep the GPRS-material relevant to different topics; support from Nortel & Siemens for this point of view. Alcatel asked whether there should be a single common architecture session, or separate ones for GPRS, call

Tdoc N2-99209

CR to 03.08 n. A022 on Introduction of GPRS-CSI in CAMEL Phase 3 was presented by Ericsson.

Tdoc N2-99210

CR 03.16-A027 on
to pass it to SWG-B for further processing.

6.1.13 FIGS

Withdrawn.

6.2. Authentication

Presented by NTT Software. Revised to N2-99214.

Tdoc N2-99214

Revised to N2-99242.

Tdoc N2-99242

MAP_SendIdentification resp. messages should fit into one SCCP message, unsegmented ("white (book)" SCCP cannot be considered for 3G). This restriction puts an upper limit on the possible length

Conclusion: it is necessary to calculate octet capacities of MAP_sendAuthenticationInfo resp. and MAP_SendIdentification resp. messages. Further expansion of N2-99242 is to come (new functionality

6.3

Originally allocated to Subgroup B but a joint session has been provided for the issue.

Tdoc N2-99174

concepts are independent of the GLR one and they are not mutually exclusive. To date, "Turbo- and super-charger" concepts are not as stable within SA2 as the GLR (Nicholas Allen undertakes to write to SA2 (Tdoc N2-99248) in order to ask whether they want to do a feasibility study similar to the

of the scope of the GLR report.

Tdoc N2-99175

whether a GLR is contained in each VPLMN or a common GLR can be shared within one visited country. The originators seem not to have thought about the idea, but they say that even if originally

Anyhow, it was agreed that one GLR can support several HPLMNs.

FT asked whether the GLR is supposed to carry out authentication: the answer was it is not meant triplets remains open. It is also FFS whether the GLR could carry out IMEI checking (raised by NOKIA).

different service levels for the roaming subscriber (how does the GLR handle the control of roaming/service substitution?) - FFS. Alcatel observed that the regional subscription/roaming concept

roaming restriction and the HLR is informed of that, then the HLR would mark the roaming subscriber as not accessible. This means that if the roaming subscriber moves to a permitted zone, location information should be updated in the HLR otherwise the subscriber will not be available for MTC.

Nokia wanted to clarify which percentage of the signalling traffic is supposed to be dealt with by the GLR, and what how much reduction in the signalling traffic is expected when using the GLR. NOKIA remarked that for SolSA only the SIM-Toolkit based solution is considered by the ETR.

Tdoc N2-99216

LS from SA2 on the Gateway Location Register asking CN2 to study the GLR concept, and give guidance on whether it's worth standardising. Noted

6.4 IST for non-CAMEL subscribers

Tdoc N2-99166

A document on IST implementation for non-CAMEL subscribers was presented by Ericsson. Siemens proposed, for simplicity to omit the use of the IST command as stand-alone (the HLR doesn't have to maintain a list of MSCs to which it should send the IST, and MSC doesn't have to trawl through all its records to find a call or calls for the subscriber) without much loss of function. Ericsson believed it is useful to have the stand-alone command to send at least to GMSCs. According to Nortel, WPC should retain the IST stand-alone to provide **immediate** termination. Liaison needed to SMG10 to ask if they can put up with IST only as a response to IST timer alert. Agreed to send the new chapters (4.2 & 6) appended to the LS.

Tdoc N2-99167

IST (Immediate Service Termination): Proposed solution for non-CAMEL subscribers (Ericsson). Re-presentation of the overview already presented in the Hungerford meeting. Noted for information.

6.5 Multicall

Tdoc N2-99113

Technical report on Multicall. Revised to N2-99213.

Tdoc N2-99213

First draft version of a Technical report on Multicall was presented by NTT Communicationware. Supersedes N2-99113. Found that there is potential work related to Call Handling (e.g. 03.18) but more information was found necessary. Further indications on service requirements seemed to be needed. Nortel proposed to note the document and come with comments by the next meeting.

Tdoc N2-99215

Proposal to start Cyber_Meeting on multicall proposal in TSG-CN. Noted.

Tdoc N2-99229

LS on development of multicall in UMTS received from TSG-S1. Noted.

6.6 Pre-paging

Tdoc N2-99176

Draft ETR for pre-paging was presented by NEC for information. Principles of pre-paging were elaborated by SMG12. The contribution represents a first draft, according to the originator, and the discussion should focus on the document structure, first. The intention is to have it as a network option, not on a per-subscriber basis, but the decision whether prepaging can be located in either the VPLMN or the HPLMN is an open issue. Also the interactions with Location Services need to be clarified.

FT commented that a section with advantages and drawbacks, and a feasibility analysis should be provided. This pros and cons analysis applies in principle to all sections. Nortel highlighted the service issue of overall call setup time if pre-paging is followed by post-paging and the impact on mobiles and radio resource occupancy, depending on whether we hold the RR or release the RR and page again.

Contributions in the area are expected for the next meeting. It was agreed to send LS to SA2 to inform them of 3GPP-N2 activity (Tdoc N2-99266).

6.7 Other work items of the Release 99 package

6.7.1 BS/TS Negotiation

Tdoc N2-99110

Withdrawn.

UMTS simultaneous mode

Answer to liaison statement on UMTS simultaneous mode from SMG12. Not discussed; to be brought forward by secretariat.

QoS for packet mode

Withdrawn.

Tdoc N2-99159

DoCoMo. It proposes broadening of WI to packet services in general, and primary responsibility should be with N1. Nokia expressed doubts about the usefulness of such WI. To be handled in SA2,

Tdoc N2-99160

Technical report on QoS control for packet services, presented by NTT DoCoMo. It was proposed for clarification of the status of 22.05, which is the service requirement quoted here. Nokia reported that QoS requirements are still under discussion in SA QoS ad hoc, and proposed that the contribution

6.7.4

Tdoc N2-99115

Information Flows (TTC/ARIB Spec. N. 3): Main Part, presented by TTC WG6-2 & WG6-3.

Tdoc N2-99116

Information Flows (TTC/ARIB Spec. N. 3): Part A presented by TTC WG6-2 & WG6-3. Postponed.

Information Flows (TTC/ARIB Spec. N. 3): Part B presented by TTC WG6-2 & WG6-3. Postponed.

Tdoc N2-99118

Tdoc N2-99152

Information Flows (TTC/ARIB Spec. N. 3): Main Part revised, presented by TTC WG6-2 & WG6-3.

6.7.5 Automatic application execution

Tdoc N2-99120

brought forward by 3GPP secretary.

Tdoc N2-99121

Postponed; needs to be brought forward by 3GPP secretary.

6.7.6 UMTS security

Report of TSG SA WG3 meeting #1 (2-4 Feb 99, London, UK) received from the 3GPP Secretariat. Postponed, needs to be brought forward by 3GPP secretary.

Transcoder control

Technical report on out-of-band transcoder control, presented by NEC. Accepted that the main application is for intra-PLMN use; for inter-PLMN use, a transparent digital channel for the traffic is

needed, as well as the means to signal from the originating to the destination VMSC. LS to SA2 (N2-99264) to advise them of the activity progress.

7 Contributions related to GSM phase 2+ (Release 98)

7.1 Location services

Stephen Edge, representing T1P1.5, presented the status of Location Services in T1P1.5. A very long job to present all the material sent, so no detailed presentation of the Individual Tdocs. Clarified that T1P1.5 expect technical comments upon the CRs that are under CN2 responsibility. Nokia pointed out that the large amount of material makes it suitable to consider the issue during the May meeting (T1P1.5 will meet in the same week), to have a proper amount of time for docs analysis.

WPC will forward comments to T1P1.5 before their April meeting, and they will send back to us their reactions, with possible corrections highlighted in the CR. Changes to our Specs will be dealt with individually, the rest will be commented by e-mail.

Tdoc N2-99134

CR to GSM 03.07 v. 6.1.0 n A005 on Support of VLR and HLR Data Restoration procedures with LCS was submitted by T1P1.5. Recommendation of T1P1 is to carefully review it with Stage 1 Specs in front. Comments to be sent by e-mail to Stephen Edge, in advance of the next T1P1.5 meeting.

Tdoc N2-99135

CR to GSM 03.08 v. 7.0.0 n. A020 on Organization of Subscriber Data in the HLR for LCS. Noted.

Tdoc N2-99136

CR to GSM 03.16 v. 7.0.0 n. A025 on Support of Subscriber Data Management in the HLR and VLR for LCS was submitted by T1P1.5.

