**3GPP TSG CT WG1 Meeting#122** ***C1-200203***

**Electronic meeting, 20-28 February 2020**

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| Meeting documents by agenda itemMeeting:Meeting #122-eElectronic meeting20 - 28 February 2020**All indicated times are CET** |
| Cyan background means allocated but not available. | Yellow background means available but not yet treated document. | Green background means this document was agreed at a revious meeting in this plenary cycle. | White background means that the document has been handled in the meeting and a decision has been made. |
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|  | Additional Colour coding for Tdocs in the 1st row |
|  | Late Papers |
|  | Easy and uncontroversial papers – can be presented within 2 minutes |
|  | Papers for common sessions |
|  | Low Priority |
|  |
| Agenda item | Agenda item title | Tdoc | Title | Source | Spec | Result |
|  | Opening & welcome | Tdoc | Title | Source | Spec | Result |
|  |  |  |  |  |  |  |
|  |  | **IPR Policy**Reminder to Individual Members and the persons making the technical proposals about their obligations under their respective Organizational Partners IPR Policy:I draw your attention to your obligations under the 3GPP Partner Organizations' IPR policies. Every Individual Member organization is obliged to declare to the Partner Organization or Organizations of which it is a member any IPR owned by the Individual Member or any other organization which is or is likely to become essential to the work of 3GPP. |
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|  |  | **Antitrust & Competition**I also draw your attention to the fact that 3GPP activities are subject to all applicable antitrust and competition laws and that compliance with said laws is therefore required of any participant of this TSG/WG meeting including the Chairman and Vice Chairman. In case of question I recommend that you contact your legal counsel.The leadership shall conduct the present meeting with impartiality and in the interests of 3GPP.Furthermore, I would like to remind you that timely submission of work items in advance of TSG/WG meetings is important to allow for full and fair consideration of such matters. |
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|  |  | **Usage if WiFi**During 3GPP meetings, IT support staff have noticed an increasing amount of RF pollution from private, ad hoc, wireless networks (Wi-Fi Direct, hot-spots hosted on mobile phones, …), and this gives rise to reduced throughput capability of the 3GPP WLAN. I would like to remind delegates to disable all such non-3GPP Wi-Fi networks while they are in the meeting rooms or adjacent areas. This will allow the quality of connection to the 3GPP Wi-Fi network which delegates have a right to expect. |
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|  |  | **Statement Regarding Engagement with Companies Added to the****U.S. Export Administration Regulations (EAR) Entity List in 3GPP Activities**1. Public Information is Not Subject to EAR3GPP is an open platform where all contributions (including technology protected or not by patent) made by the different Individual Members under the membership of each respective Organizational Partner are publicly available. Indeed, contributions by all and any Individual Members are uploaded to a public file server when received and then the documents are effectively in the public domain.In addition, since membership of email distribution lists is open to all, documents and emails distributed by that means are considered to be publicly available.As a result, information contained in 3GPP contributions, documents, and emails distributed at 3GPP meetings or by 3GPP email distribution lists, because it is made available to the public without restrictions upon its further dissemination, is not subject to the export restrictions of the EAR.Meeting minutes are maintained for 3GPP meetings. Such meeting minutes for 3GPP meetings are made available to the public without restrictions upon its further dissemination. As a result, information, including information conveyed orally, contained in 3GPP meetings is not subject to the export restriction of the EAR; this would include information conveyed during side meetings that may occur during the main meetings, if these meetings are open to any participants and the results of all said meetings are publicly available without restrictions upon their further dissemination.2. Non-Public InformationNon-public information refers to the information not contained or not intended to be contained in 3GPP contributions, documents or emails. Such non-public information may be disclosed during informal meetings, exchanges, discussions or any form of other communication outside the 3GPP meetings and email distribution lists, and may be subject to the EAR.3. Other InformationCertain encryption software controlled under the International Traffic in Arms Regulations (ITAR), even if publicly available, may still be subject to US export controls other than the EAR.4. Conduct of MeetingsThe situation should be considered as "business as usual" during all the meetings called by 3GPP.5. Responsibility of Individual MembersIt should be remembered that contributions, meetings, exchanges, discussions or any form of other communication in or outside the 3GPP meetings are of the accountability, integrity and the responsibility of each Individual Member. In addition, Individual Members remain responsible for ensuring their compliance with all applicable export control regulations, including but not limited to EAR.Individual Members with questions regarding the impact of laws and regulations on their participation in 3GPP should contact their companies’ legal counsels. |
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|  |  | Please remember: - to perform the electronic registration before end-of-meeting  - to wear your badge  |
|  |  |  |  |  |  |  |
|  | Agenda & Reports | Tdoc | Title | Source | Doctype | Result & comments |
|  |  | C1-200275 | 3GPP TSG CT1#122 – agenda after Tdoc allocation deadline | CT1 chairman | agenda  | Revision of C1-200200 |
|  |  | C1-200201 | 3GPP TSG CT1#122 – agenda after Tdoc allocation deadline | CT1 chairman | agenda  |  |
|  |  | C1-200202 | 3GPP TSG CT1#122 – agenda with proposed LS-actions | CT1 chairman | agenda  |  |
|  |  | C1-200203 | 3GPP TSG CT1#122 – agenda at start of meeting | CT1 chairman | agenda  |  |
|  |  | C1-200204 | 3GPP TSG CT1#122 – agenda Thursday (27th Feb) evening  | CT1 chairman | agenda |  |
|  |  | C1-200205 | 3GPP TSG CT1#122 – agenda at end of meeting | CT1 chairman | agenda  |  |
|  |  | [C1-200307](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200307.zip) | draft C1-121 meeting report | MCC | report  |  |
|  |  |  |  |  |  |  |
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|  |  |  |  |  |  | Highest number shown in the 0775 |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  | **Agenda** 1 Opening 2 Agenda and Reports 3 work organization  4 incoming LS Rel-16**Rel-16:**  16.1.x Work items (4) 16.2.3 SAES16 (all aspects) (0) only revisions of CRs agreed in CT1#121bis-e and disc papers supporting LSs 16.2.4 5GProtoc16 (all aspects) (5) only revisions of CRs agreed in CT1#121bis-e and disc papers supporting LSs 16.2.21 Rel-16 non-IMS issues (0) only revisions of CRs agreed in CT1#121bis-e and disc papers supporting LSs**Agenda Items from 16.2** 16.2.2 SINE\_5G (4) 16.2.5 ATSSS (28) 16.2.6 eNS (51) 16.2.7.x vertical-LAN (79) 16.2.8 5G\_CIoT (44) 16.2.9 5WWC (25) 16.2.11 5G\_eLCS (2) 16.2.14 RACS (16) 16.2.15 5G\_SRVCC (2) 16.2.16 xBDT (0) 16.2.17 IAB-CT (0) 16.2.18 5GS\_OTAF (0) 16.2.19 5G\_URLLC (2) 16.2.20 SEAL (51) 16.2.1 ePWS (5) 16.2.10 PARLOS (7) 16.2.12 V2XAPP (13) 16.2.13 eV2XARC (35)**Agenda Items from 16.3** 16.3.1 MCCI\_CT (7) 16.3.2 MCProtoc16 (5) 16.3.5 MCSMI\_CT (0) 16.3.6 eMCDATA2 (19) 16.3.10 MONASTERY2 (8) 16.3.12 enh2MCPTT-CT (9) 16.3.3 MuD (15) 16.3.4 IMSProtoc16 (3) 16.3.7 E2E\_DELAY (0) 16.3.8 VBCLTE (0) 16.3.11 eIMS5G\_SBA (1) 16.3.13 eIMSVideo (8) 16.3.14 IMS/MC TEI16 (3) 18 outgoing LS Rel-16 |
