## Plenary Meeting \#8, Düsseldorf Germany

$21^{\text {st }}-23^{\text {rd }}$ June 2000

3GPP TSG CN Working Group 4 Meeting\#02
Rotenburg, Germany
22-26 May 2000

| Source: | MCC |
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| Agenda item | Agenda item title | Tdoc 3GPP N4-00 | Title | Source | Result |
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| 1 | Opening, approval of agenda | 0201 | Proposed meeting agenda | N4 Convenor | Peter Schmitt welcomed participants on behalf of Siemens, providing the necessary logistic information. <br> The agenda was approved. |
| 2 | Document allocation | 0202 | Proposed allocation of documents to agenda items | N4 Convenor | Revised, according to requests from the floor. |
| 3 | Reports of previous meetings previous meetings |  |  |  |  |
| 3.1 | N4 Meetings | 0203 | N4\#01, Charleston, USA | MCC | No further comments raised. Meeting report approved. |
| 3.2 | Email approved CRs, LS | 0205 | (Draft) Response to LS on Number Portability Harmonisation CRs <br> Results of Email approval | Ericsson <br> N4 Convenor | The document was sent to T1P1 who have seen it. <br> 044 was withdrawn, 069 resubmitted to this meeting (Tdoc 0247), 100 was approved. |
| 3.3 | Other <br> Meetings 3GPP | 0204 | 3GPP TrFO Workshop, Stockholm, Sweden | MCC | Report noted |


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| 4 | Input liaison statements | 0238 0239 | Response to LS (S2-000604) on Clarification on Transfer Delay value for the streaming class <br> LS on Service Modification without Prenotification | N3 | Noted (only addressed to S2) <br> Introduced by NEC. Companies interested in the topic were encouraged to contribute. An LS will be drafted by NEC (Tdoc 319) to inform N3 that N4 are considering the issue. |
|  |  | 0319 | LS Response on Service Modification without Pre-notification | NEC | Revised to 0331 |
|  |  | 0331 | LS Response on Service Modification without Pre-notification | NEC | Approved |
|  |  | 0240 | Response LS to N4 on new specification 29.108 "Application of the Radio Access Network Application Part (RANAP) on the E-interface" | R3 | See section 7.4 |
|  |  | 0241 | Proposed LS To TSG-N SS ad-hoc on Service Requirements for Long Forwarded-to Numbers | S1 | See section 7.6 |
|  |  | 0242 | Liaison statement on Global "Cause of no ID" | S1 | See section 7.7.6 |
|  |  | 0243 | Liaison statement on hexadecimal IMEI format | S1 | See section 7.7.2 |
|  |  | 0244 | LS on GPRS Charging Enhancements | S5 | See section 7.3.2 |
|  |  | 0298 | LS on GPRS Charging Characteristics | S5 | See section 7.3.2 |
|  |  | 0308 | Evaluation of the impact on positive authentication reporting on network performance | S3 | See section 9.1 |
|  |  | 0309 | LS on Service Modification without Prenotification | T2 | For information. Noted |
|  |  | 0310 | LS on Address Translation in MMS R'00 | T2 | Sent in copy to N4. Noted. |


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| 5 | Work item management | 0302 | Work Item Management | CN4 Convenor | Highlighted that evolution of CN transport and bearers in the Core Network and Layer 3 segmentation were assigned to N4: companies interested were urged to provide work item description. All other items of relevance to N4 were briefly commented by the Chairman. It was noted that OoBTC was incorrectly assigned to N2 instead of N4. <br> The Chairman reminded that a set of companies should prepare the WI description. The expectation is that WI description comes from the group indicated as primarily interested. <br> For the Evolution of transport and bearers in the CN there was no volunteer (off line discussion needed). <br> For Layer 3 segmentation there was no volunteer as well. However, T-Mobil observed that this might be relevant only to the radio interface and that White Book SCCP should be applicable to CN signalling. |
| 6 | Election of Chairman | 0284 | Candidate for the position of 3GPP TSG CN WG4 Chairman | Ericsson | Only one nomination (Yun Chao Hu, Ericsson) was received before the meeting. Vodafone however reminded that valid nominations can still be submitted before the agenda point is discussed. This part of the meeting was chaired by lan Park, Vice Chairman of CN. <br> Yun Chao Hu was elected by acclamation. |
| 7 | Release 99 |  |  |  |  |
| 7.1 | CAMEL Phase 3 | 0206 <br> 0320 | CR 29.002-127 on Optionality of parameters in d-csi and in sms-csi <br> CR 29.002-127r1 on Optionality of parameters in d-csi and in sms-csi | Nokia <br> Nokia | Briefly explained that all data types in D-CSI and in SMS-CSI should be marked as optional because of segmentation. Rogier Noldus seemed satisfied with the CR, so no consolidation with N2 seems necessary (the N2 Chairman agreed as well). Vodafone highlighted that, although there are no problems with the CR principles, the mechanism opens the door to a generalised application. More CRs will consequently be needed for a complete solution package. <br> Siemens observed that tagging is needed since all parameters in D-CSI are now optional. <br> Revised to 0320 <br> Agreed |


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|  |  | 0247 0321 | CR 29.002-124r2 on CAMEL Subscription Info <br> CR 29.002-124r3 on CAMEL Subscription Info | Siemens | Substance already discussed in Charleston. Revisions provided by Vodafone, mainly. Only a minor modification in sect 8.1.1.3 was necessary (text split). Category should be C, as agreed in Charleston. Small concern about current wording expressed by Vodafone. Revised to 0321 <br> Agreed. |
| 7.2 | Mobile Number <br> Portability  | 0250 | CR 02.66-xxx on North American Service Provider Number Portability impacts for Mobile Number Portability | T1P1.5 | Revised to 0313 |
|  |  | 0251 | CR 03.18-A061 on North American Service Provider Number Portability impacts for Mobile Number Portability | T1P1.5 | Revised to 0314 |
|  |  | 0252 | CR 03.66-A019 on North American Service Provider Number Portability impacts for Mobile Number Portability | T1P1.5 | Revised to 0315 |
|  |  | 0253 | CR 22.066-xxx on North American Service Provider Number Portability impacts for Mobile Number Portability | T1P1.5 | Revised to 0316 |
|  |  | 0254 | CR 23.018-052 on North American Service Provider Number Portability impacts for Mobile Number Portability | T1P1.5 | Revised to 0317 |
|  |  | 0255 | CR 23.066-019 on North American Service Provider Number Portability impacts for Mobile Number Portability | T1P1.5 | Revised to 0318 |
|  |  | 0228 | CR 09.02-A294 on SC access control based on NPLR | Ericsson | Rejected. |
|  |  | 0229 | CR 03.66-A018 on SC access control based on NPLR | Ericsson | Ericsson intends to change the category from C3 to C1, with no changes to the CR text. Same concerns as for 0335: the change is considered to be a late addition of a feature for R'99 and must not be a part of R'98. |
|  |  | 0230 | CR 29.002-136 on SC access control based on NPLR | Ericsson | Superseded by 0335 |


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|  |  | 0335 | CR 29.002-136r1 on SC access control based on NPLR | Ericsson | Ericsson remarked that the CR is a correction since the existing mechanism does not suitably fit (in terms of fraud prevention) the Operators requirements. Siemens (with Nokia and Alcatel) observed that the second modification proposed cannot be considered a correction, but a functional modification of a feature. Alcatel highlighted that it is a new screening function in the network. |
|  |  | 0231 | CR 23.066-018 on SC access control based on NPLR <br> CR 23.066-018r1 on SC access control based on NPLR | Ericsson | Superseded by 0336 |
|  |  | 0336 |  | Ericsson | New functionality added to correct a currently wrong situation. Delivery should be changed into Submission to be consistent with SMG4 terminology. |
|  |  |  |  |  | Nokia expressed concern on the value of the delay resulting from the proposed implementation, which would reflect on a rather high resource usage (due to resource reservation, while waiting for the second segment). Alcatel expressed reservation on termination of TC dialogues. Still the opinion of a functionality not strictly related to MNP, but consisting in a filtering of information seemed to prevail. |
|  |  |  |  |  | Since it was not possible to finalise discussion during the meeting, the document will be sent for e-mail discussion. |
|  |  |  |  |  | Ericsson accepted the point of the addition of a feature and proposed to submit it, after technical acceptance, to the CN plenary to get also a political endorsement. Nokia clarified that their concern remains on a technical basis. |
|  |  | 0313 | CR 02.66-xxx on North American Service Provider Number Portability impacts for Mobile Number Portability | VoiceStream/Nokia | Withdrawn |
|  |  | 0314 | CR 03.18-A061r1 on North American Service Provider Number Portability impacts for Mobile Number Portability | VoiceStream/Nokia | Withdrawn |
|  |  | 0315 | CR 03.66-A019r1 on North American Service Provider Number Portability impacts for Mobile Number Portability | VoiceStream/Nokia | Withdrawn |


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|  |  | 0316 | CR 22.066-xxx on North American Service Provider Number Portability impacts for Mobile Number Portability | VoiceStream/Nokia | Takes into account the discussion held during the meeting in Milan. Alcatel expressed concern about the proposed definition of Number Portability and proposed the addition of some word. North American GSM Number Portability (NAGNP) was proposed and agreed. Ericsson noted a contradiction in sect.1. Vodafone proposed the addition of "outside the North American region" to solve the conflict. <br> NTT DoCoMo noted that this Spec is not under N4 remit, and hence must be sent, after endorsement, to S1. The proposers accepted to forward the endorsed CR to S1, seeking for their approval (possibly by e-mail since S 1 is not meeting any more before July). <br> MCC clarified that, because of a numbering mismatch, v. 3.2.0 was expected although the correct numbering is 3.1.0. The latter is then to be considered the reference version. <br> Revised To 0333 |
|  |  | 0333 0317 | CR 22.066-xxx on North American Service Provider Number Portability impacts for Mobile Number Portability <br> CR 23.018-052r1 on North American Service Provider Number Portability impacts for Mobile Number Portability | VoiceStream/Nokia VoiceStream/Nokia | Endorsed <br> Vodafone proposed to implement in the CR the agreed terminology change (see 0316). Other changes were proposed and agreed. Revised to 0334 |
|  |  | 0334 | CR 23.018-052r2 on North American Service Provider Number Portability impacts for Mobile Number Portability | VoiceStream/Nokia | Agreed. |