Tdoc N2-99137

CR to GSM 09.02 v. 7.0.0 n. A202 on MAP Impacts for Location Services (LCS) was submitted by T1P1.5. MAP vers. 3 seemed to be the reference for this CR. Stephen indicated that, according to his knowledge, raising the version for an existing AC did not seem a concern for our group in this specific case. It was then clarified that WPC has a strong preference for new operations to be confirmed, before introduction. Nokia found that 10 new MAP messages were required for Location Services, a number considered quite high. T1P1.5 provided some justification, and welcomed suggestions on potential number reduction.

Bit encoding for power control, useful to estimate the MS position, seems to be already defined in 04.08 and need not be duplicated here. Constructive comments should be e-mailed to Stephen Edge.

Tdoc N2-99126

GSM 02.71 v1.0.0 Location Services – Service Description – Stage 1, from T1P1.5. Noted.

Tdoc N2-99127

GSM 03.71 v1.0.0 Location Services – Functional Description – Stage 2, from T1P1.5. Noted.

Tdoc N2-99128

GSM 04.71 v1.0.0 Location Services – Formats and coding, from T1P1.5. Noted.

Tdoc N2-99129

GSM 10.71 v1.0.0 Project scheduling and open issues: Location Services, from T1P1.5. Noted.

Tdoc N2-99130

CRs to GSM 01.04, 03.02, 04.07, 04.08, 05.05, 05.10, 08.08, 09.08 on Location Services, from T1P1.5. Noted.

Tdoc N2-99133

CR 03.03-A024 on Addition of new SCCP SSNs for SMLC and GMLC, from T1P1.5. Noted.

7.1 MNP

Tdoc N2-99140

CR n. A204 to GSM 09.02 on Adding of MNP-indicator to the SRI ack proposed by Nokia. Was it agreed that MNP works with all versions of MAP: this feature will work only with version 3. A change to

Stage 2 was identified and the need for further study suggested to postpone the CR. Ericsson requested that the principles of the CR apply to both IN and SRF solutions for MNP.

The principle of including the additional parameter as a MAP user option was agreed and the text will be revised. Postponed to study the implications of the additional text under the MSRN parameter.

Tdoc N2-99158

related functionality was presented by Nokia. Application to cases of direct and indirect routing was discussed. "Cases 4 and 5 are applicable only for direct routing" was the agreed new text. With the

Tdoc N2-99164

of the CR were requested by Siemens, since the title is included in the data base. Revisions were necessary and the category should become D (editorial). New CR (A002r1) created. The ETSI Spec

Revised version (Tdoc 283) was agreed with no need for further discussion.

CR to GSM 03.66 v. 7.0.0 n. A003 on Corrections on MNP was presented by Ericsson. Clarified that there was the intention of allowing Operators to use either direct or indirect routing. To cope with the issue, Nokia dictated the following text: *In order to avoid looping and incompatibility situations, all the GSM PLMNs within a portability cluster shall use the same routing convention, i.e. direct routing, indirect routing or indirect routing with reference to the subscription network* (Siemens disagreed).

The condition for coexistence of direct and indirect routing was formulated as: *As an alternative, indirect routing can interwork successfully with direct routing if the routing number is transferred in the IAM or if dedicated traffic connections are used.*

Further comment to the CR body came from Telia. About the cover sheet, it was clarified that the CR should be a correction (F), subject needs to be changed: Routing conventions in a portability clusters. Revised to Tdoc 284 with these changes. Reason for change was expressed as: *Some clarification is given to avoid incompatibility problems with different routing conventions in the same portability cluster.* Agreed.

Tdoc N2-99200

A proposal for restructuring GSM 03.66 in order to comply with the ETSI standard was presented by the ETSI STF on MNP. Principles for restructuring were accepted and Istvan Kocsi (ETSI MCC) will cooperate with the editors of the various sections, in order to accomplish changes to the structure as well as the CRs approved in the morning.

Tdoc N2-99282

CR 03.66-A001r1 on alignment between 03.66 Part 1 and Part 4 description of call related functionality, presented by Nokia. Agreed with no further presentation.

Tdoc N2-99283

CR 03.66-A002r1 on Editorial clarifications on MNP, presented by Ericsson. Agreed with no further presentation.

Tdoc N2-99284

CR 03.66-A003r1 on routing conventions in a portability cluster, presented by Ericsson. Agreed with no further presentation.

7.3 Other work items of the Release 98 package

7.3.1 GPRS

Tdoc N2-99191

CR 09.60-A050 on IE order correction, presented by Ericsson. Withdrawn.

Tdoc N2-99193

CR 09.60-A052 on Clarification of ambiguous/superfluous information, presented by Ericsson. Agreed and ratified in plenary.

Tdoc N2-99195

CR 09.60-A054 on Timer handling in GTP, presented by Ericsson. Agreed and ratified in plenary.

Tdoc N2-99253

CR 09.60-A055 on Introduction of the PDP-type OSP:IHOSS, presented by Ericsson/Nokia. Agreed and ratified in plenary.

8 Any other business (including GSM phase 2 & Releases 96 & 97)

8.1 CAMEL Phase 2

8.1.1 Stage 1

Tdoc 3C99-265

A CR to 02.78 proposed by Ericsson to improve wording about on-going call. Siemens were in favour of the original wording. Text was changed in order to align Stage 1 with Stage 2 and Stage 3 behaviour. Rejected.

TdocN2-99 122

CR to 02.78 apparently approved by SMG#28. AP to ETSI to check the status of this CR at the last SMG plenary and if North American Equal Access refers to Release '97 or Release '98. This was done and the results were presented to the floor.

The question was raised: how to proceed, since North American Equal Access for CAMEL seems to be incorporated in Release '97. Possible inconsistencies with Stage 2 and 3 were already identified during the meeting. Nortel raised the question of two documentation streams for CAMEL Phase 2, due to the coexistence of Release '97 and Release '98 features. A lengthy debate followed, focused on the differences between Release '97 and Release '98 versions of 03.78. A CR to include NAEA in 03.78 for Release '97 seemed necessary.

8.1.2 Stage 2

Tdoc 3C99-103

CR n. A062 to GSM 03.78 on Follow Up Call. Siemens clarified that the change consists in a correction, aiming at the alignment of Stage 2 and 3. France Telecom requested to stick to really essential changes. As a compromise, it was agreed to reject this CR for CAMEL Phase 2 and to consider it for CAMEL Phase 3, studying it in more detail and to postpone the discussion of CAMEL Phase 3 to Wednesday.

The CR was originally rejected for CAMEL Phase 2 and consequently sent forward to CAMEL Phase 3 discussion. CR principles were then discussed. Nokia requested clarifications about the service to be created with the CR. At the end of a lengthy discussion, the CR was not rejected but further consideration was found necessary. Agreed to produce a LS to SA1 on the issue.

Tdoc 3C99-104

CR n. A063 to GSM 03.78 presented by Siemens. It was agreed to postpone the discussion to Wednesday with the SPS3 experts. Clarifications on the different use of Abandon and Disconnect were given by the SPS3 Chairman, in relation to the existence (or non existence) of a through-connection. During user interaction it seems acceptable that either Abandon or Disconnect can be armed. At the end of the discussion, it was agreed to align GSM 09.78 and 03.78. It was agreed to change the variable name for Phase 2: Call Active will become Answer Received and a revised vers. (see Tdoc 255), with another CR number, was agreed to be produced. Ericsson volunteered in drafting the corresponding CR against 09.78.

Tdoc 3C99-247

CR n. A070 to 03.78, presented by Ericsson as a minor correction (the reference vers. should be in any case 6.3.0). Some textual changes were then agreed. Revised text is in Tdoc N2-99217, which was **approved**.

Tdoc 3C99-248

CR n. A071 to GSM 03.78 presented by Ericsson. Reference to a section needed clarification. The CR for Release '97 is revised in Tdoc N2-99219 and the one for Release '98 in Tdoc N2-99220.

Tdoc 3C99-266

CR 03.78-A073 on Description of the meaning of the Call Active parameter in the ACR operation, presented by Ericsson. Revised to N2-99184.

Tdoc 3C99-275

Tdoc 3C99-281

CR to 03.82 n. A004r4 presented by SMG3 WPB on Modifications to call forwarding due to CAMEL phase 2. The necessity of a companion CR was identified and such CR will be prepared. Revised

Tdoc N2-99105

CR n. A082 to 03.78 presented by Siemens. Alcatel noted that in Austin, WPC had agreed to delete the parameter , which is proposed to be introduced with the CR. The need for its re-introduction was questioned by several delegates. At the end of a lengthy discussion,

Tdoc N299108

CR to GSM 09.78 n. A056 on Send Calculation to CSP correction fell as a consequence of rejection of CR n. A082.