|  |  |  |
|  | Work organisation  | Tdoc | Title | Source | To / CC | Result & comments |
|  | Meeting schedule |  |  |
|  |  |  | CT1 and CT plenary meeting dates. |
|  |  |  | Date | Meeting | Venue |
|  |  |  | *13 – 17 January* | [*CT1-Potential Ad-Hoc*](https://portal.etsi.org/webapp/MeetingCalendar/MeetingDetails.asp?m_id=36254) | *cancelled* |
|  |  |  | 16 – 22 January | CT1#121bis-e  | Electronic Meeting |
|  |  |  | *24 – 28 February* | *CT1#122* | *cancelled* |
|  |  |  | 20 – 28 February | CT1#122-e | Electronic Meeting |
|  |  |  | 16 – 17 March 2020 | CT plenary #87 | Jeju, Korea |
|  |  |  | 20 – 24 April | CT1#123 | Dubrovnik, Croatia |
|  |  |  | 25 – 29 May | CT1#124 | Dalian, China |
|  |  |  | 15 – 16 June 2020 | CT plenary #88 | Malmö, Sweden |
|  |  |  | 13 – 17 July | [CT1-Potential Ad-Hoc](https://portal.etsi.org/webapp/MeetingCalendar/MeetingDetails.asp?m_id=36254) | TBD |
|  |  |  | 24 – 28 August | CT1#125 | US |
|  |  |  | 14 – 15 September 2020 | CT plenary #89 | Funchal, Madeira |
|  |  |  | 12 – 16 October | CT1#126 | India |
|  |  |  | 16 – 20 November | CT1#127 | US |
|  |  |  | 7 – 8 December 2020 | CT plenary #90 | NAF |
|  |  |  | 25 – 29 January 2021 | CT1#127bis  | tbd |
|  |  |  | 01- 05 March 2021 | CT1#128 | tbd |
|  |  |  | 22 – 23 March 2021 | CT plenary #91 | US |
|  |  |  | 19 – 23 April 2021 | CT1#129 | tbd |
|  |  |  | 24 – 28 May 2021 | CT1#130 | tbd |
|  |  |  | 14 – 15 June 2021 | CT plenary #91 | Japan |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  | Work Plan and other adm. issues | Tdoc | Title | Source | Spec /doctype | Result & comments |
|  |  | [C1-200306](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200306.zip) | work plan | MCC | Work Plan  |  |
|  |  | [C1-200312](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200312.zip) | CT1#122-e Electronic Meeting – Process and Scope  | CT1 chairman | other  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  | Input Liaison statements | Tdoc | Title | Source | To / CC | Result & comments |
|  |  | [C1-200206](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200206.zip) | LS on usage of IMSI during 3GPP based authentication (C4-195574) | CT4 | Cc | Proposed Noted |
|  |  | [C1-200207](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200207.zip) | LS on user identity when 5G-AKA or EAP AKA’ is used for SNPN (C6-190468) | CT6 | To | Proposed NotedSA3 reply in C1-200255 |
|  |  | [C1-200208](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200208.zip) | LS on Proposal to transfer the study on service-based support for SMS in 5GC to CT WGs (CP-193301) | TSG CT | Cc | PostponedLS pertains to Rel-17 |
|  |  | [C1-200209](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200209.zip) | Reply LS to Transfer the study on service-based support for SMS in 5GC to CT WGs (SP-191362) | TSG SA | Cc | PostponedLS pertains to Rel-17 |
|  |  | [C1-200210](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200210.zip) | Response to 3GPP S2-1910806 and S2-1912767 on Line ID (LIAISE-353) | Broadband Forum | To | Proposed NotedSA2 has already handled the incoming LS |
|  |  | [C1-200211](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200211.zip) | General Status of Work (LIAISE-363à | Broadband Forum | To  | Proposed tbdReply neededProposed LS out in C1-200309 |
|  |  | [C1-200212](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200212.zip) | LS on Testing and Certification of 3GPP Mission Critical features A GCF-TCCA Joint Approach to Develop and Manage MC Certification ( | TCCA | Cc | Proposed Noted |
|  |  | [C1-200213](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200213.zip) | Reply LS on QoE Measurement Collection (R2-1916328) | RAN2 | Cc | Proposed Noted |
|  |  | [C1-200214](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200214.zip) | Reply LS on NID structure and length (R2-1916344) | RAN2 | Cc | Proposed NotedRelated CR in C1-200334 |
|  |  | [C1-200215](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200215.zip) | CMAS/ETWS and emergency services for SNPNs (R2-1916345) | RAN2 | Cc | Proposed Noted |
|  |  | [C1-200216](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200216.zip) | Reply LS on Sending CAG ID in NAS layer (R2-1916349) | RAN2 | Cc | Proposed NotedRelated DP in C1-200335 and CR in C1-200337 |
|  |  | [C1-200217](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200217.zip) | Reply LS on Mobile-terminated Early Data Transmission (R2-1916368) | RAN2 | To | Proposed tbdProposed LS out in C1-200707CR in C1-200368 |
|  |  | [C1-200218](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200218.zip) | Reply LS on assistance indication for WUS (R2-1916440) | RAN2 | To | Proposed NotedSeems no reply needed |
|  |  | [C1-200219](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200219.zip) | Reply LS on PC5S and PC5 RRC unicast message protection (R2-1916461) | RAN2 | Cc | Proposed Noted |
|  |  | [C1-200220](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200220.zip) | LS on dependencies on AS design for mobility management aspects of NTN in 5GS (R2-1916470) | RAN2 | Cc | Proposed NotedC1-200220 from RAN2 and C1-200269 from RAN3 are both replies to the same LS from SA2 (S2-1910786) |
|  |  | [C1-200221](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200221.zip) | LS on RRC establishment cause value in EPS voice fallback from NR to E-UTRAN (R2-1916530) | RAN2 | To  | Proposed tbdTEI16, potentially changes to 24.301 neededProposed LS out in C1-200710 |
|  |  | [C1-200222](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200222.zip) | LS on inter-RAT HO from SA to EN-DC (R2-1916600) | RAN2 | Cc | Proposed Noted |
|  |  | [C1-200223](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200223.zip) | LS on LS on system level design assumptions for satellite in 5GS (R2-1916620) | RAN2 | Cc | Proposed NotedC1-200223 from RAN2 and C1-200269 from RAN3 are both replies to the same LS from SA2  (S2-1910787) |
|  |  | [C1-200224](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200224.zip) | Reply LS on extended NAS timers for CE in 5GS (R2-1916623) | RAN2 | To | Proposed tbdProposed LS out in C1-200717Related CRs in C1-200383 - C1-200384 |
|  |  | [C1-200225](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200225.zip) | Reply LS on Sending CAG ID in NAS layer (R3-197591) | RAN3 | Cc | Proposed NotedRelated DP in C1-200335 and CR in C1-200337 |
|  |  | [C1-200226](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200226.zip) | LS on Concurrent Broadcasting for CMAS (R3-197749) | RAN3 | To | PostponedLS pertains to Rel-15Proposed LS out in C1-200764 |
|  |  | [C1-200227](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200227.zip) | Reply LS on UAC for NB-IOT (S1-193592) | SA1 | Cc | Proposed NotedIs related at least to CRs in C1-200397, C1-200421, C1-200677 |
|  |  | [C1-200228](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200228.zip) | Reply LS on enhanced access control for IMS signalling (S1-193595) | SA1 | To | Proposed NotedNo action in the LS |
|  |  | [C1-200229](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200229.zip) | Reply LS on NSI requirements (S1-193596) | SA1 | Cc | Proposed Noted |
|  |  | [C1-200230](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200230.zip) | Reply LS on LS on PC5S and PC5 RRC unicast message protection (S2-1912002) | SA2 | Cc | Proposed NotedRelated CR in C1-200349  |