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|  |  | 0318 | CR 23.066-019r1 on North American Service Provider Number Portability impacts for Mobile Number Portability | VoiceStream/Nokia | Changes to the references were further corrected. Lengthy discussion on introduction of new functionality or functional enhancements in R99 and whether some changes are to be considered new functionality's. Ericsson stressed their position of considering harmonisation between PCS and GSM as the highest priority: consequently, any agreement reached about MNP, although technically correct, must not compromise this requirement. The Chairman, in order to speed up the discussion, recommended to stick to the technical content, since a wider scope agreement seemed difficult to reach. <br> Reference [14] will be removed (duplication of [9]). Definition section: Mobile Number Portability and North American GSM Number Portability are defined. Portability domain: Ericsson had problems with the definition because the concept does not exist in ANSI specifications. <br> Some abbreviations seem to be missing (CNP, CNAP, CNDP), according to Alcatel. They will be added by VoiceStream. <br> Subscription network should be detailed: PLMN, PSTN, ISDN, networks. Vodafone proposed the introduction of Portability Network, with a definition which differentiates the concept for North America. To be implemented throughout all the document. <br> Vodafone recommended to look at references to ETSI specs with the objective of updating 3GPP Specs with ITU-T Recommendations, wherever applicable. However, cases of a particular feature, specified in a regional standard, should be taken into account with a regional specification. Alcatel suggested the introduction of a reference to the ITU-T Spec on Enhancements to Number Portability. ANSI Specification should remain whenever they contain deviations from the ITU-T Specs. which in general are the preferential reference). <br> Section B.2.3: the addition was deleted as well as the Table in Sect. B.3. The additional SDL diagram is changed into the original one. <br> Ericsson disagreed with all the changes in Annex C since they do not relate to harmonisation (according to Ericsson, the changes of Annex C are not supported by ANSI Specification and should be handled in a separate Spec). <br> Annex C: additions to sect. 2.2 were agreed. Fig. C.2.2: a change was agreed. Sect. C.2: some amendments were agreed. Sect. C.6.4: changes agreed. Eventually, the concern of Ericsson about portability domain was withdrawn as well as the concerns |


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|  |  | 0338 | CR 23.066-019r2 on North American Service Provider Number Portability impacts for Mobile Number Portability | VoiceStream/Nokia | Agreed |
| $\begin{aligned} & 7.3 \\ & 7.3 .1 \end{aligned}$ | GPRS |  |  |  |  |
|  | Port Numbers | 0208 | CR 29.060-100 on Introduction of a different port number for GTP-C and GTPU | Lucent | Withdrawn (replaced by 323 and 324) |
|  |  | 0324 | CR 29.060-100r1 on Introduction of a different port number for GTP-C and GTPU | Lucent | This CR provides a mechanism to fall back to version 0. Agreed. |
|  |  | 0323 | CR 29.060-120 on Removal of the PT flag from GTP-C and GTP-U | Lucent | Nokia expressed disagreement, but before rejecting it, the Chairman proposed the CR be discussed between Nokia and Lucent. Fujitsu also opposed to the CR, which was then rejected. <br> Lucent was encouraged to contact S5 and ask them to provide requirements that might support the CR in a future occasion. |
|  |  | 0256 | CR 29.060-103 on UDP port usage for GTP-C | Lucent | According to Nokia, the proposed optimisation seems to limit implementation. The CR was rejected. |
| 7.3.2 | Charging | 0224 | CR 23.008-029 on Addition of charging characteristics per PDP context | France Telecom | A minor editorial mistake was discovered by Ericsson and corrected by MCC. Agreed. |
|  |  | 0225 | CR 23.016-015 on Addition of charging characteristics per PDP context | France Telecom | Addition to the PDP context tree (last line). Agreed. |
|  |  | 0226 | CR 29.002-135 on Addition of charging characteristics per PDP context | France Telecom | PDP charging characteristic has been added to sect 7 and 17. The length of the parameter (charging characteristic) was not changed, (1 octet). Nokia observed some inconsistency in the reason for change and Vodafone proposed to delete the sentence. |
|  |  |  |  |  | Charging characteristic size was corrected and reference to the charging specification was recommended by Ericsson. Revised to 0326. |
|  |  | 0326 | CR 29.002-135r1 on Addition of charging characteristics per PDP context | France Telecom | Agreed. |
|  |  | 0227 | CR 29.060-101 on Addition of charging characteristics per PDP context | France Telecom | Revised to 0327. |


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| 7.3.3 | TEID | 0327 0244 | CR 29.060-101r1 on Addition of charging characteristics per PDP context LS on GPRS Charging Enhancement | France Telecom S5 | Agreed. <br> Introduced by FT. NTT DoCoMo and probably other operators would support the LS requirements, but current implementations seem to be at a rather advanced stage. Nokia observed that this seems to be the addition of a feature for R99. CRs related to this topic are also presented in the meeting ( 23.060 will be presented in Berlin). <br> The CRs will be analysed and reviewed by N4, forwarding the approved ones to CN , indicating that they are generated by an S5 requirement. |
|  |  | 0298 | LS on GPRS Charging Characteristics | S5 | Vodafone noted that several definitions of GPRS charging characteristics are spread over different specifications, which might lead to inconsistencies. Specific reference to 32.015 should be given, avoiding other semantics. <br> N4 should reply indicating that changes to specs under N4 remit will be duly performed (Tdoc 325, drafted by Vodafone) |
|  |  | 0257 | CR 29.060-104 on TEID usage clarification in GTP-C | Lucent | Vodafone suggested minor wording corrections, to be performed off line by Lucent. <br> NTT Software did not agree to state that the TEID is a mandatory parameter: <br> - Mandatory parameter will require bandwidth to transfer but will not require additional signalling load on the platform <br> - Optional parameter will save bandwidth but requires additional signalling load to identify if the TEID is required. <br> - Referred to Tdoc 101 as agreed at N4\#01. <br> Rejected based on agreed principle for Tdoc 0101. |
|  |  | 0280 | CR 29.060-115 on Clarification of the TEID for Signalling | NTT Software | Agreed. |


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| 7.3.4 | GTP | 0281 | CR 29.060-116 on Clarification on the TEID for Signalling of the PDU Notification Reject Request | NTT Software | Vodafone asked whether the change in the table had been performed all over the document. Open Action Point for MCC: see Charleston meeting report. The Action Point is to be implemented after CN\#08. <br> Vodafone observed that 0257 and 0281 seem to go in opposite directions. Consequently it is necessary to agree on a principle and then reject either CR. The scenario in which TEID has or does not have to be sent must be clearly defined. The principle of having conditional parameters was approved, hence Tdoc 0257 was rejected and this CR was agreed. |
|  |  | 0295 | CR 29.060-118 on Presence condition of the TEID for signalling | Fujitsu | Withdrawn |
|  |  | 0258 | CR 29.060-105 on Race conditions avoidance | Lucent | Agreed. As indicated in the front page, Lucent will draft an LS (328). Action Point MCC: Ask Alessio the revised text with the footnote changed into a normal Note. |
|  |  | 0328 | Proposed LS on Race conditions avoidance | Lucent | Revised to 340, to broaden the scope. |
|  |  | 0340 | LS on Race conditions avoidance | Lucent | Approved |
|  |  | 0259 | CR 29.060-106 on Removal of Connection oriented paths | Lucent | Mostly editorial. Agreed. |
|  |  | 0260 | CR 29.060-107 on GTP flow definition removal | Lucent | Withdrawn |
|  |  | 0261 | CR 29.060-108 on use of the Sequence number in GTP-C | Lucent | Agreed. |
|  |  | 0262 | CR 29.060-109 on the N-PDU number in GTP-C | Lucent | Editorial change. Agreed. |
|  |  | 0270 | CR 29.060-112 on Introducing Supported Extension Headers Notification to GTP-U | Ericsson | Extension Headers can be included in the table. Agreed. |
|  |  | 0271 | CR 29.060-113 on Missing IEs in GTP-C Error Indication | Ericsson | Agreed. |


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| 7.3.5 | Editorials | 0272 | CR 29.060-087r1 on Reliable delivery of signalling messages | Ericsson | The original CR was presented in Charleston, to allow time for consideration. Reliable signalling was achieved through addition of an ack. A CR against 23.060 has been submitted as well. Cover sheet must be updated with this information. Action Point MCC: Ask Stefan Toth to provide the updated document. Agreed. |
|  |  | 0282 | CR 29.060-117 on Clarification of the conditional information elements | NTT Software | Revised to 0330. |
|  |  | 0330 | CR 29.060-117r1 on Clarification of the conditional information elements | NTT Software | Recommended, in this case, to stick to the original text of the reference version (3.4.0). One or more instead of single or plural number. <br> Revised to 0347. |
|  |  | 0347 | CR 29.060-117r2 on Clarification of the conditional information elements | NTT Software | Agreed |
|  |  | 0246 | CR 29.060-102 on Alignment of text with tables | Siemens | Agreed |
|  |  | 0268 | CR 29.060-110 on Editorial modifications | Ericsson | Revised to 0329. |
|  |  | 0329 | CR 29.060-110r1 on Editorial modifications | Ericsson | Agreed. |
|  |  | 0269 | CR 29.060-111 on Editorial modifications concerning GTP-U and GTP-C | Ericsson | Control instead of signalling and User plane instead of Transmission plane. Action Point MCC: Ask Stefan Toth for the revised document. Lucent also proposed some changes to sect. 10.1.1 and 10.1.2 |
|  |  |  |  |  | Terminology agreed: Tunnel Endpoint Identifier for Control Plane. Sect 11.1.1-6: changes were agreed. Revised to 0341. |
|  |  | 0341 | CR 29.060-111r1 on Editorial modifications concerning GTP-U and GTP-C | Ericsson | Agreed. |
|  |  | 0296 | CR 29.060-119 on Clarification on the use of SGSN address at PDU notification procedure | Fujitsu | Small change in wording recommended by Vodafone. It will be performed by Fujitsu and the amended document will be forwarded to MCC. Agreed |
| 7.3.6 | Stage 2 | 0285 | CR 23.060-xxx on Compatibility GTPv0/GTPv1 in case of SGSN change | Siemens | Withdrawn |
| 7.3.7 | IP Security | 0297 | Use IPSec to secure GTP messages | Motorola | Noted. Vodafone observed a duplication with activity already undertaken on GTP security in N2B and N4. |