CR to 03.78 n. A075 on Dialed Number String format was presented by Siemens. It was eventually agreed that Stage 2 should reflect Stage 1 specifications, although imperfect. An LS to Siemens.

CR to GSM 03.78 n. A076 on Handling of AC/ACR in DP Busy, DP No Answer and DP Route Select on one SDL diagram, which Siemens agreed to update. CR n. A076r1 will be produced (see Tdoc N2-99231).

Tdoc N2-99180

CR to GSM 03.78 v. 6.3.0 n. A083 on Inclusion of Activity Test IF between gsmSCF & gsmSRF 99181. Agreed and ratified in plenary.

CR to GSM 03.78 v. 6.3.0 n. A073r1 on Description of the meaning of the Call Active parameter in the ACR operation was presented by Ericsson. To be discussed in conjunction with N2-99185. There "active" were found useful and it was agreed to update the CR (Tdoc 236) according to the comments received.

Tdoc N2-99185

CR to GSM 09.78 v. 6.3.0 n. A054r1 on Description of the meaning of the Call Active parameter in Revised (see Tdoc N2-99237).

Tdoc N2-99183

remark was accepted and the CR was agreed with such modification. Revised to Tdoc N2-99238.

Tdoc N2-99186

Some necessary revisions (e.g. figure numbering, HLR handling of non supported IE) were identified. The CR was postponed to the plenary and the revised version is in Tdoc N2-99278. When support. Agreed, but later revised (see Tdoc 278), the revision will be discussed in Sophia Antipolis.

Tdoc N2-99217

CR 03.78-A070r1 on Inclusion of Begin Subscriber Activity information flow was presented by Ericsson. Agreed and ratified in plenary.

Tdoc N2-99218

CR 03.78-A089 on Inclusion of Begin Subscriber Activity information flow, Release 98 version of Tdoc 217. Agreed and ratified in plenary.

Tdoc N2-99219

CR 03.78-A071r1 on Correction on description of Time If Tariff Switch Information Element was submitted by Ericsson. Revision of 3C99-248. Postponed

Tdoc N2-99220

CR 03.78-A090 on Correction on description of Time If Tariff Switch Information Element was submitted by Ericsson. R98 version of Tdoc 219. Postponed.

Tdoc N2-99222

CR 03.82-A004r5 on Modifications to call forwarding due to CAMEL Phase 2 was presented by T-Mobil. Revision of 3C99-281. Postponed, because of the linkage to N2-99223, which was postponed.

Tdoc N2-99223

CR 03.78-A092 on Modifications to call forwarding due to CAMEL Phase 2 was presented by T-Mobil. Postponed for further analysis by Alcatel.

Tdoc N2-99225

CR to GSM 03.78 n. A075r1 on Dialed Number String Format presented by Siemens. Revision of Tdoc N2-99106. Agreed and ratified in plenary. LS to SMG1 produced.

Tdoc N2-99226

CR GSM 03.78-A091 on Inclusion of Alerting Pattern in Provide Roaming Number Information flow was presented by Ericsson. Agreed and ratified in plenary.

Tdoc N2-99231

CR to GSM 03.78 n. A076r1 on Handling of AC/ACR in DP Busy, DP No Answer and DP Route Select was presented by Siemens. Revision of Tdoc N2-99125. Agreed, pending any disagreement until Friday (to allow for a more careful reading) and revised to Tdoc N2-99244.

Tdoc N2-99236

CR 03.78-A073r2 on Description of the meaning of the Call Active parameter in the ACR operation was presented by Ericsson. Revised version of Tdoc N2-99184. Postponed.

Tdoc N2-99238

CR 03.78-A084r1 on Correction of USSD Information flows was presented by Ericsson. Agreed and ratified in plenary.

Tdoc N2-99239

CR to GSM 09.78 n. A042r3 on SCCP was presented by Siemens. Agreed.

Tdoc N2-99244

CR 03.78-A076r2 on AC/ACR handling was presented by Siemens. Agreed.

Tdoc N2-99245

CR 03.18-A044 on Alerting patterns was presented by France Telecom. Agreed, to be ratified in plenary but not available. Postponed.

Tdoc N2-99246

CR 03.18-A043r1 on Alerting patterns was presented by France Telecom. Agreed, to be ratified in plenary but not available. Postponed.

Tdoc N2-99255

CR 03.78-A093 on Renaming of Call Active variable was presented by Siemens. Agreed and ratified in plenary.

Tdoc N2-99271

CR 03.78-A094 on Activity Test information flow was presented by Ericsson. Agreed and ratified in plenary.

Tdoc N2-99278

CR 03.78-A085r1 on Various corrections was submitted by Ericsson. Postponed.

CR to 03.18 v. 6.3.0 n. A043 on Alerting Pattern was presented by France Telecom. Revised to Tdoc N2-99245 which contains CR A043r1.

Stage 3

Tdoc 3C99-032

Tdoc 3C99-267

CR 09.78-A054 on Description of the meaning of the Call Active parameter in the ACR operation was presented by Ericsson. Revised to Tdoc N2-99185.

Tdoc N2-99109

CR to GSM 09.78 n. A042r1 on SCCP was presented by Siemens. Revised CR A042r2 to be produced in Tdoc N2-99232.

Tdoc N2-99107

CR to GSM 09.78 n. A055 on Corrections was presented by Siemens. Minor changes were produced, that do not justify a new Tdoc number. Agreed and ratified in plenary.

Tdoc N2-99108

CR 09.78-A056 on Send Calculation to SCP correction was presented by Siemens. Fell as a consequence of rejecting Tdoc N2-99105.

Tdoc N2-99131

DEN/SPS-03053-1 V0.5.0 (1999-02-22) CAMEL Phase 2 was introduced by Alcatel. Presented at this meeting for information, and comments were urged. Proposed that WPC approves the document at the April meeting in Sophia and send it to public enquiry. SPS approval of this document should be requested before SMG approval. At the Public Enquiry resolution meeting, the presence of WPC delegates would be very useful. Clarified that WPC could also approve it during this meeting, even if changes might be produced for the meeting in April. With this clarification, the document was approved. It will be highlighted again with SPS3. Alcatel will trigger sending of this document (from the ETSI Secretary) to SMG3.

Final ratification from WPC in May, during the meeting in Edinburgh.

Tdoc N2-99132

DEN/SPS-03053-2 V0.5.0 (1999-02-22) CAMEL Phase 2 was introduced by Alcatel. Approved. The same procedure identified for N2-99131 applies. Alcatel will trigger sending of this document (from the ETSI Secretary) to SMG3.

Tdoc N2-99179

CR to 09.02 n. A207 on Clarification in ASN.1 encoding of O-CSI and T-CSI was presented by Ericsson. The CR was approved by Subgroup B. Agreed. The corresponding CR n. A211 to vers. 7.0.0 was agreed as well (Tdoc N2-99233). Both ratified in plenary.

Tdoc N2-99181

CR to 09.78-A057 on Activity Test information flow was presented by Ericsson. Agreed and ratified in plenary.

Tdoc N2-99182

CR to GSM 09.02 v. 6.3.0 n. A208 on Correction of USSD errors was presented by Ericsson. The CR was approved with some changes by Subgroup B, which was requested to clarify the text, describing the meaning of the optional indication. Revised CR n. A208r1 is in Tdoc N2-99234.

Tdoc N2-99185

CR 09.78-A054r1 on Description of the meaning of the Call Active parameter in the ACR operation was submitted by Ericsson. Revision of 3C99-267. Nokia raised concerns over the optionality of parameter of the ProcessUnstructuredSS-Request result component; they were asked to resolve this concern by Friday, but were unable to do so. The document was postponed to Edinburgh.

Tdoc N2-99187

CR to GSM 09.78 v. 6.3.0 n. A058 on Various Corrections was presented by Ericsson. Some changes were agreed and the revised version (A058r1) was produced in Tdoc N2-99240.

Tdoc N2-99232

CR 09.78-A058 on Various corrections was presented by Ericsson. Revised to N2-99239.

Tdoc N2-99233

CR 09.02-A211 on Clarification in ASN.1 encoding of O-CSI and T-CSI was presented by Siemens. Agreed and ratified in plenary.