|  |  | [C1-200231](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200231.zip) | Reply LS on Enquiries on eV2XARC (S2-1912018) | SA2 | To | Proposed NotedRelated pCR in C1-200391Related CR in C1-200349 |
|  |  | [C1-200232](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200232.zip) | Reply LS on SUCI computation from an NSI (S2-1912417) | SA2 | To  | Proposed NotedAre CRs available to this meeting? |
|  |  | [C1-200233](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200233.zip) | LS on PLMN selection solutions for satellite access (S2-1912551) | SA2 | To | PostponedLS pertains to Rel-17 (FS\_5GSAT\_ARCH) although header of the LS incorrectly indicates Rel-16 |
|  |  | [C1-200234](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200234.zip) | Reply LS on applicability of the notification procedure in SNPNs (S2-1912601) | SA2 | To | Proposed tbdProposed LS out in C1-200718Related CRs in C1-200504, C1-200505, C1-200333 |
|  |  | [C1-200235](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200235.zip) | LS on support of Control Plane CIoT 5GS Optimisation (S2-1912609) | SA2 | To | Proposed NotedAre CRs available to this meeting? |
|  |  | [C1-200236](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200236.zip) | Reply LS on sending CAG ID during resume procedure (S2-1912731) | SA2 | To | Proposed NotedNo action for CT1 |
|  |  | [C1-200237](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200237.zip) | Reply LS on Rel-16 NB-IoT enhancements (S2-1912763) | SA2 | To | Proposed tbdReply NeededProposed LS out in C1-200499Proposed LS out in C1-200416Discussion paper in C1-200498 DP in C1-200417  |
|  |  | [C1-200238](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200238.zip) | Reply LS on clarification on the requirement for steering of roaming (S2-1912764) | SA2 | To | Proposed PostponedCRs in CT1 likely needed, agenda item not in scope of this meeting |
|  |  | [C1-200239](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200239.zip) | LS on the support for ECN in 5GS (S2-1912765) | SA2 | Cc | Proposed Noted |
|  |  | [C1-200240](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200240.zip) | Reply LS on "set of configuration parameters" in the precedence of the V2X configuration parameters (S2-2000970) | SA2 | To | Proposed NotedRelated pCR in C1-200625 |
|  |  | [C1-200241](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200241.zip) | Reply LS on PC5 unicast and groupcast security protection (S2-2000971) | SA2 | To | Proposed NotedRelated CR in C1-200349 |
|  |  | [C1-200242](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200242.zip) | Reply LS on Response LS on SL RLM/RLF (S2-2000973) | SA2 | To | Proposed NotedRelated CR in C1-200350 |
|  |  | [C1-200243](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200243.zip) | Reply LS on configured NSSAI handling (S2-2001110) | SA2 | To | Proposed tbdProposed LS out in C1-200718No action for CT1 identified |
|  |  | [C1-200244](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200244.zip) | Reply LS on Dual-registration requirements for EHPLMNs (S2-2001130) | SA2 | To | Proposed PostponedCT1 CRs seem needed, potentially a reply LS |
|  |  | [C1-200245](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200245.zip) | LS on MA PDU establishment when the VPLMN does not support ATSSS (S2-2001148) | SA2 | To | Proposed NotedAre CRs available to this meeting? |
|  |  | [C1-200246](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200246.zip) | Reply LS on gPTP message delivery to DS-TT (S2-2001150) | SA2 | To | Proposed NotedRelated CR in C1-200339 |
|  |  | [C1-200247](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200247.zip) | Reply LS on 5G-S-TMSI Truncation Procedure (S2-2001248) | SA2 | To | Proposed NotedC1-200500 (discussion paper) and C1-200501 (related CR) |
|  |  | [C1-200248](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200248.zip) | Reply LS on congestion during RLOS access (S2-2001335) | SA2 | To  | Proposed NotedNo action seems required |
|  |  | [C1-200249](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200249.zip) | LS on Non-UE N2 Message Services Operations (S2-2001340) | SA2 | To | Proposed tbdProposed LS out in C1-200721 |
|  |  | [C1-200250](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200250.zip) | Reply LS on CMAS/ETWS and emergency services for SNPNs (S2-2001400) | SA2 | Cc | Proposed Noted |
|  |  | [C1-200251](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200251.zip) | Reply LS on assistance indication for WUS (S2-2001578) | SA2 | To | Withdrawn |
|  |  | [C1-200252](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200252.zip) | LS on Sending CAG ID (S2-2001616) | SA2 | To | Proposed tbdReply NeededProposed LS out in C1-200310Related CRs in C1-200311, C1-200467, C1-200337 (seem to contain the same solution)Related DP in C1-200335  |
|  |  | [C1-200253](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200253.zip) | LS on PC5S and PC5 RRC unicast message protection (S3-193802) | SA3 | To | Proposed NotedProposed LS out in C1-200545Related CR in C1-200349 |
|  |  | [C1-200254](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200254.zip) | Reply LS to LS on usage of IMSI during 3GPP based authentication (S3-194454) | SA3 | Cc | Proposed NotedReply from SA3 to CT4 (C1-200206)  |
|  |  | [C1-200255](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200255.zip) | Reply LS on SUCI computation from an NSI (S3-194455) | SA3 | To | Proposed tbdReply NeededProposed LS out in C1-200395 |
|  |  | [C1-200256](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200256.zip) | Reply LS to SA2 on 5G-S-TMSI Truncation Procedure (S3-194482) | SA3 | Cc | Proposed Noted |
|  |  | [C1-200257](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200257.zip) | Reply LS on SUCI computation from an NSI (S3-194548) | SA3 | To | Proposed NotedAre CRs available to this meeting? |
|  |  | [C1-200258](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200258.zip) | Reply LS on Sending CAG ID in NAS layer (S3-194559) | SA3 | Cc | Proposed Noted |
|  |  | [C1-200259](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200259.zip) | Reply LS on IANA assigned values for mission critical (S3-194603) | SA3 | To | Proposed PostponedReply LS is needed, not provided to the meeting, SA6 meets in May, i.e. after next CT1 meeting |
|  |  | [C1-200260](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200260.zip) | LS to CT1 on 3rd ETSI MCX Remote Plugtest (S3-194611) | SA3 | To | Proposed Noted |
|  |  | [C1-200261](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200261.zip) | LS on Reply on QoE Measurement Collection (S5-197543) | SA5 | Cc | Proposed Noted |
|  |  | [C1-200262](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200262.zip) | Reply LS on how the IWF obtains key material for interworking group and private communications (S6-192194) | SA6 | To | Proposed NotedAre CRs available to this meeting? |
|  |  | [C1-200263](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200263.zip) | Reply LS (S6-192023) on clarifications regarding SEAL services (S6-192318) | SA6 | Cc | Proposed Noted |
|  |  | [C1-200264](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200264.zip) | Reply LS on Unicast resource management with SIP core (S6-200163) | SA6 | To | Proposed Notedrelated CR iC1-200616 |
|  |  | [C1-200265](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200265.zip) | LS on API additions to SEAL and V2XAPP (S6-200270) | SA6 | To | Proposed NotedNo CT1 CRs seem available to this meeting, commented that none are needed |
|  |  | [C1-200266](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200266.zip) | Reply LS on Enquiries for supporting vertical applications (S6-200337) | SA6 | To | Proposed NotedRelated CRs in C1-200562, C1-200563, C1-200554,C1-200552, C1-200553, C1-200608 and C1-200610 |