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| 7.3.8 | Subscriber Data | 0303 | CR 29.002-147 on Confirmation of deletion of GPRS subscription data. | Vodafone AirTouch | Siemens expressed some concern and requested to check internally. Nokia supported the CR. It was eventually agreed to send it for e-mail approval. |
| 7.4 | Handover | $\begin{aligned} & 0209 \\ & 0278 \\ & 0240 \end{aligned}$ | CR 29.002-130 on Version 3 Tags for handover messages for R99 <br> CR 29.002-143 on editorial correction to MSC-A handover SDLs <br> Response LS to N4 on new specification 29.108 "Application of the Radio Access Network Application Part (RANAP) on the E-interface" | Siemens <br> NTT Comware <br> R3 | V3 Tags introduction was justified by Siemens. Agreed without comments <br> Agreed. <br> No attachment provided. A. Vesely will be contacted for providing it. Noted, for the time being. |
| 7.6 | Call Forwarding Enhancements | $0241$ <br> 0291 <br> 0348 | Proposed LS To TSG-N SS ad-hoc on Service Requirements for Long Forwarded-to Numbers <br> CR 23.082-007 on Inclusion of service requirements from TSG-S1 <br> CR 23.082-007r1 on Inclusion of service requirements from TSG-S1 | S1 <br> Vodafone AirTouch <br> Vodafone AirTouch | Noted. <br> A comment from Lucent was got from Vodafone. Revised to 0348 <br> Agreed |
| $\begin{array}{\|l\|} \hline 7.7 \\ 7.7 .1 \end{array}$ | AoB <br> Multi Call | 0221 <br> 0222 <br> 0223 <br> 0277 <br> 0349 | CR 23.135-001 on Cleanup and corrections for Multicall Stage 2 <br> CR 24.135-001 on Clarifications of the Multicall procedures <br> CR 22.004-004 on Definition of Multicall supplementary services <br> CR 29.002-142 on addition of a parameter in the subsequent Handover from UMTS to GSM with Multicall <br> CR 29.002-142r1 on Addition of a parameter in the subsequent Handover from UMTS to GSM with Multicall | EricssonEricssonEricssonNTT Comware, <br> Ericsson <br>  <br> NTT Comware, <br> Ericsson | Fig. 10 and the part dedicated to Call Confirm will be subject to email approval. Tdoc to be revised <br> To be revised and sent to e-mail discussions <br> Withdrawn <br> Sect 17: A and B should be in capital letters. Subsequent interMSC handover to be used in order to avoid confusion wit the existing terminology. Siemens raised the point of possibly needing to change also the SDL diagrams. <br> Revised to 349 <br> Agreed |


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| 7.7.2 | IMEI | 0283 0350 | Requirement on Network to Tear Down Calls to Accept EC in Multicalls Unnecessary <br> CR to 23.009 on Handover scenario for Multicall | Ericsson  <br> NTT  <br> Ericsson  | Proposed to send an LS to S1. Nokia is reluctant since it is not clear which added value can be achieved. It was then agreed that the document can be input to S1 as a company contribution. <br> No need for discussion, since N1 agreed (N4 has second responsibility). Noted. Action Point MCC: to inform Ban that N4 agrees with CR approval. |
|  |  | $\begin{aligned} & 0207 \\ & 0232 \\ & 0351 \end{aligned}$ | CR 29.002-128 on Hexadecimal IMEI format <br> CR 23.003-020 on Hexa IMEI <br> CR 23.003-020r1 on Hexa IMEI | Nokia <br> Nokia <br> Nokia | The CR might not be needed, given the discussion on the CR to 23.003. Withdrawn. |
|  |  |  |  |  | Revised to 0351. |
|  |  |  |  |  | IMEI structure is unchanged, only coding has become hexadecimal. Siemens would like to see a cutover date for introduction of this change, as for White Book implementation. According to Nokia, feasibility must be agreed first. Nokia agreed with the Vodafone requirement to see a paragraph indicating that the support from the network should start at a [date to be specified], in order to have a placeholder in the document. |
|  |  |  |  |  | A non consistent reference was noted in 6.2.1 and A.1. |
|  |  |  |  |  | Siemens asked whether it is possible to avoid usage of the central $F$ in the IMEI coding, in order to save changes to MAP and allow transmit of IMEI in the Initial Message of the Calling Party Address: F is detected in ISUP as End of number. Nokia agreed to exclude F in the hexa coding, to avoid problems of signalling. |
|  |  |  |  |  | Use of spare digits, maintaining decimal codings, was debated by e-mail, but Nokia highlighted that there are not enough spare digits. |
|  |  |  |  |  | The revised document will be sent for e-mail approval. |


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| 7.7.3 | Editorials andclarifications | 0220 | CR 23.003-019 on Missing UTRAN identifiers | Ericsson | Missing identifiers have been added in the scope. Two references added. New section 12, taken from 25.401. <br> Vodafone objected with the category definition: given the technical substance, it should be C. Ericsson would have no problem to change it to B , since it is additional text (i.e. addition of a feature). An LS should be sent to R3 asking them to define the new parameters accordingly, but the Chairman preferred to avoid the risk of duplicating specifications. LS will be drafted by Ericsson (Tdoc 0356). <br> The CR was agreed. |
|  |  | 0243 | Liaison statement on hexadecimal IMEI format | S1 | Siemens highlighted the issue of backwards compatibility in case of approval of the CR to 23.003, where the IMEI structure is described. So the change of structure should be made in a compatible way. N4 noted the requirement expressed in the LS and the Siemens concern. <br> The Chairman suggested to reply to S1 (Tdoc 0355). Nokia accepted the Action Point: N4 agrees to move the information of Annex A to 23.003. Cutover date and the F digit will also be mentioned. |
|  |  | 0355 | LS to S1 on hexa digit | Nokia | Revised to 0384. |
|  |  | 0384 | LS to S1 on hexa digit | Nokia | Revised to 0386. |
|  |  | 0386 | LS to S1 on hexa digit | Nokia | Approved. |
|  |  | 0358 | LS from IMEI hexadecimal coding | S3 | No security problem identified, but uniqueness of the IMEI must be guaranteed. It supports N4 viewpoint. |
|  |  | 0216 | CR 29.002-133 on Various corrections and/or cleanup to 29.002 | Ericsson | Formatting in sect. 7.6.1.4 was corrected. Highlighted that There is no definition for MS not Reachable flag: this correction was not performed because of lack of time. |
|  |  |  |  |  | Vodafone observed that alignment of text to SDL was OK, but he SDL was wrong. The item will then be removed from the CR. |
|  |  |  |  |  | According to Nokia the changes to the MSC address should be reflected in previous versions. Ericsson will solve the issue for 29.002 by replacing the modification with a reference in 7.6.2. <br> Revised to 357. |
|  |  | 0357 | CR 29.002-133r1 on Various corrections and/or cleanup to 29.002 | Ericsson | Agreed |


| Agenda item | Agenda item title |  | Title | Source | Result |
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| 7.7.4 | ASCI | 0264 <br> 0293 <br> 0294 | CR 29.002-138 on Clarification of SAl-ack segmentation procedure <br> CR 29.002-145 on Addition of state attributes in Forward group call signalling <br> CR 29.002-146 on New user error 'target cell outside group call area' in MAP Prepare Handover message | Nortel Networks <br> Siemens <br> Siemens | Nokia proposed to keep the Number of Requested Vectors optional. The discussion involved the behaviour of the HLR in this case and it was eventually agreed to keep the parameter mandatory. <br> SDLs in section 25.5 .5 might be affected by the change, according to Alcatel, who would like some clarification on the issue. Vodafone believes that the issue raised needs further study but is confident that it is decoupled from the Nortel Networks CR. An off line discussion (Vodafone will convene it) will take place with the target of reporting for this meeting . <br> Two editorial changes in the ASN. 1 sections will be handled by Nortel Networks. Agreed. <br> Off line, Siemens recognised that there might be an impact on the SDLs, for which e-mail approval of another CR, to submit directly to CN\#08, might be necessary. <br> Agreed. Vodafone asked whether it is a correction or a functional modification of feature. First option, according to Siemens, who justified the choice accordingly. <br> Agreed. |
| 7.7.6 | CLI | $\begin{aligned} & 0299 \\ & 0352 \\ & 0300 \\ & 0353 \end{aligned}$ | CR 23.081 on Cause of no CLI indication v.3.0.0. <br> N4000299 <br> CR 23.081r1 on Cause of no CLI indication v.3.0.0. <br> CR 24.081 on Cause of no CLI indication v.3.0.0 <br> CR 24.081r1 on Cause of no CLI indication v.3.0.0 | Nokia <br> Nokia <br> Nokia <br> Nokia | Revised to 352 <br> To be merged with 03.07. Postponed for e-mail discussion. <br> Revised to 0353 <br> Action Point MCC: to update all the reference list with 3GPP specs in all the specifications inherited by the SS-ad hoc. However, it was clarified that update of references in the text must be done via CRs. <br> The CR needs completion. Postponed to e-mail discussion. |