Tdoc N2-99239

CR 09.78-A042r3 on SCCP was presented by Siemens. Agreed and ratified in plenary.

Tdoc N2-99240

CR 09.78-A058r1 on Various corrections was submitted by Ericsson. Postponed.

Tdoc N2-99257

CR 09.02-A213 on Introduction of MSISDN in USSD operation was presented by Siemens. Nortel had a concern that the current version of the CR mandates the use of the MSISDN on the HLR. Agreed to revise it to show that it's HLR operator option to send MSISDN to the SCF. Revised to 270.

Tdoc N2-99270

CR 09.02-A213r1 on Introduction of MSISDN in USSD operation was presented by Siemens. Revised version of 257; agreed and ratified in plenary.

Tdoc N2-99269

CR 09.02-A215 on Introduction of MSISDN in USSD operation was presented by Siemens. R98 equivalent of 270; agreed, and ratified in plenary.

Tdoc N2-99272

Release 98 equivalent of Tdoc N2-99181. Withdrawn.

Tdoc 3C99-043

CR 09.02-A177 on General Bearer Services in the VLR was presented by Siemens. Proposes to define VLR behaviour so that if the HLR sends code for general data bearer service the VLR deletes any specific data rate services in the same group; this saves sending the SS data for the group all over again. Ericsson disagrees because it affects existing implementations which work. Siemens proposal to put in the change for R97 only was not enthusiastically received, because of cross-phase problems. The CR was rejected. Masami Yabusaki asked whether there's a requirement for HSCSD in 3G systems; he'll try to find out, and draft a liaison statement to SA1 if necessary; see N2-99263.

Tdoc 3C99-090

CR 09.60-A041 on PDP context establishment & restoration, Presented by Nokia and withdrawn.

Tdoc 3C99-241

CR 03.08-A018 on Corrections to text to introduce barring of PDP context activation for GPRS. Presented by BT and withdrawn.

Tdoc 3C99-243

CR 03.15-A006 on Corrections to text to introduce barring of PDP context activation for GPRS was presented by Motorola and withdrawn.

Tdoc 3C99-244

CR 03.60-A??? on improving the data loss-less inter-SGSN RA update was presented by Motorola and withdrawn.

Tdoc 3C99-245

CR 09.60-A047 on Replacing the V(R) transfer mechanism with the N-PDU transfer mechanism in routing area update was presented by Motorola and withdrawn.

Tdoc 3C99-249

LS on Codepoint for PDP type OSP:IHOSS was received from SMG4. Agreed to draft a CR; Ericsson and Nokia will produce it.

Tdoc N2-99119

LS on endorsed GPRS CRs to GSM 03.03, received from SMG12. Noted. Ericsson volunteered to check the implementation of the corresponding 09.02 CR.

Tdoc N2-99163

CR 03.60-A1?? on Introduction of HPLMN Address Allowed flag was presented by Motorola for information. Noted.

Tdoc N2-99171

LS on Comments on CR 09.60-A031r2 on Use of 3-digit MNC – Tdoc SMG3 3C99-105 submitted by T1P1.5, in order to align the coding for 3-digit MNCs with GSM 04.08. WG2 accepted the principle, but the CR should be approved before going to SMG #29. Nortel will draft LS (Tdoc N2-99260) in response.

Tdoc N2-99177

CR 03.15-A007 on Corrections to text to introduce barring of SMS calls for GPRS presented by Motorola. Revised to N2-99254 which was agreed without further presentation.

Tdoc N2-99190

CR 09.60-A049 on IE order correction was submitted by Ericsson and withdrawn.

Tdoc N2-99192

CR 09.60-A051 on Clarification of ambiguous/superfluous information was submitted by Ericsson and withdrawn.

Tdoc N2-99194

CR 09.60-A053 on Timer handling in GTP, presented by Motorola. Agreed and ratified in plenary.

Tdoc N2-99254

CR 03.15-A007r1 on Corrections to text to introduce barring of SMS calls for GPRS was presented by Motorola. Agreed and ratified in plenary.

Tdoc N2-99259

CR 09.10-A009 on GPRS ATTACH Reject cause when 'IMSI Unknown' was presented by Vodafone. Agreed and ratified in plenary.

Tdoc N2-99261

CR 09.02-A0214 on Clarification of use of Complete Data Included flag was submitted by Nortel. It was postponed to the Edinburgh meeting to allow further analysis.

Tdoc N2-99139

CR 09.02-A203 on Adding of MAP_DELIMITER_req to the Status Report operation was presented by Nokia. Revised to make output of MAP_DELIMITER optional. New version in 249; corresponding R98 in 250.

Tdoc N2-99249

CR 09.02-A203r1 on Adding of MAP_DELIMITER_req to the Status Report operation, presented by Nokia. Revision of 139. Agreed and ratified in plenary.

Tdoc N2-99250

CR 09.02-A212 on Adding of MAP_DELIMITER_req to the Status Report operation, presented by Nokia. R98 equivalent of 249. Agreed and ratified in plenary.

Tdoc N2-99168

misalignment between 04.80, which imports 2 data types from MAP, and 09.02, which does not export them. Agreed and ratified in plenary.

ASCI

CR 09.02-A206 on Use of the E-interface was present by Siemens. Replaces "To be continued in next version" statement for use of the E-interface for inter-MSC VBS & VGCS with statement that it's

Tdoc N2-99227

CR 09.02-A209 on Use of E interface, presented by Siemens. R98 equivalent of 169; agreed and

8.7

Tdoc N2-99228

CR 09.02-A210 on New subscription option for Call Forwarding was presented by Siemens and

9 Approval of output documents (other than CRs already agreed under

9.1

Tdoc N2-99224

LS to S1 on CAMEL triggering criteria presented by Vodafone. It is not appropriate to destabilise a health warning about the nature of the sent back number (that might not be international or unknown format). For Phase 3 more complex handling is proposed. Agreed.

Liaison statement to TSG-S2 on Turbocharger & Supercharger was presented by Nortel. Agreed

Tdoc N2-99252

a text that WG2 do not propose to add modifications to CAMEL Phase 2. It was also requested to SA1 to check whether they identify service requirements that might lead to changes in the handling.

Tdoc N2-99258

Liaison Statement on Service Requirements for DTMF user interaction, presented by

Tdoc N2-99263

Liaison statement to S1 on standardisation of HSCSD for UMTS. Presented by M. Yabusaki.

of response are for the May CN2 meeting. LS could be provided as an input to the CN plenary, who might decide whether to send it to SA1. Restructuring needed.

Tdoc N2-99264

Liaison statement to TSG S2 on out of band transcoder control, by NEC. Agreed.

Liaison statement to SA2 (cc SA1 & N1) on pre-paging, by NEC/Fujitsu. Some change in wording: *Technical report* *feasibility report*. Revised to N2-99277.

Tdoc N2-99241

LS to SMG10 on IST (Immediate Service Termination) for non-CAMEL subscribers. Siemens raised the question whether somebody has considered traffic issues at the HLR. The Chairman is

available to re-draft the LS, to take into account the Siemens comment. BT observed that an additional IST mechanism might be required, since not all networks might support even CAMEL Phase 1.

The LS will be revised (247) and approved first by Subgroup B before re-iterating it to WPC.

Tdoc N2-99247

Revision of Tdoc N2-99241. Aim is to send it by fax, if approved, during the morning 24th March, to reach SMG10 in time. It was clarified that the private conversation mentioned in the paper was originated by M. Walker, the SMG10 Chairman, not speaking on behalf of SMG10. Siemens asked to specify that the Timer is under HLR control, although Ericsson noted that the Timer concept is still FFS. Nortel proposed to add a sentence indicated that open technical issues still exist. At the end of the debate, it was agreed to send the LS with editorial changes.

Tdoc N2-99260

LS to T1P1.5 on 3-digit MNC. Agreed. To be sent to the SMG3 mailing list for approval before it is sent to the destination committee.

Tdoc N2-99267

LS from Nokia. Agreed. To be sent to the SMG3 mailing list for approval before it is sent to the destination committees.

10 Review of dates and hosts for future meetings

Tdoc N2-99268

The vice-chairman presented the proposed agenda for the joint SSPS3/SMG3 WPC/N2A meeting, 12 – 14 April. Two days have been allocated during the next SPS3 meeting in Sophia Antipolis for CAMEL Phase 3 and related issues (Tuesday 13th and Wednesday 14th). Clarified that the meeting is remitted to take decisions, not to send Liaison Statements, which must be ratified by the whole Working Group. Nortel requested to see a more detailed Agenda.