|  |  | [C1-200267](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200267.zip) | Reply LS on clarifications regarding V2XAPP services (S6-192385) | SA6 | Cc | Proposed Noted |
|  |  | [C1-200268](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200268.zip) | LS on missing cause code mapping (C3-195374) | CT3 | Cc | Proposed Noted |
|  |  | [C1-200269](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200269.zip) | Reply LS on LS on dependencies on AS design for mobility management aspects of NTN in 5GS / LS on system level design assumptions for satellite in 5GS (R3-197699) | RAN3 | Cc | Proposed NotedC1-200220 from RAN2 and C1-200269 from RAN3 are both replies to the same LS from SA2 (S2-1910786)C1-200223 from RAN2 and C1-200269 from RAN3 are both replies to the same LS from SA2  (S2-1910787) |
|  |  | [C1-200270](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200270.zip) | Reply on QoE Measurement Collection (S4-200241) | SA4 | To | Proposed PostponedReply LS is needed, not provided to the meeting |
|  |  | [C1-200271](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200271.zip) | Reply LS on Support for ECN in 5GS (S4-200298) | SA4 | Cc | Proposed Noted |
|  |  | [C1-200272](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200272.zip) | LS on GSMA NG.116 Attribute Area of service and impact on PLMN selection (S2-2001726) | SA2 | To | PostponedLS pertains to Rel-17 (FS\_eNS\_Ph2 ) |
|  |  | [C1-200273](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200273.zip) | Questions on onboarding requirements (S2-2001729) | SA2 | Cc | PostponedLS pertains to Rel-17 (FS\_eNPN) |
|  |  | [C1-200274](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200274.zip) | Reply LS on assistance indication for WUS (S2-2001732) | SA2 | To | Proposed PostponedSA2 asks CT WG1 group to take the above answers into account and update their specifications accordingly, if required. Any CRs for WUS in EPC were treated under SAES in previous meeting  |
|  |  | [C1-200319](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200319.zip) | Specification of NAS COUNT for 5G (FSAG Doc 78\_002) | GSMA FSAG | To | Proposed PostponedCRs to 24.501 may be needed Reply LS may be needed  |
|  |  | [C1-200356](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200356.zip) | General status of WWC work (LIAISE-376) | Broadband Forum | LS in  | Proposed Noted |
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|  | void |  |  |  |  | Release 5 is closed |
|  |  |  |  |  |  |  |
|  | void |  |  |  |  | Release 6 is closed |
|  |  |  |  |  |  |  |
|  | void |  |  |  |  | Release 7 is closed |
|  |  |  |  |  |  |  |
|  | Release 8work items | Tdoc | **NOT PART OF THIS MEETING**  |  |  |  |
|  |  |  |  |  |  |  |
|  | Release 9work items | Tdoc | **NOT PART OF THIS MEETING**  |  |  |  |
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|  | Release 10work items | Tdoc | **NOT PART OF THIS MEETING**  |  |  |  |
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|  | Release 11work items | Tdoc | **NOT PART OF THIS MEETING**  |  |  |  |
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|  | Release 12work items | Tdoc | **NOT PART OF THIS MEETING**  |  |  |  |
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|  | Release 13work items | Tdoc | **NOT PART OF THIS MEETING** |  |  |  |
|  |  |  |  |  |  |  |
|  | Release 14work items | Tdoc | **NOT PART OF THIS MEETING** |  |  |  |
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|  | Release 15work items | Tdoc | **NOT PART OF THIS MEETING** |  |  |  |
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|  | Release 16work items | Tdoc | Title | Source | Tdoc info  | Result & comments |
|  | Tdocs on Work Items |  |  |  |  | Papers related to Rel-16 Work Items |
| * + 1.
 | Work Item Descriptions |  | Peter - Main |  |  | New and revised Work Item Descritpions |
|  |  | [C1-200296](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200296.zip) | Stage-3 5GS NAS protocol development | Ericsson / Ivo | WID revised Rel-16 | Revision of CP-183087 |
|  |  | [C1-200348](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200348.zip) | Revised WID on CT aspects of optimisations on UE radio capability signalling | Qualcomm Incorporated / Lena | WID revised Rel-16 |  |
|  |  | [C1-200423](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200423.zip) | Revised WID on CT aspects of Cellular IoT support and evolution for the 5G System | Qualcomm Incorporated / Amer | WID revised Rel-16 |  |
|  |  | [C1-200472](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200472.zip) | Revised WID on Multi-device and multi-identity | Ericsson /Jörgen | WID revised Rel-16 |  |
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|  | CRs and Discussion Documents related to new or revised Work Items |  | Peter - Main |  |  | CRs and Disc papers related to new Work Items  |
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|  | Status of other Work Items |  | Peter - Main |  |  | Status information on other relevant Rel-16 Work Items |
|  |  | [C1-200422](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200422.zip) | 5G\_CIoT WI workplan | Qualcomm Incorporated / Amer | Work Plan Rel-16 |  |
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|  | Release 16 documents for information |  | Peter - Main |  |  | Miscellaneous documents provided for information |
|  |  |  |  |  |  |  |
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|  | WIs for common and SAE/5G |  |  |  |  | WIs mainly targeted for common sessions or the SAE/5G breakout |
|  | ePWS |  | Lena – Main |  |  | CT aspects of enhancements of Public Warning SystemTR 23.735 is sent to CT#85 for approval  |
|  |  | [C1-200444](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200444.zip) | CR 23.041#0210 Example of Unicode based symbols as the language independent contents mapping to disasters in NOTE | SyncTechno Inc. | CR 0210 23.041 Rel-16 | Ivo, Thursday, 9:28each unicode character required to be supported as a language-independent content needs to be listed in a normative text (not in a NOTE). Until this is done, editor's notes in 9.1.3.4.2 and 9.1.3.5.2 are valid and cannot be removed. I suggest to introduce a table with rows containing an event/disaster semantic and related unicode character code (if known, or TBD if not known) + an editor's note related to those TBDs.Peter, Friday, 9:54In clause 8.3 there are 2 functionalities (2 bullets) and 444 proposes to add an example in the note under bullet 1.Bullet 1) starts with this sentence:1)            UEs with user interface which support the ePWS language-independent content functionality and which are not               capable of displaying text-based warning messages should be capable of displaying the language-independent .....and I propose to remove the words in red, because this requires the UE to have a user interface, while this is not necessary. The UE needs to have a display to display the unicode character, and that is already stated further down the sentence. Secondly, I think the purple word not is missing from the original text and should be added.Bullet 2); I propose to add the text in red and remove the text in purple2)   UEs with no user interface which support the ePWS disaster characteristics functionality should be capable of identifying the characteristics of a disaster derived from the message identifier of a received warning message in order to take appropriate action.Without this text in red it is unclear what the purpose is of a UE identifying characteristics of a disaster.Secondly, I don't think it is relevant whether the UE has a user interface or not. Let's not include such a restriction.Peter, Wednesday, 11:44I think you have missed one of my comments in the