| Agenda item | Agenda item title |  | Title | Source | Result |
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|  |  | 0301 | Cause of no CLI indication | NTC, Nokia | For information. N1 already endorsed the proposal. <br> Three alternative approaches in the doc: a more general approach to alternative 1.1 seems to be preferable for T-Mobil Alternative 2 needs additional information. <br> A global standardisation of access signalling is more beneficial than regional variants, purely to cope with the service specificity. NTT DoCoMo, however, noted that the interactions with payphones, which generated the CR, seem to be a requirement of Japan only. <br> N4 agreed that a more global solution for CLI is required and ISUP 2000 capabilities need to be adapted to ensure it. An expansion of ISUP 2000 might be required to meet the TTC requirements. |
|  |  | 0242 | Liaison statement on Global "Cause of no ID" | N1 | Interactions with other services need better specification. The response LS will mention it. There might be Japanese specific cause values which should be reflected in a global solution: this will take some time. Vodafone highlighted two issues: transport of codepoints for presentation and transport between network and MS. <br> LS noted. |
|  |  | 0354 | Liaison statement on Global solution of "Cause of no CLI" | N1 | Additional information element in 24.008 to have the Cause value reported back. Response to N1: more global solution or mapping onto ISUP 2000. NTT DoCoMo proposes the N1 solution as acceptable for R99: more global solution to be pursued in the future. <br> NTC will draft the response LS (0369) |
|  |  | 0369 | Response LS to N1 | NTC | Revised to 0385 |
|  |  | 0385 | Response LS to N1 | NTC | Approved |
|  |  | 0360 | Proposed CLI mapping | T-Mobil | Mediation between the Japanese proposal and the globalisation requirements. T-Mobil will assist Nokia in the reformulation of the corresponding CR. |
|  |  | 0307 | CR 23.081-xxx on Introduction of ACR support for CLIP according to ISUP 2000 | T-Mobil | Covered by the new tabled provided in 0360 . |


| Agenda item | Agenda item title | Tdoc 3GPP <br> N4-00 | Title | Source | Result |
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| 8 | Election of Vice Chairman |  |  |  | None appeared, not even during the meeting. The Chairman urged to contact the respective companies to produce candidates (with the letter of support) for the next July meeting. Action Point MCC: to post again the invitation for the position of Vice Chairman. The letter should highlight that the Chairman stressed the importance of having a Vice Chairman, in particular from the viewpoint of the split of organisational burden. |
| 9 | Release 00 |  |  |  |  |
| 9.1 | MAP Security | 0210 | CR 29.002-131 on Key exchange and distribution for MAP security for R00 | Siemens | Simplicity of the proposed solution was commented by Vodafone, who do not see any reason why it should not work. <br> SDL information need to be further reviewed and discussion will be handled by e-mailed. <br> T-Mobil volunteered to draft an LS to inform S3 and S5 of the ongoing activity in N4, attaching the CR for information. |
|  |  | 0304 | CR 29.002-148 on Changes to the MAP protocol machine for secure MAP transport | Vodafone AirTouch | Revised various times (0332, 0369) until 0361 |
|  |  | 0361 | CR 29.002-148r3 on Changes to the MAP protocol machine for secure MAP transport | Vodafone AirTouch | It deals with Layer 3 only. Thorough illustration of the modified SDLs. There will be a detailed review by e-mail. |
|  |  | 0308 | Evaluation of the impact on positive authentication reporting on network performance | S3 | Duplication. See 0362. |
|  |  | 0311 | MAP Signalling Functionality out of service |  | Withdrawn |
|  |  | 0359 | Liaison Statement on Protocol Choice for Layer I of MAP Security | S3 | Presented by the Chairman and noted. Nokia observed that the approach of doc 337 makes this LS obsolete. |
|  |  | 0337 | Proposed LS on Functions of Key Distribution and Key Administration for MAP security | S5 | Key Distribution and Administration for Security is an O\&M issue and belongs to S 5 . Time scale will not allow S 5 to consider the N4 response in time for SA\#08. |
|  |  |  |  |  | Although MAP is under the remit of N4, this does not prevent that S5 design a MAP based solution for security. |
|  |  |  |  |  | Vodafone believes that completion of Layer 3 by June should have a higher priority than completion of Layer 1 and 2. |
|  |  |  |  |  | The Chairman will draft the response LS. |


| Agenda item | Agenda item title | Tdoc 3GPP N4-00 | Title | Source | Result |
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|  |  | 0362 <br> 0363 <br> 0312 | Evaluation of the impact on positive authentication reporting on network performance <br> LS to S3 on GTP signalling security <br> MAP entity restart | S3 | According to Nokia, Authentication reporting to the Home Domain seems to be a mandatory feature for R99, but for the Chairman, it is an optional feature. The impact of the proposal on the network seems to be significant, however, and Ericsson proposed to evaluate it carefully, before responding to $S 3$. <br> An LS (Tdoc 364) in response to S3 will be drafted by Ericsson, highlighting that this feature seems to be important for 3GPP2 roamers in a 3GPP network. <br> Approved. <br> Withdrawn |
| 9.2 | OobTC | 0115 | Active Codec Set (ACS) Negotiation and Notification | NTT DoCoMo | Formerly presented in the Stockholm workshop, the document illustrates the NTT DoCoMo understanding of the basic assumption of ACS Negotiation. The Chairman proposed to note the document and to study it carefully, identifying the impact of the proposed assumptions, and discussing it with the delegates of the other WGs. <br> NTT DoCoMo requested to discuss in detail sect. 2.1, which was agreed as a working assumption for N4. For the final decision, the workshop is responsible. |
|  |  | 0117 | How to handle Organisation Identifier | NEC | Not discussed in the workshop because of lack of time, but already discussed in Milan N2B. Found as a sensitive political solution to solve the problem that ITU-T does not regard 3GPP Specifications as standards. NTT DoCoMo maintained concerns on the proposal also at the end of the discussion. <br> The Chairman proposed to reject the document. Vodafone observed that this solution does not give any possibility to identify the available codecs in a connection. NTT DoCoMo was then asked whether they can identify a third option, different from the two illustrated in the document. <br> LS drafted (0387). |
|  |  | 0245 | How to finalize OoBTC R00 in N4 | NEC | Discussion paper. Date of June 2000 seems not feasible. <br> Proposal accepted. The list of issues was found quite useful and could be attached as an informative annex to the Stage 2 Spec. on OoBTC (3G TS 23.153), still in v. 2.0.0. |


| Agenda item | Agenda item title | Tdoc 3GPP <br> N4-00 | Title | Source | Result |
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|  |  | 0265 | Iu UP handling and RFCI allocation procedures in CN | Ericsson | Protocol initialisation along the lu connection when the connection is established. <br> Ericsson proposed to circulate the document for information in view of the forthcoming TRFO workshop. |
| 9.3 | Location Services | 0273 | CR 29.002-140 on Addition of the PS description for LCS to 29.002 | NTC/Fujitsu | An extensive CR to 23.171 is currently discussed (Nokia) in Berlin: this makes discussion on 29.002 a bit premature. It affects nearly every section in the Spec, and this makes it difficult to concentrate on specific 29.002 issues. <br> Siemens noted that changes to SDLs are missing, most likely because 29.002 does not have a section for procedural description of Location Services, although it was promised by Stephen Edge. The information is needed for R98 as well. <br> AnyTime Subscription Interrogation and Modification for gsmSCF is not out of scope of MAP, and the description is missing. Rogier Noldus will be contacted to check his availability to contribute on this issue. <br> Postponed to the next meeting. |
| 9.4 | IP transport | 0292 | Introduction of IP as transport for MAP | Nortel Networks | Two options for a protocol stack with MAP on top of IP are presented. <br> Issues identified for MAP over IP signalling <br> - Choice of user adaptation layer (SIGTRAN M3UA or SUA, as shown in figure 1). Is SCCP required? <br> - Addressing (E.164 - IP address translations at signalling gateways) <br> - Segmentation (segmentation/reassembly at signalling gateways) <br> Nokia mentioned that S2 chooses the protocol selections. N4 is still mandated to look into the IP signalling for the circuit-switched domain. <br> Noted. |
| 10 | GSM Maintenance |  |  |  |  |
| 10.1 | Version handling at dialogue establishment | 0211 | CR 29.002-132 on Correction of version handling at dialogue establishment | Ericsson | Agreed |


| Agenda item | Agenda item title | Tdoc 3GPP <br> N4-00 | Title | Source | Result |
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|  |  | 0212 <br> 0213 <br> 0214 <br> 0215 | CR 09.02-A288 on Correction of version handling at dialogue establishment (phase 2) <br> CR 09.02-A289 on Correction of version handling at dialogue establishment (R96) <br> CR 09.02-A290 on Correction of version handling at dialogue establishment (R97) <br> CR 09.02-A291 on Correction of version handling at dialogue establishment (R98) | Ericsson <br> Ericsson <br> Ericsson <br> Ericsson | There is no MAP_CLOSE_CONFIRM. Vodafone said that it might even be considered an editorial correction. Agreed, as well as Release 96 and Release 97 CRs. <br> Agreed <br> Agreed <br> The implication of the CR is that the version needs to be updated whenever a new AC is introduced. A solution will be the production of a more generic text, not involving Specific AC versions. Ericsson will provide it for sect. 8.2.4.1 for Release 00: the probability of introducing AC v5 in R99 or lower is vanishingly small. Agreed. |
| 10.2 | Macro Receive Open Ind | 0217 <br> 0218 <br> 0219 | CR 29.002-134 on Correction of errors in SDL for Macro Receive_Open_Ind <br> CR 09.02-A292 on Correction of errors in SDL for Macro Receive_Open_Ind (R97) <br> CR 09.02-A293 on Correction of errors in SDL for Macro Receive_Open_Ind (R98) | Ericsson <br> Ericsson <br> Ericsson | Agreed <br> Corrections to figures were duly reported. MCC will be provided with better figures. A connect symbol was correctly replaced with a Macro exit. A concern was expressed by Siemens: if accepted, it would involve changes to Release 96 onwards. <br> The preference for Vodafone is to accept the CR as it is, together with R98 and R99. Interested companies will check whether future corrections are required. Category to be changed to C2 by MCC. Agreed <br> Agreed |
| 10.3 | GTP Cause clarification | $\begin{aligned} & \hline 0286 \\ & 0287 \\ & 0279 \end{aligned}$ | CR 09.60-A086 on Clarification of the Cause of Create PDP Context Response <br> CR 09.60-A087 on Clarification of the Cause of Create PDP Context Response <br> CR 29.060-114 on Clarification of the Cause of Create PDP Context Response | NTT Software <br> NTT Software <br> NTT Software | Withdrawn <br> Withdrawn <br> Agreed |
|  |  | 0288 | CR 29.002-144 on Use of NAM parameter with MAP-INSERT-SUBSCRIBER-DATA service between HLR and SGSN | Nortel Networks | Revised to 378 |