The Chairman clarified that e-mail does not give certainty of reaching all delegates, hence it must not be used as a replacement of face to face meeting, unless decision for correspondence has been agreed during a meeting. It was also reminded that the minimum time to convene a meeting is 4 weeks.

The scope of the meeting should not include Subgroup B: there is no need for an intermediate Subgroup B meeting. However, Mr. Yabusaki's believed that an N2B meeting is necessary before the Edinburgh meeting, since pre-paging has a lot of implications, e.g., on MAP. Japan would also want to discuss the GLR and out-of-band transcoder control (Subgroup B).

Proposal: Three days in the latter part of the week 26th April - 30th April (Tuesday to Thursday) for Subgroup B. Neither Chairman nor Vice Chairman could participate (clash of meetings: the TSG-N plenary meeting is in Japan, 21 ÷ 23 April). It was accepted that the meeting would be in Tokyo, hosted by NEC, 27 - 29 April. Scope: primarily to progress the feasibility reports listed above.

15 April until 16 April morning: N2A meeting on CAMEL Phase 3.

WG2 September meeting: NEC Japan will host the meeting near Tokyo. For the November meeting, a host is still needed, possibly from the USA.

Agreed to define the exact length of the meetings, after the Edinburgh meeting, considering the remaining work. The N2 meeting in Sophia will be closed at lunch time Friday.

11 Closing of the meeting

The following documents are postponed to May:

185; 219; 220; 222; 223; 228; 236; 240; 245; 246; 256; 278.

Concerning 03.78 it will be proposed to WOME that 03.78 version 6.3.0 will be the CAMEL Phase 2 Specification and that there will not be a version 7.0..0. The Release '97 version will be improved with the inclusion of CLI enhancements clearly indicating that this is a Release '98 feature.

BT proposed to create protection for the 3GPP server: AP to the ETSI secretary to check what will be the procedure and when it will be put in action.

Joint Meeting

22 - 26 March 1999

ANNEX A

DRAFT AGENDA

- 1 Opening of the meeting and approval of the agenda **(09:00 Monday)**
- 2 Introduction & grouping of contributions; allocation of a working session for each subject
- 3 Reports
Review of reports from Austin (Jan 1999) & Sophia Antipolis (Feb 1999) meetings
Report back from SMG3 plenary, Jan 1999, and TSG-CN plenary, Mar 1999
- 4 Election of WG2 Chairman and Vice-Chairmen
- 5 WG2 organisation
Terms of reference and scope
Internal organisation
Working methods
- 6 Contributions related to Release 99
CAMEL Phase 3
Stage 1 issues
Stage 2 issues
Stage 3 issues
Authentication
The Gateway Location Register
IST for non-CAMEL subscribers
Multicall
Pre-paging
Other work items of the Release 99 package
- 7 Contributions related to GSM phase 2+ (Release 98):
Location services
MNP
Other work items of the Release 98 package
- 8 Any other business (including GSM phase 2 & Releases 96 & 97)
- 9 Approval of output documents (other than CRs already agreed under earlier agenda items)
WG2 outputs
WP'C' outputs
- 10 Review of dates and hosts for future meetings
- 11 Closing of the meeting **(15:30 Friday)**

The proposed time plan is attached; a separate contribution showing the proposed allocation of documents to agenda items will be tabled at the beginning of the meeting.

According to the internal structure agreed by CN plenary, WG2 will be subdivided into two subgroups. Subgroup A will deal with CAMEL and the basic call stage 2; subgroup B will deal with MAP, GTP,

reference model, interactions between CAMEL and GPRS and interworking with access signalling protocols will be handled jointly by subgroups A and B. The specific agenda topics have been topic will be allocated to the appropriate subgroup during the discussion on agenda item 2.

In a break with previous practice, there is no attempt to schedule in advance the business during the

- SPS3 experts are expected to join subgroup A for the CAMEL discussions on Wednesday and Thursday;
- T1P1 experts are expected to join the plenary session on Friday to discuss a set of contributions from T1P1 on location services. These contributions are seen as being GSM-specific.

At the time of drafting, SMG have not yet decided on whether there should be a complete transfer to 3GPP of responsibility for maintenance of GSM specifications for Release 98 and earlier. Accordingly, SMG3 WP'C' are assumed to be responsible for this maintenance work. Friday will be dedicated to GSM-specific business, including the approval of any change requests for the maintenance of GSM specifications.

WG2 outputs from this meeting are expected to consist only of liaison statements. These have to be agreed by WG2 as a whole; the 3GPP working procedures do not allow subgroups to send liaison statements to other bodies directly.

	Monday	Tuesday	Wednesday	Thursday	Friday
9:00 Session 1 10:30	Opening business (1,2) Elections (4) – first round Reports (3)	SWGA (6.1, 6.5, 6.6)	SWGA (6.1, 6.5, 6.6)	SWGA (6.1, 6.5, 6.6)	Location Services (7.1)
		SWGB (6.2, 6.3, 6.4)	SWGB (6.2, 6.3, 6.4)	SWGB (6.2, 6.3, 6.4)	
Break					
11:00 Session 2 12:30	Elections (4) – second round (if necessary) WG2 organisation (5)	SWGA (6.1, 6.5, 6.6)	SWGA (6.1, 6.5, 6.6)	SWGA (6.1, 6.5, 6.6)	MNP (7.2) Other Release 98 (7.3) AOB (8)
		SWGB (6.2, 6.3, 6.4)	SWGB (6.2, 6.3, 6.4)	SWGB (6.2, 6.3, 6.4)	
Break					
14:00 Session 3 15:30	SWGA (6.1, 6.5, 6.6)	SWGA (6.1, 6.5, 6.6)	SWGA (6.1, 6.5, 6.6)	SWGA (6.1, 6.5, 6.6)	Approval of WP'C' outputs (9.2) Closing business (11) N.B. 15.30 Finish!
	SWGB (6.2, 6.3, 6.4)	SWGB (6.2, 6.3, 6.4)	SWGB (6.2, 6.3, 6.4)	SWGB (6.2, 6.3, 6.4)	
Break					
16:00 Session 4 17:30	SWGA (6.1, 6.5, 6.6)	SWGA (6.1, 6.5, 6.6)	SWGA (6.1, 6.5, 6.6)	Approval of WG2 outputs (9.1)	
	SWGB (6.2, 6.3, 6.4)	SWGB (6.2, 6.3, 6.4)	SWGB (6.2, 6.3, 6.4)	Review of hosts & dates (10)	

Annex B

3GPP TSG N WG2
ETSI SMG3 WPC meeting
Issy-les-Moulineaux, France
22 - 26 March, 1999