middle of all the discussions.Bullet 3) is the only bullet that deals with ePWS devices with no user interface:3) UEs with no user interface which support the ePWS disaster characteristics functionality should be capable of identifying the characteristics of a disaster derived from the message identifier of a received warning message.This sentence only states what the UE should do, but it is unclear why that is. Hence I proposed to add a few words (in red) at the end: "..... received warning message, in order to take appropriate action.Hyounhee, Wednesday, 11:48Feedback on the comments:First, regarding adding the description on Unicode Symbol as the normative text (Ivo’s comment),I don’t agree with you. It should be described as a NOTE, not a normative text because it is to help device manufacturers get 3GPP guidance on how to handle them in case regulatory bodies of countries where their devices are sold do not have any regulation on that issue yet.And I double-checked with the expert on Unicode symbols to identify which Unicode numbers represent some disasters important from the perspective of public warning.Due to too many Unicode numbers, it was like looking for a needle in a haystack.So rather than adding some Unicode numbers mapping to some of disasters based on my searching Unicode symbol, I selected a way of sending a liaison out to ISO in charge of Unicode standardization because they are the expert on them and can provide an recommended approach to be taken by 3GPP CT1 to address this issue.In addition, if any normative texts need to be added to address this issue, then, I think that the clause 6.2.3 of TS 23.038 is a right place to add them instead of the clauses of TS 23.041.So… I  would like to suggest to approve C1-200444 to replace existing Editor’s notes by the new Editor’s note and the addition of new sentences in NOTE at this meeting and wait until the ISO sends the reply liaison  to 3GPP. Then, depending on the recommendation from ISO, it will be revised. Second, regarding Peter’s comment on the first bullet in the clause 8.3,I think Peter confused something on the first bullet. The first bullet is applied to legacy type of handsets with ePWS functionality to address the language issue for foreigners who do not know local language used in warning message. So it is right to have “with user interface” and it is right not to have “not”.I hope all of your comments are clarified above.I still keep the first version on this CR, i.e. C1-200444 for the approval at this meeting.Peter, Wednesday, 12:06My only comment that remains on 444 (and 443), is to add a few words at the end of bullet 3). See my last 2 emails. All other comments from my side were withdrawn after the discussion with Ivo last weekIvo, Wednesday, 17:54In order to have a testable solution, we need a normative text identifying what "the language-independent content mapped to an event or a disaster (e.g. character such as Unicode based pictogram mapping to a disaster) that is part of user information contained in the content of a warning message" is. A NOTE will not do the job.I have no preferences whether to document this in 23.041 or in some other TS, but the Editor's note below cannot be removed until it is documented in a TS.Editor’s note [WI: ePWS, CR#202]:         FFS on what character(s) such as Unicode based pictogram(s) are the language-independent content mapped to an event or a disaster.So, C1-200444 is not OK. |
|  |  | [C1-200446](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200446.zip) | Workplan for ePWS-CT aspects | SyncTechno Inc. | Work Plan Rel-16 |  |
|  |  | [C1-200765](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200765.zip) | handling of ePWS message | Samsung /Grace | CR 0211 23.041 Rel-16 | The CR seems to be related to incoming LS in C1-200226. The incoming LS pertains to Rel-15, and is not part of work item ePWS.Lena, Tuesday, 7:19The contents of the CR are not related to ePWS. In our view they fall under TEI16. So we request the CR to be postponed to the April meeting. |
|  |  | C1-200769 | discussion for concurrent broadcast for CMAS | Samsung R&D Institute UK | discussion 23.041 Rel-16 | Withdrawn |
|  |  | C1-200770 | discussion for concurrent broadcast for CMAS | Samsung R&D Institute UK | discussion 23.041 Rel-16 | Withdrawn |
|  |  | C1-200771 | discussion for concurrent broadcast for CMAS | Samsung /Grace | discussion 23.041 Rel-16 | PostponedDocument was LATE |
|  |  | [C1-200890](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200890.zip) | CR 23.041#0208 Addition of message identifiers for UEs with no user interface | SyncTechno Inc. | CR 0208 23.041 Rel-16 | Revision of C1-200442Ivo, Thursday, 9:16- ePWS WID (CP-191155) states "This work item will not introduce new functionality for US WEA and Japan ETWS." but this CR defines new message IDs for ETWS and CMAS and 23.041 states "CMAS (aka WEA)". Thus, the proposed new message IDs should be limited to KPAS and EU-Alert only.- furthermore, if CMAS and ETWS are anyway in scope, then to follow the existing 23.041 convention, there should be two sets of message ids - one set for ETWS (in the range 4357 - 4369) and one set for non-ETWS PWS (in the range proposed in the CR).Peter, Thursday, 11:001) I don't completely agree with Ivo's comment: Neither KPAS, nor EU-Alert have requirements for an ePWS service. The new message IDs should not apply to KPAS or EU-Alert. Simply removing the "CMAS/ETWS" will do (so this remains: "CBS Message Identifier for warning message dedicated to UEs with no user interface and with ePWS functionality regardless of the type of disasters and characteristics of a disaster.")2) My remarks:- The RAN Node needs to make a choice between broadcasting as an ETWS-like service (SIB10 or SIB11 in E-UTRAN) or as a CMAS-like service (SIB12 in E-UTRAN). At this moment it is not specified which choice the RAN node should make and what this choice should be based on. Since the message contains no text, and the receiving device will use the message ID instead, I assume that it will be an ETWS-like service.- The text in red above says there is no user interface, but all entries for the new message IDs have a sentence "(Not) Settable by MMI". This is confusing; there is no MMI says the text in red. Since we are talking about devices, I would simply remove that sentence.Ivo, Thursday, 11:13:1) Peter’s proposed wording ("CBS Message Identifier for warning message dedicated to UEs with no user interface and with ePWS functionality regardless of the type of disasters and characteristics of a disaster.") would still make the new message IDs applicable for ETWS and CMAS, which is against the scope of the WID. So, such wording is NOT OK.2) I agree that RAN Node needs to make a choice between broadcasting as an ETWS-like service (SIB10 or SIB11 in E-UTRAN) or as a CMAS-like service (SIB12 in E-UTRAN). At this moment it is not specified which choice the RAN node should make and what this choice should be based on. However, specifying the message identifiers for ETWS is against the WID.Peter, Thursday, 11:57To Ivo: I'm not sure there is a confusion. There are 65535 possible message IDs and only the range 4370-4399 applies to CMAS and 4351-4359 applies to ETWS. That leaves 65495 message IDs that don't belong to either. But, I don't have a strong objection against adding your words.We need to specify whether the CBC will populate the Warning Type IE (which will result in an ETWS-like broadcast) or not use this IE (which will result in CMAS-like broadcast). However, there are no Warning Type values allocated for ePWS.Lena, Tuesday, 7:03I agree with Ivo’s comments. Additionally, I have the following other comments:* What is meant by “regardless of the type of disasters and characteristics of a disaster” exactly?