| Agenda item | Agenda item title |  | Title | Source | Result |
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|  |  | 0378 <br> 0289 <br> 0376 <br> 0290 <br> 0377 | CR 29.002-144r1 on Use of NAM parameter with MAP-INSERT-SUBSCRIBER-DATA service between HLR and SGSN <br> CR 09.02-A298 on Use of NAM parameter with MAP-INSERT-SUBSCRIBER-DATA service between HLR and SGSN (R97) <br> CR 09.02-A298r1 on Use of NAM parameter with MAP-INSERT-SUBSCRIBER-DATA service between HLR and SGSN (R97) <br> CR 09.02-A299 on Use of NAM parameter with MAP-INSERT-SUBSCRIBER-DATA service between HLR and SGSN (R98) <br> CR 09.02-A299r1 on Use of NAM parameter with MAP-INSERT-SUBSCRIBER-DATA service between HLR and SGSN (R98) | Nortel Networks <br> Nortel Networks <br> Nortel Networks <br> Nortel Networks <br> Nortel Networks | Agreed <br> Relates to use of Network Access Method parameter. A contradiction between parameter category in text and table was noted by Ericsson. It is only required to VLR/MSC for recovery situation, according to Nortel. Nortel is happy to provide additional text to clarify. <br> Text related to Subscriber Status needs to be cleaned as well: this parameter shall always be sent to the SGSN as part of the Subscriber Data at Location Updating. It shall be sent to the SGSN or VLR as appropriate if it is changed as a result of administrative action. <br> Revised to 376 <br> Agreed <br> Revised to 377 <br> Agreed |
| 10.4 | Addressing | 0233 <br> 0342 <br> 0234 <br> 0343 | CR 03.03-A042 on Editorial Modification of section 6.2.2 (Phase 2) <br> CR 03.03-A042r1 on Editorial Modification of section 6.2.2 (Phase 2) <br> CR 03.03-A043 on Editorial Modification of section 6.2.2 (R96) <br> CR 03.03-A043r1 on Editorial Modification of section 6.2.2 (R96) | Nokia <br> Nokia <br> Nokia <br> Nokia | Revised to 342 <br> Agreed <br> Revised to 343 <br> Agreed |


| Agenda item | Agenda item title | Tdoc 3GPP <br> N4-00 | Title | Source | Result |
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|  |  | 0235 <br> 0344 <br> 0236 <br> 0345 <br> 0237 <br> 0346 <br> 0263 | CR 03.03-A044 on Editorial Modification of section 6.2.2 (R97) <br> CR 03.03-A044r1 on Editorial Modification of section 6.2.2 (R97) <br> CR 03.03-A045 on Editorial Modification of section 6.2.2 (R98) <br> CR 03.03-A045r1 on Editorial Modification of section 6.2.2 (R98) <br> CR 23.003-021 on Editorial Modification of section 6.2.2 (R99) <br> CR 23.003-021r1 on Editorial Modification of section 6.2.2 (R99) <br> CR 09.60-A085 on Use of 3 Digit MNCs in GTP for R'97 | Nokia <br> Nokia <br> Nokia <br> Nokia <br> Nokia <br> Nokia <br> Nortel Networks | Revised to 344 <br> Agreed <br> Revised to 345 <br> Agreed <br> Revised to 346 <br> Agreed <br> To avoid interworking problems between GPRS R97 and R98. Supported by Vodafone, although a similar CR was discarded in a previous meeting. <br> Siemens agreed as well, although not fully convinced that a CR to 03.03 is needed as well. Vodafone explained that three digits MNCs should be recognised in 03.03 for R97 as well, in order to be able to address them. <br> Agreed |
| 10.5 | Positioning | $\begin{aligned} & 0266 \\ & 0267 \\ & 0248 \\ & 0249 \end{aligned}$ | CR 09.02-A295 on Indication of unsupported position method <br> CR 29.002-139 on Indication of unsupported position method <br> CR 04.30-A002 on Correction of MO-LR procedure for LCS <br> CR 24.030-002 on Correction of MO-LR procedure for LCS | Nokia <br> Nokia <br> Siemens <br> Siemens | MSC shall be informed of the supported positioning method. <br> To be revised and sent to e-mail approval, with a better clarification of the reason for change. <br> E-mail approval <br> Agreed <br> Agreed |
| 10.6 | SMS | $\begin{aligned} & 0274 \\ & 0275 \end{aligned}$ | CR 09.02-A296 on Clarification for ReportSM-DeliveryStatus operation <br> CR 09.02-A297 on Clarification for ReportSM-DeliveryStatus operation | Nokia | Agreed <br> Agreed |


| Agenda item | Agenda item title | Tdoc 3GPP N4-00 | Title | Source | Result |
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|  |  | 0276 | CR 29.002-141 on Clarification for ReportSM-DeliveryStatus operation | Nokia | Agreed. |
| 10.7 | Deflected-to-Number | $\begin{aligned} & 0305 \\ & 0306 \end{aligned}$ | CR 04.80-017 on Correction of definition of Deflected-to number <br> CR 24.080-004 on Correction of definition of Deflected-to number | T-Mobil <br> T-Mobil | Agreed. <br> Agreed. |
| 11 | AoB | 0383 | CR 23.012-006 on Introduction of Mobility Management event notification into 23.012 procedures | N2 | Endorsed and sent to N4 for approval. Alcatel was requested to provide a correct copy |
| 12 | Output Documents |  |  |  |  |
| 12.1 | Agreed CRs |  |  |  | See Annex C |
| 12.2 | Agreed Specifications |  |  |  | No new one agreed. |
| 12.3 | Liaison Statements |  |  |  | See Annex D |
| 12.4 | E-mail approval list | 367 | Proposed e-mail approval procedure |  | Text was amended indicating that three weeks time is the maximum allowed for closing the loop of e-mail discussion. The Chairman clarified that the telephone conference will be only held as necessary: however, in the end it was agreed to remove the option from the procedure. It was noted that removing the telephone conference limits to one the number of possible cycles in the procedure. Three working days allow for editing. <br> At the end of a lengthy discussion, the document was rejected. <br> Document 0388 contains the list of documents that are going to e-mail discussion. <br> Action Point MCC: Send an e-mail to remind the deadline of June $12^{\text {th }}$ for sending the final documents to MCC. |
| 13 | Review of dates and hosts for future meetings |  |  |  | For 2001, the meeting in Australia could be in January. Agreed to have only six meetings throughout the year. |


| Agenda <br> item | Agenda item title | Tdoc <br> $3 G P P$ <br> N4-00 | Title | Source | Result |
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| $\mathbf{1 4}$ | Close |  |  |  | The meeting was closed one day in advance, an event which <br> raised a general satisfaction. The Chairman expressed his deep <br> appreciation to Siemens for the effort provided in organising a <br> successful meeting under all viewpoints. |

Plenary Meeting \#8, Düsseldorf Germany $21^{\text {st }}-23^{\text {rd }}$ June 2000

3GPP TSG CN Working Group 4 Meeting\#02
Rotenburg, Germany
22-26 May 2000

ANNEX A

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Plenary Meeting \#8, Düsseldorf Germany $21^{\text {st }}-23^{\text {rd }}$ June 2000