List of participants

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List of Temporary Documents

Tdoc n°	Title	Source	Status
3C99-032	CR n. A042 to GSM 09.78 on SCCP	Siemens	Revised (109)
3C99-043	CR n. A177 to 09.02 on General Bearer services in the VLR	Siemens	Reject
3C99-090	CR n. A041 to GSM 09.60 v. 6.2.2 on PDP context establishment and restoration	Nokia	Withdrawn
3C99-103	CR to GSM 03.78 v. 6.2.0 n. A062 on Follow Up Call	Siemens	LS product
3C99-104	CR to GSM 03.78 v.6.2.0 n. A063 on Correction of Abandon handling	Siemens	Revised (255)
3C99-241	CR n. A018 to 03.08 on Corrections to text to introduce barring of PDP context activation for GPRS	BT	Withdrawn
3C99-243	CR n. A006 to 03.15 v. 6.0.0 on Corrections to text to introduce barring of PDP context activation for GPRS	Motorola	Withdrawn
3C99-244	CR to 03.60 on Improving the user data loss-less inter-SGSN RA update	Motorola	Withdrawn
3C99-245	CR A047 to 09.60 on Replacing the V(R) transfer mechanism with the N-PDU transfer mechanism in routing area update	Motorola	Withdrawn
3C99-247	CR to 03.78 on Inclusion of Begin Subscriber Activity information flow	Ericsson	Revised (517)
3C99-248	CR to 03.78 on Correction on description of Time If Tariff Switch Information Element	Ericsson	Revised (219)
3C99-249	LS from SMG4 on Codepoint for PDP type OSP:IHOSS	SMG4	CR to product
3C99-265	CR to 02.78 on Clarification of data to be reported in the charging report to the CSE	Ericsson	Reject
3C99-266	CR to 03.78 n.A073 on Description of the meaning of the Call Active parameter in the ACR operation.	Ericsson	Revised N2-991
3C99-267	CR to 09.78 on Description of the meaning of the Call Active parameter in the ACR operation	Ericsson	Withdrawn
3C99-275	CR n. A074 to 03.78 v. 6.3.0 on Inclusion of Alerting pattern in Provide Roaming Number	Ericsson	Agree
3C99-281	CR to 03.82 n A004r4 to Modifications to call forwarding due to CAMEL Phase 2	SMG3 WPB	Revised N2-993
3C99-311	Proposed Work Item for CAMEL STAGE2: Addition of analyzed_Info DP	TTC SWG621	Note
3C99-401 N2-99 101	Agenda	Ian Park	Agree
3C99-402 N2-99 102	Document allocation to Agenda Items	Ian Park	Note
3C99-403 N2-99 103	Sophia Antipolis WPC meeting report	Franco Settimo	Approv
3C99-404 N2-99 104	Sophia Antipolis joint WPC/CN2 meeting report	Franco Settimo	Approv
3C99-405 N2-99 105	CR to GSM 03.78 n. A082 on Send Calculation to SCP correction	Siemens	Reject
3C99-406 N2-99 106	CR to GSM 03.78 n. A075 on Dialed Number String Format	Siemens	Revised (225)
3C99-407 N2-99 107	CR to GSM 09.78 n. A055 on Corrections	Siemens	Agree
3C99-408 N2-99 108	CR to GSM 09.78 n. A056 on Send Calculation to CSP correction	Siemens	Reject
3C99-409 N2-99 109	CR to GSM 09.78 n. A042r1 on SCCP	Siemens	Revised (232)
3C99-410 N2-99 110	Technical Report on Bearer service and Teleservice Negotiation/Modification and Tandem Free Operation Enhancement	NEC Japan	Withdrawn
3C99-411 N2-99 111	Answer to Liaison statement on UMTS Simultaneous Mode from SMG12	TSG-SA WG1	Not discuss

3C99-412 N2-99 112	IMT-2000 QoS Parameters for Packet Services	NTT DoCoMo	Withdra
3C99-413 N2-99 113	Technical Report on Multicall	NTT Software	Replace 3C99-5
3C99-414 N2-99 114	Technical Report on Authentication	NTT Software	Revised to 9921.
3C99-415 N2-99 115	Information Flows (TTC/ARIB Spec. No.3) Main Part	TTC WG6-2 & 6-3	Revised 252)
3C99-416 N2-99 116	Information Flows (TTC/ARIB Spec. No.3) Part A	TTC WG6-2 &	Postpor
3C99-417 N2-99 117	Information Flows (TTC/ARIB Spec. No.3) Part B	TTC WG6-2 &	Postpor
3C99-418 N2-99 108	Information Flows (TTC/ARIB Spec. No.3) Part C	TTC WG6-2 &	Postpor
3C99-419 N2-99 119	LS on Endorsed CRs to GSM 03.03	SMG12	Note
3C99-420 N2-99 120	LS from SMG AAE (Applications and Automatic Execution Workshop)	SMG AAE	Postpor
3C99-421 N2-99 121	A Generic Model For The Ms Application Execution <u>Environment</u>	SMG AAE	Postpor
3C99-422 N2-99 122	CR to GSM 02.78 v. 6.1.0 A038r1 on Addition of North American Carrier related Information to CAMEL Ph 2	SMG#28	
3C99-423 N2-99 123	CR to GSM 03.18 v.7.0.0 n. A045 on CAMEL3 VT-BCSM SDLs	Nokia	FFS
3C99-424 N2-99 124	03.78 CAMEL3 VT-BCSM SDLs	Nokia	Note
3C99-425 N2-99 125	CR to GSM 03.78 n. A076 on Handling of AC/ACR in DP Busy, DP No Answer and DP Route Select	Siemens	Revised 231)
3C99-426 N2-99 126	GSM 02.71 v. 1.0.0 Location Services - Service Description - Stage 1	T1P1.5	Note
3C99-427 N2-99 127	GSM 03.71 v. 1.0.0 Location Services - Functional Description - Stage 2	T1P1.5	Note
3C99-428 N2-99 128	GSM 04.71 v. 1.0.0 Location services - Formats and coding	T1P1.5	Note
3C99-429 N2-99 129	GSM 10.71 v. 1.0.0 Project scheduling and open issues: Location Services	T1P1.5	Note
3C99-430 N2-99 130	CRs to GSM 01.04, 03.02, 04.07, 04.08, 05.05, 05.10, 08.08, 09.08 on Location Services	T1P1.5	Note
3C99-431 N2-99 131	DEN/SPS-03053-1 V0.5.0 (1999-02-22) CAMEL Phase 2	Alcatel	Approv
3C99-432 N2-99 132	DEN/SPS-03053-2 V0.4.0 (1999-02-22) CAMEL Phase 2	Alcatel	Approv
3C99-433 N2-99 133	CR to GSM 03.03 v. 7.0.0 n. A024 on Addition of new SCCP SSNs for SMLC and GMLC	T1P1.5	FFS
3C99-434 N2-99 134	CR to GSM 03.07 v. 6.1.0 n A005 on Support of VLR and HLR Data Restoration procedures with LCS	T1P1.5	FFS
3C99-435 N2-99 135	CR to GSM 03.08 v. 7.0.0 n. A020 on Organization of Subscriber Data in the HLR for LCS	T1P1.5	FFS
3C99-436 N2-99 136	CR to GSM 03.16 v. 7.0.0 n. A025 on Support of Subscriber Data Management in the HLR and VLR for LCS	T1P1.5	FFS
3C99-437 N2-99 137	CR to GSM 09.02 v. 7.0.0 n. A202 on MAP Impacts for Location Services (LCS)	T1P1.5	FFS
3C99-438 N2-99 138	CAMEL3 SMS	Nokia	FFS
3C99-439 N2-99 139	CR n. A203 to GSM 09.02 on Adding of MAP_DELIMITER_req to the Status Report operation	Nokia	Revised 249)
3C99-440 N2-99 140	CR n. A204 to GSM 09.02 on Adding of MNP-indicator to the SRI ack	Nokia	Postpor
3C99-441 N2-99 141	MSP Phase 2 requirements on CAMEL Phase 3	Vodafone	FFS
3C99-442 N2-99 142	CAMEL Phase 3 Operation Description for InitiateCallAttempt procedure	Alcatel	Postpor
3C99-443 N2-99 143	CAMEL Phase 3 Operation Descriptions for Call Party Handling	Alcatel	Postpor
3C99-444 N2-99 144	CAMEL Phase 3 State Model for mobile originating Short Message Service	Alcatel	Note
3C99-445 N2-99 145	CR to GSM 03.78 n. A077 on support of T-BCSM in the VMSC	Alcatel	Approv