* There are several new message identifiers which are marked as “for UEs with no user interface” but then there are also marked as “Settable by MMI”. How can there be an MMI if there is no user interface?
* “when a volcano occurs” -> “when a volcanic eruption occurs”

Hyounhee, Wednesday, 6:58I have uploaded a revision in the drafts folder. Feedback on the comments:Regarding the issue on the exclusion of US and Japan case (Ivo’s comment)Ivo made the confusion by missing “US” and “Japan” in front of CMAS and ETWS. I would like to remind you that WID ePWS-CT aspect has the sentence as follows.This work item will not introduce new functionality for US WEA and Japan ETWS.In addition, the clause 9 of TS 22.268 (clause for ePWS requirements) has the sentence as follows.Requirements specified in the clause 9 do not apply for US WEA and Japan ETWS.In other words, CMAS is not same as US WEA though Ivo pointed out the expression CMAS (aka WEA). Such expression should be revised as US CMAS (aka WEA). ETWS is also not same as Japan ETWS.However, I added the sentence “This message identifier is not applicable to US WEA and Japan ETWS” because anyway such sentences may be deleted later if US and Japan governments decide to have ePWS functionality.I haven’t heard from two governments that they didn’t want it when I double-checked it with them so I want Ericsson to be responsible for keeping the sentence “This message identifier is not applicable to US WEA and Japan ETWS” in TS 23.041.Anyway, it will be identified after some activities in AWG, UNDRR etc. continuously.And, 4401 – 6399 are message identifiers reversed for PWS range in future versions. ETWS is also one of PWS. As I strongly explained at the last meeting, the same message identifiers for UEs with no user interface need to be defined for both CMAS and ETWS from the perspective of device manufacturer.Regarding the issue on broadcasting as ETWS-like or CMAS-like, (Peter’s comment)I would like to remind all of you that ePWS functionality is specified based on existing PWS network architecture without any change.It means that if the legacy PWS network architecture is based on ETWS, then warning message for UEs with no user interface and with ePWS functionality need to be broadcast as legacy warning message, ETWS-like message. Same as CMAS.Regarding the issue on the meaning of “regardless of the type of disasters and characteristics of a disaster”, (Lena’s comment)I saw Lena’s point. That expression is too much vague. I revised it as follows as what I intended to mean.* For disasters to be decided to be notified by authorities

Regarding the issue on MMI (Lena’s comment)I was confused about this point when I drafted it. I deleted it.Hyounhee, Wednesday, 7:13One thing to be mentioned: As the Editor of AWG work item related to PWS, I plan to provide the summary of 3GPP ePWS works during upcoming AWG meeting.I need to provide the clarification on why “This message identifier is not applicable to US WEA and Japan ETWS” for new message identifiers.” In the draft of AWG Report if CT1#122e meeting decide to keep that sentence in the agreed CR in the end.So I would like you to take into account such potential activities because I may need to indicate what company requests to add such sentence when the representative of US/Japan governments asks me the reason in AWG etc. meetings.Peter, Wednesday, 11:05I still have an issue with starting the sentence with "CMAS/ETWS" (CMAS/ETWS CBS Message Identifier for warning message dedicated to UEs with no user interface and with ePWS functionality for disasters to be decided to be notified by authorities)It says that the Message IDs are for CMAS and ETWS, but are not applicable in the US and in Japan. Does this mean that ePWS devices cannot be sold in the US or Japan? Its confusing.My understanding is that by introducing ePWS, we shall not affect the current CMAS and ETWS services as they are used in the US and in Japan. Whatever is out there today shall not require any modification because of ePWS.The solution seems very simple to me: we call the new service "ePWS". Hence we should not confuse anyone by adding the words "CMAS/ETWS" in the beginning of the sentence.Furthermore, you added some text upon request from Lena. The words that you chose imply that ePWS can only be used by authorities. 3GPP shouldn't care who uses it and should not restrict the use to certain persons or certain groups. If the original words were vague, then simply leave them out. The result would be like this:CBS Message Identifier for warning message dedicated to UEs with no user interface and with ePWS functionality.We've defined elsewhere in the TS what ePWS functionality is.Ivo, Wednesday, 11: 28I raised the following comments:- ePWS WID (CP-191155) states "*This work item will not introduce new functionality for US WEA and Japan ETWS.*" but this CR defines new message IDs for ETWS and CMAS and 23.041 states "*CMAS (aka WEA)*". Thus, the proposed new message IDs should be limited to KPAS and EU-Alert only.- furthermore, if CMAS and ETWS are anyway in scope, then to follow the existing 23.041 convention, there should be two sets of message ids - one set for ETWS (in the range 4357 - 4369) and one set for non-ETWS PWS (in the range proposed in the CR).The draft revision addresses my 1st comment.The draft revision does not address my 2nd comment.Hyounhee, Wednesday, 12:35An updated draft revision is available. Feedback on the comments:I like Peter’s suggestion, i.e. deleting CMAS/ETWS as these new message identifiers are for UEs with ePWS functionality. Thanks, Peter for good suggestion.Accordingly, I deleted the last sentence from each message identifier as well because I think such sentence is enough to be kept in Stage 1 TS 22.268 though I assume that it may be deleted in TS 22.268 someday according to discussions in AWG meetings etc. because that sentence was not requested by government organizations but by two companies at that time during SA1 meeting.I want 3GPP specifications to be kept as neutral as much as possible. Then, I don’t need to provide such clarification on why such sentence was added in 3GPP CT1 technical specifications during any AWG meetings etc.Regarding Ivo’s comment on his second comment, i.e. two sets of message ids,I do not agree with Ivo’s interpretation, i.e. 4401 – 6399 are reserved message identifiers for CMAS only. As I already clarified, it is described in TS 23.041 that 4401 – 6399 are intended as PWS range in future versions of the present document.It was not described as “CMAS range”.In addition, TS 22.268 used “General PWS Requirements” that are applied for both CMAS based warning and ETWS based warning. With such legacy usage on “PWS” terminology, it shall be interpreted that 44001 – 6399 are possible to be used for both CMAS and ETWS as well.So, I still think the C1-200442\_r2 addresses your second comment as well.Ivo, Wednesday, 12:58Today:- a message with ETWS message ID is sent by RAN using ETWS specific broadcast; and- a message with non-ETWS message ID is sent by RAN using non-ETWS (i.e. CMAS) specific broadcast. Assuming that ePWS can be used both in countries which use the ETWS specific broadcast and in countries which use non-ETWS (CMAS) specific broadcast, we should have two sets of message IDs.So, C1-200442\_r2 is NOT OK.Peter, Wednesday, 13:36What Ivo wrote is not necessarily always true. There exist RAN Node implementations that do not look at the Message ID to distinguish between CMAS and ETWS. Have a look at C1-200226, the LS from RAN3 which is postponed to the next meeting.There are implementations that look at the presence of the Concurrent Warning Message Indicator IE. If this indicator is present, then it is CMAS, otherwise