3GPP TSG CN Working Group 4 Meeting\#02
Rotenburg, Germany
22-26 May 2000

## ANNEX B

## List of Temporary Documents

| N4-000115 | Active Codec Set (ACS) Negotiation and Notification | NTT DoCoMo | Noted |
| :---: | :---: | :---: | :---: |
| N4-000117 | How to handle Organisation Identifier | NEC | LS drafted (0387) |
| Tdoc $n^{\circ}$ 3GPP | Title | Source | Status |
| N4-000201 | Agenda | N4 Convenor | Approved |
| N4-000202 | Tdoc allocation to agenda items | N4 Convenor | Revised |
| N4-000203 | Charleston N4\#01 meeting report | MCC | Approved |
| N4-000204 | TFO-TrFO Stockholm workshop report | MCC | Noted |
| N4-000205 | (Draft) Response to LS on Number Portability Harmonization CRs | Ericsson | Noted by T1P1 |
| N4-000206 | CR 29.002-127 on Optionality of parameters in d-csi and in sms-csi | Nokia | Revised to 320 |
| N4-000207 | CR 29.002-128 on Hexadecimal IMEI format | Nokia | Withdrawn |
| N4-000208 | CR 29.060-100 on Introduction of a different port number for GTP-C and GTP-U | Lucent | Withdrawn |
| N4-000209 | CR 29.002-130 on Version 3 Tags for handover messages for R99 | Siemens | Agreed |
| N4-000210 | CR 29.002-131 on Key exchange and distribution for MAP security for R00 | Siemens | E-mail discussion |
| N4-000211 | CR 29.002-132 on Correction of version handling at dialogue establishment | Ericsson | Agreed |
| N4-000212 | CR 09.02-A288 on Correction of version handling at dialogue establishment (phase 2) | Ericsson | Agreed |
| N4-000213 | CR 09.02-A289 on Correction of version handling at dialogue establishment (R96) | Ericsson | Agreed |
| N4-000214 | CR 09.02-A290 on Correction of version handling at dialogue establishment (R97) | Ericsson | Agreed |
| N4-000215 | CR 09.02-A291 on Correction of version handling at dialogue establishment (R98) | Ericsson | Agreed |
| N4-000216 | CR 29.002-133 on Various corrections and/or cleanup to 29.002 | Ericsson | Revised to 0357 |
| N4-000217 | CR 29.002-134 on Correction of errors in SDL for Macro Receive_Open_Ind | Ericsson | Agreed |
| N4-000218 | CR 09.02-A292 on Correction of errors in SDL for Macro Receive Open Ind (R97) | Ericsson | Agreed |
| N4-000219 | CR 09.02-A293 on Correction of errors in Receive Open Ind (R98) | Ericsson | Agreed |
| N4-000220 | CR 23.003-019 on Missing UTRAN identifiers | Ericsson | Agreed |
| N4-000221 | CR 23.135-001 on Cleanup and corrections for Multicall Stage 2 | Ericsson | E-mail approval |
| N4-000222 | CR 24.135-001 on Clarifications of the Multicall procedures | Ericsson | E-mail approval |
| N4-000223 | CR 22.004-004 on Definition of Multicall supplementary services | Ericsson | Withdrawn |
| N4-000224 | CR 23.008-029 on Addition of charging characteristics per PDP context | France Telecom | Agreed |
| N4-000225 | CR 23.016-015 on Addition of charging characteristics per PDP context | France Telecom | Agreed |
| N4-000226 | CR 29.002-135 on Addition of charging characteristics per PDP context | France Telecom | Revised to 326 |
| N4-000227 | CR 29.060-101 on Addition of charging characteristics per PDP context | France Telecom | Revised to 327 |
| N4-000228 | CR 09.02-A294 on SC access control based on NPLR | Ericsson | Rejected |
| N4-000229 | CR 03.66-A018 on SC access control based on NPLR | Ericsson | Rejected |
| N4-000230 | CR 29.002-136 on SC access control based on NPLR | Ericsson | Revised to 0335 |
| N4-000231 | CR 23.066-018 on SC access control based on NPLR | Ericsson | Revised to 0336 |
| N4-000232 | CR 23.003-020 on Hexa IMEI | Nokia | Revised to 0351 |
| N4-000233 | CR 03.03-A042 on Editorial Modification of section 6.2.2 (Phase 2) | Nokia | Revised to 342 |
| N4-000234 | CR 03.03-A043 on Editorial Modification of section 6.2.2 (R96) | Nokia | Revised to 343 |
| N4-000235 | CR 03.03-A044 on Editorial Modification of section 6.2.2 (R97) | Nokia | Revised to 344 |
| N4-000236 | CR 03.03-A045 on Editorial Modification of section 6.2.2 (R98) | Nokia | Revised to 345 |
| N4-000237 | CR 23.003-021 on Editorial Modification of section 6.2.2 (R99) | Nokia | Revised to 346 |
| N4-000238 | Response to LS (S2-000604) on Clarification on Transfer Delay value for the streaming class | N3 | Noted |


| N4-000239 | LS on Service Modification without Pre-notification | N3 | LS drafted |
| :---: | :---: | :---: | :---: |
| N4-000240 | Response LS to N4 on new specification 29.108 "Application of the Radio Access Network Application Part (RANAP) on the E-interface" | R3 | Noted |
| N4-000241 | Proposed LS To TSG-N SS ad-hoc on Service Requirements for Long Forwarded-to Numbers | S1 | Noted |
| N4-000242 | Liaison statement on Global "Cause of no ID" | S1 | Noted |
| N4-000243 | Liaison statement on hexadecimal IMEI format | S1 | LS drafted |
| N4-000244 | LS on GPRS Charging Enhancement | S5 | Noted |
| N4-000245 | How to finalize OoBTC R00 in N4 | NEC | Accepted |
| N4-000246 | CR 29.060-102 on Alignment of text with tables | Siemens | Agreed |
| N4-000247 | CR 29.002-124r2 on CAMEL Subscription Info | Siemens | Revised to 0321 |
| N4-000248 | CR 04.30-A002 on Correction of MO-LR procedure for LCS | Siemens | Agreed |
| N4-000249 | CR 24.030-002 on Correction of MO-LR procedure for LCS | Siemens | Agreed |
| N4-000250 | CR 02.66-xxx on North American Service Provider Number Portability impacts for Mobile Number Portability | Nokia, VoiceStream | Revised to 313 |
| N4-000251 | CR 03.18-A061 on North American Service Provider Number Portability impacts for Mobile Number Portability | Nokia, VoiceStream | Revised to 314 |
| N4-000252 | CR 03.66-A019 on North American Service Provider Number Portability impacts for Mobile Number Portability | Nokia, VoiceStream | Revised to 315 |
| N4-000253 | CR 22.066-xxx on North American Service Provider Number Portability impacts for Mobile Number Portability | Nokia, VoiceStream | Revised to 316 |
| N4-000254 | CR 23.018-052 on North American Service Provider Number Portability impacts for Mobile Number Portability | Nokia, VoiceStream | Revised to 317 |
| N4-000255 | CR 23.066-019 on North American Service Provider Number Portability impacts for Mobile Number Portability | Nokia, VoiceStream | Revised to 318 |
| N4-000256 | CR 29.060-103 on UDP port usage for GTP-C | Lucent | Rejected |
| N4-000257 | CR 29.060-104 on TEID usage clarification in GTP-C | Lucent | Rejected |
| N4-000258 | CR 29.060-105 on Race conditions avoidance | Lucent | Agreed |
| N4-000259 | CR 29.060-106 on Removal of Connection oriented paths | Lucent | Agreed |
| N4-000260 | CR 29.060-107 on GTP flow definition removal | Lucent | Withdrawn |
| N4-000261 | CR 29.060-108 on the use of the Sequence number in GTP-C | Lucent | Agreed |
| N4-000262 | CR 29.060-109 on the N-PDU number in GTP-C | Lucent | Agreed |
| N4-000263 | CR 09.60-A085 on Use of 3 Digit MNCs in GTP for R'97 | Nortel Networks | Agreed |
| N4-000264 | CR 29.002-138 on Clarification of SAl-ack segmentation procedure | Nortel Networks | Agreed |
| N4-000265 | Iu UP handling and RFCI allocation procedures in CN | Ericsson | Noted |
| N4-000266 | CR 09.02-A295 on Indication of unsupported position method | Nokia | Revised to 0391 |
| N4-000267 | CR 29.002-139 on Indication of unsupported position method | Nokia | Revised to 0392 |
| N4-000268 | CR 29.060-110 on Editorial modifications | Ericsson | Revised to 0329 |
| N4-000269 | CR 29.060-111 on Editorial modifications concerning GTP-U and GTP-C | Ericsson | Revised to 0341 |
| N4-000270 | CR 29.060-112 on Introducing Supported Extension Headers Notification to GTP-U | Ericsson | Agreed |
| N4-000271 | CR 29.060-113 on Missing IEs in GTP-C Error Indication | Ericsson | Agreed |
| N4-000272 | CR 29.060-087r1 on Reliable delivery of signalling messages | Ericsson | Agreed |
| N4-000273 | CR 29.002-140 on Addition of the PS description for LCS to 29.002 | NTC/Fujitsu | Postponed |
| N4-000274 | CR 09.02-A296 on Clarification for ReportSM-DeliveryStatus operation | Nokia | Agreed |
| N4-000275 | CR 09.02-A297 on Clarification for ReportSM-DeliveryStatus operation | Nokia | Agreed |
| N4-000276 | CR 29.002-141 on Clarification for ReportSM-DeliveryStatus operation | Nokia | Agreed |
| N4-000277 | CR 29.002-142 on addition of a parameter in the subsequent Handover from UMTS to GSM with Multicall | NTT Comware/ Ericsson | Revised to 349 |
| N4-000278 | CR 29.002-143 on editorial correction to MSC-A handover SDLs | NTT Comware | Agreed |
| N4-000279 | CR 29.060-114 on Clarification of the Cause of Create PDP Context Response | NTT Software | Agreed |
| N4-000280 | CR 29.060-115 on Clarification of the TEID for Signalling | NTT Software | Agreed |
| N4-000281 | CR 29.060-116 on Clarification on the TEID for Signalling of the PDU Notification Reject Request | NTT Software | Agreed |
| N4-000282 | CR 29.060-117 on Clarification of the conditional information elements | NTT Software | Revised to 0330 |
| N4-000283 | Requirement on Network to Tear Down Calls to Accept EC in Multicalls Unnecessary | Ericsson | Noted |
| N4-000284 | Candidate for the position of 3GPP TSG CN WG4 Chairman | Ericsson | Noted |
| N4-000285 | CR 23.060-xxx on Compatibility GTPv0/GTPv1 in case of SGSN change | Siemens | Withdrawn |
| N4-000286 | CR 09.60-A086 on Clarification of the Cause of Create PDP Context Response | NTT Software | Withdrawn |
| N4-000287 | CR 09.60-A087 on Clarification of the Cause of Create PDP Context Response | NTT Software | Withdrawn |
| N4-000288 | CR 29.002-144 on Use of NAM parameter with MAP-INSERT- | NortelNetworks | Revised to 0378 |