3C99-446 N2-99 146	CR to GSM 03.18 n. A042 on introduction of CSE Created Call	Alcatel	Postpor
3C99-447 N2-99 147	CR to GSM 03.78 n. A078 on introduction of CSE Created Call	Alcatel	Postpor
3C99-448 N2-99 148	CR to GSM 03.78 n. A079 on introduction of new EDP-Rs and TDP-Rs	Alcatel	Reject
3C99-449 N2-99 149	CR to GSM 03.78 n. A080 on Introduction of new DP 3 Analysed Information	Alcatel	Reject
3C99-450 N2-99 150	CR03.78 A081 on Introduction of MidCall DPs	Alcatel	LS produ
3C99-451 N2-99 151	Report of TSG-CN #2 (Fort Lauderdale)	J. Meredith	Note
3C99-452 N2-99 152	Information Flows (TTC/ARIB Spec. No.3) Main Part Revised	TTC WG6-2 & 6-3	Postpor
3C99-453 N2-99 153	Summary report of TSG-N plenary meeting	Ian Park	Note
3C99-454 N2-99 154	Terms of Reference for TSG-N WG2	Ian Park	Agree
3C99-455 N2-99 155	Internal Structure of TSG-N WG2	Ian Park	Note
3C99-456 N2-99 156	Specifications in TSG_CN version 1 (15.03.1999)	CN Chairman	Agreed 'chang
3C99-457 N2-99 157	Candidate chairman (/ vice-chairman) WG-CN2 - Ian Park	Vodafone	Note
3C99-458 N2-99 158	CR to 03.66 v7.0.0 n. A001 on Alignment between 03.66 Part 1 and Part 4 description of call related functionality	Nokia	Revised (282)
3C99-459 N2-99 159	Proposed change of the WI, QoS control for asymmetric bearer for packet services	NTT DoCoMo	To be har by SA
3C99-460 N2-99 160	Technical Report on QoS Control for Packet Services	NTT DoCoMo	To be hand SA-QoS a
3C99-461 N2-99 161	CAMEL phase3-Congestion Control of gsmSCF	Alcatel	Postpor
3C99-462 N2-99 162	CAMEL phase3-Per call CSE suppression of supplementary services	Alcatel	Not avail
3C99-463 N2-99 163	CR to GSM 03.60 n. A1xx on Introduction of HPLMN Address Allowed flag	Motorola	Note
3C99-464 N2-99 164	CR to GSM 03.66 v. 7.0.0 n. A002 on Corrections on MNP	Ericsson	Revised (
3C99-465 N2-99 165	CR to GSM 03.66 v. 7.0.0 n. A003 on Corrections on MNP	Ericsson	Revised (
3C99-466 N2-99 166	IST implementation for non-CAMEL Subscribers	Ericsson	LS produ
3C99-467 N2-99 167	IST (Immediate Service Termination): Proposed solution for non-CAMEL subscribers	Ericsson	Note
3C99-468 N2-99 168	CR to 09.02 v6.3.0 A205 on Alignment with 04.80	Siemens	Agree
3C99-469 N2-99 169	CR to 09.02 v6.3.0 A206 on Use of E-interface	Siemens	Agree
3C99-470 N2-99 170	Support of T-BCSM in the VMSC	Alcatel	Note
3C99-471 N2-99 171	Comments on CR A031r2 - Use of 3-digit MNC - Tdoc SMG3 3C99-105	T1.P1.5	LS will produc
3C99-472 N2-99 172	Clarification on the base document for CAMEL specification	NTT DoCoMo	Note
3C99-473 N2-99 173	Proposal on starting of the study of the usage of lower layer within CAMEL and VHE context	NTT DoCoMo	Discussed mail
3C99-474 N2-99 174	Signalling Optimisation in Roaming Scenarios	Nortel Networks	Note
3C99-475 N2-99 175	Draft ETR for the Gateway Location Register	NEC UK	Note
3C99-476 N2-99 176	Draft ETR for pre-paging	NEC UK	LS produ (see 2f
3C99-477 N2-99 177	CR to GSM 03.15 v. 6.0.0 n. A007 on Corrections to text to introduce barring of SMS calls for GPRS	Motorola	Revised (254)
3C99-478 N2-99 178	Nomination for Vice Chairman of TSG CN WG2	T-Mobil	Note
3C99-479 N2-99 179	CR to GSM 09.02 v.6.3.0 n. A207 on Clarification in ASN.1 encoding of O-CSI and T-CSI	Ericsson	Agree

3C99-480 N2-99 180	CR to GSM 03.78 v. 6.3.0 n. A083 on Inclusion of Activity Test IF between gsmSCF & gsmSRF and gsmSCF and assistSSF	Ericsson	Agree
3C99-481 N2-99 181	CR to GSM 09.78 v. 6.3.0 n. A057 on Inclusion of Activity Test IF between gsmSCF & gsmSRF and gsmSCF and assistSSF	Ericsson	Agree
3C99-482 N2-99 182	CR to GSM 09.02 v. 6.3.0 n. A208 on Correction of USSD errors	Ericsson	Revised (
3C99-483 N2-99 183	CR to GSM 03.78 v. 6.3.0 n. A084 on Correction of USSD Information flows	Ericsson	Revised (238)
3C99-484 N2-99 184	CR to GSM 03.78 v. 6.3.0 n. A073r1 on Description of the meaning of the Call Active parameter in the ACR operation	Ericsson	Revised (236)
3C99-485 N2-99 185	CR to GSM 09.78 v. 6.3.0 n. A054r1 on Description of the meaning of the Call Active parameter in the ACR operation	Ericsson	Revised (237)
3C99-486 N2-99 186	CR to GSM 03.78 v. 6.3.0 n. A085 on Various Corrections	Ericsson	Revised (278)
3C99-487 N2-99 187	CR to GSM 09.78 v. 6.3.0 n. A058 on Various Corrections	Ericsson	Revised (240)
3C99-488 N2-99 188	CR02.78 A??? on Support of T-BCSM in the VMSC	Alcatel	Postpor
3C99-489 N2-99 189	Considerations on Mid Call Detection Point and CPH	Alcatel	FFS
3C99-490 N2-99 190	CR to 09.60 v. 6.3.0 n. A049 on IE order correction	Ericsson	Withdra
3C99-491 N2-99 191	CR to 09.60 v. 7.0.0 n. A050 on IE order correction	Ericsson	Withdra
3C99-492 N2-99 192	CR to 09.60 v. 6.3.0 n. A051 on Clarification of ambiguous/superflous information	Ericsson	Withdra
3C99-493 N2-99 193	CR to 09.60 v. 7.0.0 n. A052 on Clarification of ambiguous/superflous information	Ericsson	Agree
3C99-494 N2-99 194	CR to 09.60 v. 6.3.0 n. A053 on Timer handling in GTP	Ericsson	Agree
3C99-495 N2-99 195	CR to 09.60 v. 7.0.0 n. A054 on Timer handling in GTP	Ericsson	Agree
3C99-496 N2-99 196	Support For Active Location Information Retrieval Using Location Services	Ericsson	Postpor
3C99-497 N2-99 197	CR to 02.71 v. 1.0.0 on Introduction of Active Location Information Retrieval in CAMEL Phase 3	Ericsson	Postpor
3C99-498 N2-99 198	CR to 03.71 v. 1.0.0 on Introduction of Active Location Information Retrieval in CAMEL Phase 3	Ericsson	Postpor
3C99-499 N2-99 199	Candidate for the position of 3GPP TSG CN WG 2 vice chairman	Ericsson	Note
3C99-500 N2-99 200	Proposal for the modification of GSM 03.66 V7.0.0	ETSI STF on MNP	Approv
3C99-501 N2-99 201	CR to GSM 03.78 v.7.0.0 n. A086 on Introduction of Active Location Information Retrieval in CAMEL Phase 3	Ericsson	Postpor
3C99-502 N2-99 202	Mobility Management in CAMEL Phase 3	Ericsson	Postpor
3C99-503 N2-99 203	CR to GSM 02.78 v. 6.2.0 on Mobility Management in CAMEL Phase 3	Ericsson	Postpor
3C99-504 N2-99 204	CR to GSM 03.78 v. 7.0.0 n. A087 on Introduction of Mobility Management Triggers in CAMEL Phase 3	Ericsson	Postpor
3C99-505 N2-99 205	CR to GSM 03.08 v. 7.0.0 n. A021 on Introduction of Mobility Management Triggers in CAMEL Phase 3	Ericsson	Postpor
3C99-506 N2-99 206	CR to GSM 03.16 v. 7.0.0 n. A026 on Introduction of Mobility Management Triggers in CAMEL Phase 3	Ericsson	Postpor
3C99-507 N2-99 207	GPRS interworking with CAMEL	Ericsson	Approvec chang
3C99-508 N2-99 208	CR to GSM 03.78 v. 7.0.0 n. A088 on CAMEL Phase 3 Support of GPRS	Ericsson	Reject
3C99-509 N2-99 209	CR to GSM 03.08 v. 7.0.0 n. A022 on Introduction of GPRS-CSI in CAMEL Phase 3	Ericsson	Forwarde N2B
3C99-510 N2-99 210	CR to GSM 03.16 v. 7.0.0 n. A027 on Introduction of GPRS-CSI in CAMEL Phase 3	Ericsson	Forwarde N2B
3C99-511 N2-99 211	Support of FIGS in CAMEL Phase 3	Ericsson	Withdra
3C99-512 N2-99 212	Not used		
3C99-513 N2-99 213	Technical Report on Multicall	NTT Software	Note