it is ETWS. The reason for this choice is that the Message ID is supposed to be transparent for the RAN Node and the Concurrent Warning Message Indicator is not, this indicator is intended to be used by the RAN Node and is not sent to the UE.Having said that, there are indeed implementations that do look at the Message ID as you indicate in your comment below.However, we should first discuss if we want to use ETWS-like broadcast for ePWS devices with no user interface and CMAS-like broadcast for ePWS devices that have a user interface, but cannot display the full text of a warning message. If that is the case, then we need 2 sets of Message IDs. Furthermore, if we decide we need a set of Message IDs for ETWS-like broadcast then we also need to discuss the need for an ePWS specific value for the Warning Type IE, because without that we cannot use the ETWS Primary Notification.Hyounhee, Wednesday, 13:50I uploaded revised version (file name: C1-200443\_r3.doc) in “Drafts” folder of “Inbox’ folder.Thank you for providing the clarification on the current RAN network procedure. I missed that point.Now I fully understood why Ivo proposed two sets of message identifiers.If only single set of message identifiers are specified, it seem to need to introduce the new network procedure from the perspective of RAN networks in order to decide what SI needs to be used to broadcast a warning message.It is not acceptable to have any network change by Rel-16 ePWS work so I think two sets of message identifiers are only solution without any RAN network change as you suggested even though device manufacturers need to take care of two sets of message identifiers.I think this approach is much less painful at this point because it is required for new type of devices, not for legacy devices while keeping the legacy network architecture without any network change for such new type of devices.However, I will address this ETWS case during AWG meetings to see whether there is a good way to have the single set of MIs for PWS, i.e. both ETWS and CMAS because in practical service scenario, I don’t think that 3GPP networks need to deal with both ETWS and CMAS at the same time once they are deployed in places in any country.It may take long time until the conclusion is made out of 3GPP meetings. So I took Ivo’s suggestion.Peter, Wednesday, 14:03There are more complications.A new ETWS message replaces ongoing broadcast; in ETWS there is no concurrent broadcast. This implies that in networks where a mix is used of ETWS and CMAS, that the next ETWS message cancels all ongoing ETWS and CMAS broadcast and this includes all ongoing warning message broadcast to citizens (the current CMAS/EU-Alert/KPAS service). I'm pretty sure that this is not what we want.We never specified how ETWS and CMAS can work together in a single network.Therefore, in countries that have a PWS for citizens (like Korea with KPAS), we can't add ePWS in such networks with ETWS-like broadcast, unless we seriously modify the specifications to make it possible to broadcast ETWS Primary Notifications concurrently with CMAS messages.If we don't want that, then the only solution is to broadcast ePWS messages as CMAS-like messages; concurrently with any other CMAS messages. This implies a few things:- we don't need 2 sets of Message IDs and we don't need an ePWS specific value for the Warning Type IE;- in CMAS the Warning Message Content IE is mandatory (see TS 36.331 on SystemInformationType 12). For devices that have no user interface, this IE is useless but since it is mandatory, it will have to be populated with 82 octets of (useless) padding characters. I think we should add a note somewhere to clarify this.Peter, Wednesday, 14:25Latest draft uses message id range “4368 to 4359”! 4359 is the upper limit for the ETWS range and 4368 is way above it. There was only room for 3 new Message IDs, not for 11 new ones.Secondly, you didn't modify the second column with values in hexIvo, Wednesday, 17:10C1-200442\_r3.docx addresses my 2nd comment.However, somehow changes for my 1st comment were lost in C1-200442\_r3. Can we please add text "This message identifier is not applicable to US WEA and Japan ETWS." in the message ID definitions?About the message id range, Can't we use the message IDs in the 4360-4369 range? |
|  |  | [C1-200891](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200891.zip) | CR 23.041#0209 Support of a stored language-independent content referenced by a warning message | SyncTechno Inc. | CR 0209 23.041 Rel-16 | Revision of C1-200443Ivo, Thursday, 10:221st sentence uses "mapping" while 2nd sentence uses "referencing".---------------------------2)  UEs with user interface which support the ePWS language-independent content functionality and which are incapable of displaying text-based warning messages should be capable of mapping message identifiers of received warning messages to language-independent contents stored in those UEs. Such UEs should be capable of referencing a stored language-independent content to be displayed by those UEs when a warning message is received.--------------------------- Are those supposed to be the same functionality? If so, then the same term should be used. E.g. 2nd sentence can be changed as follows: "When a warning message is received, such a UE should be capable of displaying of a language-independent content stored in the UE mapped from message identifier of the received warning message."If those are not supposed to the same functionality, then the 2nd sentence was not concluded in 23.735 subclause 6.4.3.Peter, Thursday, 11:15This is the new proposed text:"2) UEs with user interface which support the ePWS language-independent content functionality and which are incapable of displaying text-based warning messages should be capable of mapping message identifiers of received warning messages to language-independent contents stored in those UEs. Such UEs should be capable of referencing a stored language-independent content to be displayed by those UEs when a warning message is received."The words "with user interface" seem to be unnecessary. The device only needs to display language-independent content and that is mentioned in the second sentence. I think the words "with user interface" add a requirement that serves no purpose. I would remove those words.Cristina, Monday, 1:59We agree on this local storage and mapping feature, but the words “should be” is unacceptable. Considering some simple devices which just sound alarm after receiving any waring message, this feature may be too heavy to support. “can be” or “may be” are preferred.Hyounhee, Wednesday, 9:33I have uploaded a draft revision to the drafts folder.Feedback on the comments:Regarding the issue on “referencing” or “mapping” (Ivo & Peter’s comment),Ivo is right. It should be “mapping”. I was confused between the first paragraph and the second paragraph in the clause 6.4.2 of TR 23.735.Regarding the issue on “should be” or “ can be or may be” (Cristina’s comment),This proposal is not for simple devices you considered as it was described in the clause 6.4 of TR 23.735.The existing PWS messages can not include big size of contents suitable for devices such as AR devices or hologram devices that are incapable of text-based warning message. In addition, it is assumed that 5G devices will be used to help disabled persons experience lots of things. So if a proper content stored in such devices dedicated to persons with specific disability can be displayed, then such disabled persons can understand what happened when a warning message is received in such devices.And TR 23.735 request it as “shall” as follows.UEs with ePWS functionality incapable of displaying-text-based warning messages shall be