|  | SUBSCRIBER-DATA service between HLR and SGSN |  |  |
| :---: | :---: | :---: | :---: |
| N4-000289 | CR 09.02-A298 on Use of NAM parameter with MAP-INSERT-SUBSCRIBER-DATA service between HLR and SGSN (Release 97) | Nortel Networks | Revised to 0376 |
| N4-000290 | CR 09.02-A299 on Use of NAM parameter with MAP-INSERT-SUBSCRIBER-DATA service between HLR and SGSN (Release 98) | Nortel Networks | Revised to 377 |
| N4-000291 | CR 23.082-007 on Inclusion of service requirements from TSG-S1 | Vodafone AirTouch | Revised to 0348 |
| N4-000292 | 'Introduction of IP as transport for MAP | Nortel Networks | Noted |
| N4-000293 | CR 29.002-145 on Addition of state attributes in Forward group call signalling | Siemens | Agreed |
| N4-000294 | CR 29.002-146 on New user error 'target cell outside group call area' in MAP Prepare Handover message | Siemens | Agreed |
| N4-000295 | CR 29.060-118 on Presence condition of the TEID for signalling | Fujitsu | Withdrawn |
| N4-000296 | CR 29.060-119 on Clarification on the use of SGSN address at PDU notification procedure | Fujitsu | Agreed |
| N4-000297 | Use IPSec to secure GTP messages | Motorola | Noted |
| N4-000298 | LS on GPRS Charging Characteristics | S5 | LS dratted (325) |
| N4-000299 | CR 23.081-xxx on Cause of no CLI indication | Nokia | Revised to 0352 |
| N4-000300 | CR 24.081 on Cause of no CLI indication v.3.0.0 | Nokia | Revised to 0353 |
| N4-000301 | Cause of no CLI indication | Nokia |  |
| N4-000302 | Work Item Management | N4 Convenor | Noted |
| N4-000303 | CR 29.002-147 on Confirmation of deletion of GPRS subscription data. | Vodafone AirTouch | E-mail approval |
| N4-000304 | CR 29.002-148 on Changes to the MAP protocol machine for secure MAP transport | Vodafone AirTouch | Revised to 332 |
| N4-000305 | CR 04.80-017 on Correction of definition of Deflected-to number | T-Mobil | Agreed |
| N4-000306 | CR 24.080-004 on Correction of definition of Deflected-to number | T-Mobil | Agreed |
| N4-000307 | CR 23.081-xxx on Introduction of ACR support for CLIP according to ISUP 2000 | T-Mobil | Covered elsewhere |
| N4-000308 | Evaluation of the impact on positive authentication reporting on network performance | S3 | Duplication of 0362 |
| N4-000309 | LS on Service Modification without Pre-notification | T2 | Noted |
| N4-000310 | LS on Address Translation in MMS R'00 | T2 | Noted |
| N4-000311 | MAP Signalling Security Functionality out of service | Noki | Withdrawn |
| Na-000312 | MAP entity restart | Nokia | Withdrawn |
| N4-000313 | CR 02.66-xxx on North American Service Provider Number Portability impacts for Mobile Number Portability (rev. of 250) | VoiceStream | Withdrawn |
| N4-000314 | CR 03.18-A061r1 on North American Service Provider Number Portability impacts for Mobile Number Portability (rev. of 251) | VoiceStream | Withdrawn |
| N4-000315 | CR 03.66-A019r1 on North American Service Provider Number Portability impacts for Mobile Number Portability (Rev of 252) | VoiceStream | Withdrawn |
| N4-000316 | CR 22.066-xxx on North American Service Provider Number Portability impacts for Mobile Number Portability (Rev. of 253) | VoiceStream | Revised to 0333 |
| N4-000317 | CR 23.018-052r1 on North American Service Provider Number Portability impacts for Mobile Number Portability (Rev. of 254) | VoiceStream | Revised to 334 |
| N4-000318 | CR 23.066-019r1 on North American Service Provider Number Portability impacts for Mobile Number Portability (Rev. of 255) | VoiceStream | Revised to 338 |
| N4-000319 | Proposed LS back on Service Modification without Pre-notification | NEC | Revised to 331 |
| N4-000320 | CR 29.002-127r1 on Optionality of parameters in d-csi and in sms-csi (Revision of 206) | Nokia | Agreed |
| N4-000321 | CR 29.002-124r3 on CAMEL Subscription Info | Siemens | Agreed |
| N4-000322 | T1-713-2000 PCS 1900 Specification | Nokia |  |
| N4-000323 | CR 29.060-120 on Removal of the PT flag from GTP-C and GTP-U | Lucent | Rejected |
| N4-000324 | CR 29.060-100r1 on Introduction of a different port number for GTP-C and GTP-U | Lucent | Agreed |
| N4-000325 | LS to S5 on | Vodafone AirTouch | $\begin{array}{\|c\|} \hline \begin{array}{c} \text { Approved (still to } \\ \text { be sent out) } \end{array} \\ \hline \end{array}$ |
| N4-000326 | CR 29.002-135r1 on Addition of charging characteristics per PDP context (Revision of 226) | France Telecom | Agreed |
| N4-000327 | CR 29.060-101r1 on Addition of charging characteristics per PDP context (Revision of 227) | France Telecom | Agreed |
| N4-000328 | LS to S1, S2 on Proposed LS on Race conditions avoidance | Lucent | Revised to 340 |
| N4-000329 | CR 29.060-110r1 on Editorial modifications (Revision of 0268) | Ericsson | Agreed |
| N4-000330 | CR 29.060-117r1 on Clarification of the conditional information elements (Revision of 0282) | NTT Software | Revised to 0347 |
| N4-000331 | Proposed LS back on Service Modification without Pre-notification (Revision of 0319) | NEC | Approved |
| N4-000332 | CR 29.002-148r1 on Changes to the MAP protocol machine for secure MAP | Vodafone AirT | Revised to 339 |


|  | transport (Rev. of 304) |  |  |
| :---: | :---: | :---: | :---: |
| N4-000333 | CR 22.066-xxx on North American Service Provider Number Portability impacts for Mobile Number Portability (revised) | NorthStream/Nokia | Endorsed (send to S1) |
| N4-000334 | CR 23.018-052r2 on North American Service Provider Number Portability impacts for Mobile Number Portability (revision of 0317) | NorthStream/Nokia | Agreed |
| N4-000335 | CR 29.002-136r1 on SC access control based on NPLR (Rev. of 230) | Ericsson |  |
| N4-000336 | CR 23.066-018r1 on SC access control based on NPLR (Rev. of 231) | Ericsson | E-mail discussion |
| N4-000337 | Proposed LS on Functions of Key Distribution and Key Administration for MAP security | S5 | LS drafted |
| N4-000338 | CR 23.066-019r2 on North American Service Provider Number Portability impacts for Mobile Number Portability (Revision of 0318) | VoiceStream/Nokia | Agreed |
| N4-000339 | CR 29.002-148r2 on Changes to MAP for secure MAP transport (Revision of 332) | Vodafone AirTouch | Revised to 361 |
| N4-000340 | LS to S1, S2 on Proposed LS on Race conditions avoidance (Rev. of 0328) | Lucent | Approved |
| N4-000341 | CR 29.060-111r1 on Editorial modifications concerning GTP-U and GTP-C (Rev. of 269) | Ericsson | Agreed |
| N4-000342 | CR 03.03-A042r1 on Editorial Modification of section 6.2.2 (Ph2) (Rev. of 233) | Nokia | Agreed |
| N4-000343 | CR 03.03-A043r1 on Editorial Modification of section 6.2.2 (R96) (Rev. of 234) | Nokia | Agreed |
| N4-000344 | CR 03.03-A044r1 on Editorial Modification of section 6.2.2 (R97) (Rev. of 235) | Nokia | Agreed |
| N4-000345 | CR 03.03-A045r1 on Editorial Modification of section 6.2.2 (R98) (Rev. of 236) | Nokia | Agreed |
| N4-000346 | CR 23.003-021r1 on Editorial Modification of section 6.2.2 (R99) (Rev. of 237) | Nokia | Agreed |
| N4-000347 | CR 29.060-117r2 on Clarification of the conditional information elements | NTT Software | Agreed |
| N4-000348 | CR 23.082-007r1 on Inclusion of service requirements from TSG-S1 (Revision of 291) | Vodafone AirTouch | Agreed |
| N4-000349 | CR 29.002-142r1 on addition of a parameter in the subsequent Handover from UMTS to GSM with Multicall (Revision of 277) | NTT Comware | Agreed |
| N4-000350 | CR to 23.009 on Handover scenario for Multicall | NTT Comware/ Ericsson | Noted. Inform Ban |
| N4-000351 | CR 23.003-020r1 on Hexa IMEI (Revision of 232) | Nokia | Revised |
| N4-000352 | CR 23.081-xxx on Cause of no CLI indication (Revision of 299) | NTC/Nokia | E-mail discussion |
| N4-000353 | CR 24.081-xxx on Cause of no CLI indication v.3.0.0 (Revision of 300) | NTC/Nokia | E-mail discussion |
| N4-000354 | Liaison statement on Global solution of "Cause of no CLI" | N1 | LS drafted |
| N4-000355 | LS to S1 on hexa IMEI for R99 | Nokia | Revised to 384 |
| N4-000356 | LS to R3 on UTRAN Identifiers in TS 25.401 | Ericsson | Approved (still to be sent out) |
| N4-000357 | CR 29.002-133r1 on Various corrections and/or cleanup to 29.002 (Rev. of 0216) | Ericsson | Agreed |
| N4-000358 | LS about hexadecimal coding of IMEI | S3 | Noted |
| N4-000359 | Liaison Statement on Protocol Choice for Layer I of MAP Security | S3 | Noted |
| N4-000360 | Proposed CLI mapping | T-Mobil |  |
| N4-000361 | CR 29.002-148r3 on Changes to MAP for secure MAP transport (Rev. of 339) | Vodafone AirTouch | E-mail discussion |
| N4-000362 | Evaluation of the impact on positive authentication reporting on network performance | S3 | LS drafted |
| N4-000363 | LS to S3 on protection method to be used for GTP signalling | Vodafone AirTouch | Approved |
| N4-000364 | Response LS to S3 on positive authentication reporting on network performance | Ericsson | Approved (go to CN ) |
| N4-000365 | Consequences of not accepting CR 29.060-120 on PT bit removal | Lucent |  |
| N4-000366 | Response LS to S3, S5 on Key Exchange and Key Distribution | T-Mobil | Approved |
| N4-000367 | Proposed e-mail approval procedure | Chairman | Rejected |
| N4-000368 | Output documents | Chairman | Revised to 0388 |
| N4-000369 | Response LS to N1 | NTC | Revised to 0385 |
| N4-000370 | CR 09.02-A300 on Correction to the description of MAP-Forward-ShortMessage service (Phase 2) | Ericsson | Agreed |
| N4-000371 | CR 09.02-A301 on Correction to the description of MAP-MO-Forward-ShortMessage service (R96) | Ericsson | Agreed |
| N4-000372 | CR 09.02-A302 on Correction to the description of MAP-MO-Forward-ShortMessage service (R97) | Ericsson | Agreed |
| N4-000373 | CR 09.02-A303 on Correction to the description of MAP-MO-Forward-ShortMessage service (R98) | Ericsson | Agreed |
| N4-000374 | CR 29.002-149 on Correction to the description of MAP-MO-Forward-Short- | Ericsson | Agreed |