3C99-514 N2-99 214	Technical Report on Authentication	NTT Software	Revised to
3C99-515 N2-99 215	Propose to start Cyber_Meeting of Multicall in TSG CN	NTT Software	Notes
N2-99 216	Liaison Statement on Gateway Location Register	TSG S2	Notes
N2-99 217	CR to 03.78 n. A070r1 v. 6.3.0 on Inclusion of Begin Subscriber Activity information flow	Ericsson	Agree
N2-99 218	CR to 03.78 n. A089 v. 7.0.0 on Inclusion of Begin Subscriber Activity information flow	Ericsson	Agree
N2-99 219	CR to 03.78 n. A071r1 v. 6.3.0 on Correction on description of Time If Tariff Switch Information Element	Ericsson	Not discussed
N2-99 220	CR to 03.78 n. A090 v. 7.0.0 on Correction on description of Time If Tariff Switch Information Element	Ericsson	Not discussed
N2-99 221	CR to 03.18 v. 6.3.0 n. A043 on Alerting Pattern	France Telecom	Revised (245)
N2-99 222	CR to 03.82 n A004r5 to Modifications to call forwarding due to CAMEL Phase 2 (Revision of 3C99-281)	T-Mobil	Endorsed
N2-99 223	CR n. A092 to 03.78 on Correction of CAMEL Phase interworking with Call Forwarding	T-Mobil	Postponed
N2-99 224	LS to SMG1 and SA1 on Triggering Criteria	CN2 Chairman	Agree
N2-99 225	CR to GSM 03.78 n. A075r1 on Dialed Number String Format ARRIVATO QUI	Siemens	Agree
N2-99 226	CR to GSM 03.78 n. A091 on Inclusion of Alerting Pattern in Provide Roaming Number Information flow	Ericsson	Agree
N2-99 227	CR to GSM 09.02 n. A209	Siemens	Agree
N2-99 228	CR to GSM 09.02 n. A210 on New subscription options for call forwarding	Siemens	Agree
N2-99 229	LS on development of the Multicall capability in UMTS	TSG-SA WG1	Notes
N2-99 230	Report of the TSG SA WG3 meeting#1 (2 - 4 Feb. 99, London, UK)	TSG SA WG3	Postponed
N2-99 231	CR to GSM 03.78 n. A076r1 on Handling of AC/ACR in DP Busy, DP No Answer and DP Route Select	Siemens	Revised (244)
N2-99 232	CR to GSM 09.78 n. A042r2 on SCCP	Siemens	Revised (244)
N2-99 233	CR to GSM 09.02 v.7.0.0 n. A211 on Clarification in ASN.1 encoding of O-CSI and T-CSI	Ericsson	Agree
N2-99 234	CR to GSM 09.02 v. 6.3.0 n. A208r1 on Correction of USSD errors	Ericsson	
N2-99 235	Technical Report on out-of-band transcoder control	NEC	LS produced
N2-99 236	CR to GSM 03.78 v. 6.3.0 n. A073r2 on Description of the meaning of the Call Active parameter in the ACR operation	Ericsson	Not discussed
N2-99 237	CR to GSM 09.78 v. 6.3.0 n. A054r2 on Description of the meaning of the Call Active parameter in the ACR operation	Ericsson	Not discussed
N2-99 238	CR to GSM 03.78 v. 6.3.0 n. A084r1 on Correction of USSD Information flows	Ericsson	Agree
N2-99 239	CR to GSM 09.78 n. A042r3 on SCCP	Siemens	Agree
N2-99 240	CR to GSM 09.78 v. 6.3.0 n. A058r1 on Various Corrections	Ericsson	Not discussed
N2-99 241	Proposed LS to SMG10 on IST for non-CAMEL subscribers	N2 Chairman	Revised (247)
N2-99 242	Introduction of variable length parameters for Authentication	NTT Software	FFS
N2-99 243	Presentation of SA3#1 report in TSG SA#2	NTT DoCoMo	
N2-99 244	CR to GSM 03.78 n. A076r2 on Handling of AC/ACR in DP Busy, DP No Answer and DP Route Select	Siemens	Agree
N2-99 245	CR to 03.18 v. 7.0.0 n. A044 on Alerting Pattern	France Telecom	Postponed
N2-99 246	CR to 03.18 v. 6.3.0 n. A043r1 on Alerting Pattern	France Telecom	Postponed
N2-99 247	Proposed Liaison statement on IST	Vodafone	Agree
N2-99 248	Proposed LS to SA2 concerning Turbo Charger and Super Charger	Nortel	Agree
N2-99 249	CR to 09.02 v.6.3.0 n. A203r1 on Adding of MAP_DELIMITER_req to the Status report operation	Nokia	Agree
N2-99 250	CR to 09.02 v.7.0.0 n. A212 on Adding of MAP_DELIMITER_req to the Status report operation	Nokia	Agree
N2-99 251	Liaison Statement on Gateway Location Register	S2	Duplicate
N2-99 252	Liaison Statement to SA1 on Called Party Number Modification Check in CAMEL	Siemens	Revised (275)
N2-99 253	CR to GSM 09.60 v. 7.0.0 n. A055 on Codepoint for PDP type OSP:IHOSS	Nokia	Agree
N2-99 254	CR to GSM 03.15 v. 6.0.0 n. A007r1 on Corrections to text to introduce barring of SMS calls for GPRS	Motorola	Agree
N2-99 255	CR to GSM 03.78 v.6.3.0 n. A093 on Renaming of Call Active Variable	Siemens	Agree
N2-99 256	CR to GSM 09.78 v. 6.3.0 n. A059 on Correction of Abandon Handling	Ericsson	Not discussed
N2-99 257	CR to GSM 09.02 v. 6.3.0 n. A213 on Introduction of MSISDN	Siemens	Revised (270)
N2-99 258	LS to SA1 on DP mid call for Alert	Mannesmann	Revised (276)
N2-99 259	CR to GSM 09.10 n. A009 on GPRS attach reject cause when 'IMSI unknown'	Ian Park	Agree
N2-99 260	Proposed Liaison Statement to T1P1.5 on the encoding of 3-digit MNCs in GSM 09.60	Nortel	Agreed (F

			to send SMG3
N2-99 261	CR n. A0214 to GSM 09.02 on Clarification of the use of the GPRS "CompleteDataIncluded" flag	Nortel	Postpor
N2-99 262	Meeting schedule for this year	Chairman	Noted
N2-99 263	LS to SA1 on standardisation of HSCSD in UMTS	3GPP CN2	Contributi CN pler
N2-99 264	LS on out-of -band transcoder control	NEC	Agree
N2-99 265	CR to GSM 09.78 v.6.3.0 n. A060 on EventReportBCM procedure	Ericsson	
N2-99 266	LS on pre-paging	NEC	Revised (277)
N2-99 267	LS to SMG4 on codepoint for PDP type OSP:IHOSS	Nokia	Agree
N2-99 268	Proposed meeting agenda for SPS3/CN2 joint meeting	Deputy Chairman	Noted
N2-99 269	CR A215 to 09.02 for Release '98, see next Tdoc	Siemens	Agree
N2-99 270	Revised 257 (CR A213r1 to 09.02)	Siemens	Agree
N2-99 271	CR to GSM 03.78 v. 7.0.0 n. A094 on Inclusion of Activity Test IF between gsmSCF & gsmSRF and gsmSCF and assistSSF	Ericsson	Agree
N2-99 272	CR to GSM 09.78 v. 7.0.0 n. A061 on Inclusion of Activity Test IF between gsmSCF & gsmSRF and gsmSCF and assistSSF	Ericsson	Withdra
N2-99 273	CR to 03.78 v. 7.0.0 n. A095 on Description of the meaning of the Call Active parameter in the ACR operation.	Ericsson	
N2-99 274	CR to 09.78 v. 7.0.0 n. A062 on Description of the meaning of the Call Active parameter in the ACR operation	Ericsson	
N2-99 275	LS to SA1 (revision of 252)	Siemens	Agree
N2-99 276	LS to SA1 on DP mid call for Alert	Mannesmann	Agree
N2-99 277	LS on pre-paging (Revision of 266)	NEC	Agree
N2-99 278	CR to GSM 03.78 v. 6.3.0 n. A085r1 on Various Corrections	Ericsson	Not discu
N2-99 279	CR to GSM 03.78 v. 7.0.0 n. A096 on Correction of USSD Information flows	Ericsson	Not discu
N2-99 280	CR to GSM 03.78 v. 7.0.0 n. 097 on Vagrious corrections	Ericsson	Not discu
N2-99 281	CR to GSM 09.78 v. 7.0.0 n. 063 on Various Corrections	Ericsson	Not discu
N2-99 282	CR to 03.66 v7.0.0 n. A001r1 on Alignment between 03.66 Part 1 and Part 4 description of call related functionality	Nokia	Agree
N2-99 283	CR to GSM 03.66 v. 7.0.0 n. A002r1 on Corrections on MNP	Ericsson	Agree
N2-99 284	CR to GSM 03.66 v. 7.0.0 n. A003r1 on Routeing conventions in a portability clusters	Ericsson	Agree