|  | Message service (R99) |  |  |
| :---: | :---: | :---: | :---: |
| N4-000375 | LS to CN on OoBTC | NEC | Revised to 0387 |
| N4-000376 | CR 29.002-144r1 on Use of NAM parameter with MAP-INSERT- SUBSCRIBER-DATA service between HLR and SGSN (Rev. of 0289) | Nortel Networks | Agreed |
| N4-000377 | CR 09.02-A299r1 on Use of NAM parameter with MAP-INSERT- SUBSCRIBER-DATA service between HLR and SGSN (R98) (Rev. of 0290) | Nortel Networks | Agreed |
| N4-000378 | CR 29.002-144r1 on Use of NAM parameter with MAP-INSERT-SUBSCRIBER-DATA service between HLR and SGSN (Rev. of 0288) | Nortel Networks | Agreed |
| N4-000379 | Duplication of 0391 | Nokia | Withdrawn |
| N4-000380 | Duplication of 0392 | Nokia | Withdrawn |
| N4-000381 | CR 29.002-136r2 | Ericsson | Withdrawn |
| N4-000382 | CR 23.066-018r2 | Ericsson | Withdrawn |
| N4-000383 | CR 23.012-006 on Introduction of Mobility Management event notification into 23.012 procedures | N2 | Postponed |
| N4-000384 | LS to S1 on hexa IMEI for R99 (Revision of 0355) | Nokia | Revised to 0386 |
| N4-000385 | Response LS to N1 on Global solution of "Cause of no CLI" (Rev. of 0369) | NTC | Approved (to be sent out) |
| N4-000386 | LS to S1 on hexa IMEI for R99 (Revision of 0384) | Nokia | Approved (to be sent out) |
| N4-000387 | LS to CN on OoBTC (Revision of 0375) | NEC | Approved (to be sent out) |
| N4-000388 | Output documents (Revision of 0368) | Chairman | Approved |
| N4-000389 | CR 03.03 on Use of 3 Digits MNC in GTP for Release 97 | Nortel Networks | E-mail approval |
| N4-000390 | CR 23.081 on Cause of no CLI Indication | Nokia/T-Mobil | E-mail approval |
| N4-000391 | CR 09.02-A295r1 on Indication of unsupported position method (Revision of 266) | Nokia | E-mail approval |
| N4-000392 | CR 29.002-139r1 on Indication of unsupported position method (Rev. of 267) | Nokia | E-mail approval |
| N4-000393 | CR 29.002 on Send Authentication Info SDLs | Siemens | E-mail approval |
| N4-000394 | CR 23.018-xxx on Active Location Retrieval | Vodafone, FT | E-mail approval |
| N4-000395 | Revision of 221 | Ericsson | E-mail approval |
| N4-000396 | Revision of 222 | Ericsson | E-mail approval |

Plenary Meeting \#8, Düsseldorf Germany $21^{\text {st }}-23^{\text {rd }}$ June 2000

3GPP TSG CN Working Group 4 Meeting\#02
Rotenburg, Germany
22-26 May 2000

## ANNEX C

## List of approved CRs

| Tdoc $\mathbf{n}^{\circ}$ <br> 3GPP | Title | Source |
| :--- | :--- | :--- |
| N4-000209 | CR 29.002-130 on Version 3 Tags for handover messages for R99 | Siemens |
| N4-000211 | CR 29.002-132 on Correction of version handling at dialogue establishment |  |
| Ericsson |  |  |
| N4-000212 | CR 0.9.02-A288 on Correction of version handling at dialogue establishment <br> (phase 2) |  |
| Ericsson |  |  |


| N4-000306 | CR 24.080-004 on Correction of definition of Deflected-to number | T-Mobil |
| :---: | :---: | :---: |
| N4-000320 | CR 29.002-127r1 on Optionality of parameters in d-csi and in sms-csi (Revision of 206) | Nokia |
| N4-000321 | CR 29.002-124r3 on CAMEL Subscription Info | Siemens |
| N4-000324 | CR 29.060-100r1 on Introduction of a different port number for GTP-C and GTP-U | Lucent |
| N4-000326 | CR 29.002-135r1 on Addition of charging characteristics per PDP context (Revision of 226) | France Telecom |
| N4-000327 | CR 29.060-101r1 on Addition of charging characteristics per PDP context (Revision of 227) | France Telecom |
| N4-000329 | CR 29.060-110r1 on Editorial modifications (Revision of 0268) | Ericsson |
| N4-000334 | CR 23.018-052r2 on North American Service Provider Number Portability impacts for Mobile Number Portability (revision of 0317) | NorthStream/Nokia |
| N4-000338 | CR 23.066-019r2 on North American Service Provider Number Portability impacts for Mobile Number Portability (Revision of 0318) | VoiceStream/Nokia |
| N4-000341 | CR 29.060-111r1 on Editorial modifications concerning GTP-U and GTP-C (Rev. of 269) | Ericsson |
| N4-000342 | CR 03.03-A042r1 on Editorial Modification of section 6.2.2 (Ph2) (Rev. of 233) | Nokia |
| N4-000343 | CR 03.03-A043r1 on Editorial Modification of section 6.2.2 (R96) (Rev. of 234) | Nokia |
| N4-000344 | CR 03.03-A044r1 on Editorial Modification of section 6.2.2 (R97) (Rev. of 235) | Nokia |
| N4-000345 | CR 03.03-A045r1 on Editorial Modification of section 6.2.2 (R98) (Rev. of 236) | Nokia |
| N4-000346 | CR 23.003-021r1 on Editorial Modification of section 6.2.2 (R99) (Rev. of 237) | Nokia |
| N4-000347 | CR 29.060-117r2 on Clarification of the conditional information elements | NTT Software |
| N4-000348 | CR 23.082-007r1 on Inclusion of service requirements from TSG-S1 (Revision of 291) | Vodafone AirTouch |
| N4-000349 | CR 29.002-142r1 on addition of a parameter in the subsequent Handover from UMTS to GSM with Multicall (Revision of 277) | NTT Comware |
| N4-000357 | CR 29.002-133r1 on Various corrections and/or cleanup to 29.002 (Rev. of 0216) | Ericsson |
| N4-000370 | CR 09.02-A300 on Correction to the description of MAP-Forward-ShortMessage service (Phase 2) | Ericsson |
| N4-000371 | CR 09.02-A301 on Correction to the description of MAP-MO-Forward-ShortMessage service (R96) | Ericsson |
| N4-000372 | CR 09.02-A302 on Correction to the description of MAP-MO-Forward-Short- Message service (R97) | Ericsson |
| N4-000373 | CR 09.02-A303 on Correction to the description of MAP-MO-Forward-ShortMessage service (R98) | Ericsson |
| N4-000374 | CR 29.002-149 on Correction to the description of MAP-MO-Forward-ShortMessage service (R99) | Ericsson |
| N4-000376 | CR 29.002-144r1 on Use of NAM parameter with MAP-INSERT-SUBSCRIBER-DATA service between HLR and SGSN (Rev. of 0289) | Nortel Networks |
| N4-000377 | CR 09.02-A299r1 on Use of NAM parameter with MAP-INSERT-SUBSCRIBER-DATA service between HLR and SGSN (R98) (Rev. of 0290) | Nortel Networks |
| N4-000378 | CR 29.002-144r1 on Use of NAM parameter with MAP-INSERT-SUBSCRIBER-DATA service between HLR and SGSN (Rev. of 0288) | Nortel Networks |

Plenary Meeting \#8, Düsseldorf Germany
$21^{\text {st }}-23^{\text {rd }}$ June 2000

3GPP TSG CN Working Group 4 Meeting\#02
Rotenburg, Germany
22-26 May 2000

## ANNEX D <br> List of Approved Liaison Statements

| TdOC | Title |  |
| :--- | :--- | :--- |
| N4-000331 | LS response on Service Modification without Pre-notification | N3 |
| N4-000340 | LS on Race conditions avoidance | N1, S2 |
| N4-000363 | LS on GTP signalling security | S3 |
| N4-000366 | LS to on Key Exchange and Key Distribution | S3, S5 |
| N4-000364 | LS on positive authentication reporting on network performance | S3, TIA TR-45 AHAG (via CN) |
| N4-000325 | LS on GPRS Charging Characteristics | S5 |
| N4-000356 | LS on UTRAN Identifiers in TS 25.401 | R3 |
| N4-000385 | LS response on Global solution of "Cause of no CLI" | N1 |
| N4-000386 | LS on hexadecimal IMEI | S1, CN |
| N4-000387 | LS on request for co-ordination about OID handling | CN |