capable of mapping message identifiers of received warning messages to contents stored in UEs with ePWS functionality.Considering any potential issues that we can not identify in such future 5G devices, I selected “should” instead of “shall”.If Cristian worrys about mis-interpretation on proposed sentences different from what is specified in TR 23.735, I think NOTE can be added to clarify that this sentence is not applied for UEs with user interface and with very limited memory that can not include any stored language-independent content. However, what I intended to do with this paragraph is that any content stored in such UEs can be useful to the user of such devices to recognize that something dangerous is happening. Cristina, Wednesday, 11:17An note to exclude limited capability UE is suggested. Besides, I have no further comment.Ivo, Wednesday, 11:34The draft revision partly addresses the comment I raised previously.I have to say, the sentence "Such UEs should be capable of mapping a stored language-independent content to be displayed by those UEs when a warning message is received." is very difficult to understand. I assume expectation is that the UE should map the message id to the stored language-independent content and then display the stored language-independent content.However, I cannot really read it in the sentence. Proposal: "When a warning message is received, such a UE should be capable of displaying of a language-independent content stored in the UE mapped from message identifier of the received warning message."Hyounhee, Wednesday, 14:16A draft revision is available. Changes:* Took onboard Ivo’s rewording
* Added NOTE requested by Cristina

Hyounhee, Wednesday, 14:23To Peter: Bullet 3) does not exist in C1-200444 but exists in C1-200443 because bullet 2) is added to deal with a stored content.So, I will add what you suggested, i.e. “in order to take appropriate action” at the end of bullet 3) in C1-200443.Ivo, Wednesday, 17:14Latest draft is nearly ok. Comments:- there are two NOTEs in subclause 8.3 so they need to be numbered (with hard space between "NOTE" and the number)- there are two full stops at the end of "received warning message.."- style of the NOTE should be "NO" (rather than "NO + Left:  1 cm, Hanging:  1,5 cm" as now) |
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|  | SINE\_5G |  | Peter – Main |  |  | Signalling Improvements for Network Efficiency in 5GS |
|  |  | [C1-200513](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200513.zip) | Work plan for SINE\_5G | Huawei, HiSilicon/Lin | discussion Rel-16 | Revision of C1-198222 |
|  |  | [C1-200514](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200514.zip) | No retry in 4G for PDU session type related 5GSM causes | Huawei, HiSilicon/Lin | CR 1943 24.501 Rel-16 |  |
|  |  | [C1-200547](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200547.zip) | Correction on UE retry restriction on EPLMN | China Telecom, Huawei, HiSilicon | CR 1944 24.501 Rel-16 |  |
|  |  | [C1-200768](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200768.zip) | handling of PDU session authentication  | Samsung/Grace | CR 2026 24.501 Rel-16 |  |
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|  | SAES16 WIs |  | Peter – Main |  |  | Stage-3 SAE protocol pevelopment for Rel-16 |
|  | SAES16 |  | Peter – Main |  |  | General Stage-3 SAE protocol development**Only revision of agreed CRs from the ad-hoc meeting and DISC paper supporting LS possible** |
|  |  | C1ah-200120 | Correcting reference to 5GSM procedures | Ericsson / Mikael | CR 1858 24.501 Rel-16 | Agreed |
|  |  | C1ah-200123 | +CGEV amendment for indicating IP address/type change | MediaTek Inc. / JJ | CR 0681 27.007 Rel-16 | AgreedRevision of C1ah-200091 |
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|  | SAES16-CSFB |  | Peter – Main |  |  | Stage-3 SAE protocol development related to Circuit Switched Fall Back |
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|  | SAES16-non3GPP |  | Peter – Main |  |  | Stage-3 SAE protocol development related to non-3GPP access |
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|  | 5GProtoc16 WIs |  | Peter – Main |  |  | Stage-3 5GS NAS protocol development for Rel-16 |
|  | 5GProtoc16 |  |  |  |  | General Stage-3 5GS NAS protocol developmentOnly revision of agreed CRs from the ad-hoc meeting and DISC paper supporting LS possible |
|  |  | C1ah-200023 | Correction for AUTHENTICATION REJECT handling | Ericsson / Ivo | CR 1785 24.501 Rel-16 | Agreed |
|  |  | C1ah-200032 | Correct “ANSDP” | Intel | CR 1793 24.501 Rel-16 | Agreed |
|  |  | C1ah-200037 | Correction to RAT's that can be scanned after E-UTRAN disable due to no voice service | Samsung/Anikethan | CR 0482 23.122 Rel-16 | Agreed |
|  |  | C1ah-200043 | Emergency service missing condition for performing registration update | Intel / Thomas | CR 0483 23.122 Rel-16 | Agreed |
|  |  | C1ah-200044 | Listing of 5GMM parameters for EMM cause #12 handling | HiSilicon, HiSilicon / Vishnu | CR 3315 24.301 Rel-16 | Agreed |
|  |  | C1ah-200047 | Declare syntactical error when both MFBR uplink and MFBR downlink equal zero | Qualcomm Incorporated | CR 1804 24.501 Rel-16 | Agreed |
|  |  | C1ah-200059 | Correction on NAS transparent container for 5G-4G interworking | Huawei, HiSilicon/Lin | CR 1811 24.501 Rel-16 | Agreed |
|  |  | C1ah-200062 | Trigger for stopping timer T3511 | Huawei, HiSilicon/Lin | CR 1813 24.501 Rel-16 | Agreed |
|  |  | C1ah-200063 | Correction on T3502 for deactivated value | Huawei, HiSilicon/Lin | CR 1814 24.501 Rel-16 | Agreed |
|  |  | C1ah-200066 | EMM cause #22 for resetting registration attempt counter | Huawei, HiSilicon/Lin | CR 3322 24.301 Rel-16 | Agreed |
|  |  | C1ah-200067 | Consistent use of additional 5G security information IE | Huawei, HiSilicon/Lin | CR 1816 24.501 Rel-16 | Agreed |
|  |  | C1ah-200069 | Correction on N26 interface indicator | Huawei, HiSilicon/Lin | CR 3323 24.301 Rel-16 | Agreed |
|  |  | C1ah-200070 | Correction on reference of TS 36.304 | Huawei, HiSilicon/Lin | CR 1818 24.501 Rel-16 | Agreed |
|  |  | C1ah-200072 | Inclusion of 5GSM cause in PDU session release request | Huawei, HiSilicon/Lin | CR 1820 24.501 Rel-16 | Agreed |
|  |  | C1ah-200073 | PDU session establishment reject with 5GSM #29 | Huawei, HiSilicon/Lin | CR 1821 24.501 Rel-16 | Agreed |
|  |  | C1ah-200079 | Acknowledgement of UCU procedure | vivo / Yanchao | CR 1826 24.501 Rel-16 | Agreed |
|  |  | C1ah-200100 | Correction in handling of persistent PDU session during the mobility registration update | Nokia, Nokia Shanghai Bell | CR 1842 24.501 Rel-16 | Agreed  |
|  |  | C1ah-200099 | Procedures for an ETWS/CMAS-capable UE in NG-RAN | Nokia, Nokia Shanghai Bell | CR 0205 23.041 Rel-16 | Agreed |
|  |  | C1ah-200101 | NAS signalling spelling correction | Ericsson / Mikael | CR 1843 24.501 Rel-16 | Agreed |
|  |  | C1ah-200105 | Correction to IEI values | Huawei, HiSilicon /Christian | CR 1846 24.501 Rel-16 | Agreed |
|  |  | C1ah-200107 | Correction to UCU procedure abnormal cases on NW side for a new TAI list | Ericsson /kaj | CR 1848 24.501 Rel-16 | Agreed |
|  |  | C1ah-200113 | Correction to the Mapped NSSAI IE | Huawei, HiSilicon /Christian | CR 1854 24.501 Rel-16 | Agreed |
|  |  | C1ah-200118 | Correction to AT+CLADN string type | MediaTek Inc. / Marko | CR 0682 27.007 Rel-16 | Agreed |
|  |  | C1ah-200124 | S-NSSAI value associated with the BO timer applied for all PLMNs | MediaTek Inc., Qualcomm Incorporated, Huawei, HiSilicon / JJ | CR 1839 24.501 Rel-16 | AgreedRevision of C1ah-200096 |
|  |  | C1ah-200127 | Correcting styles | BlackBerry UK Ltd. | CR 3313 24.301 Rel-16 | AgreedRevision of C1ah-200014**This is now a TEI16 change** |
|  |  | C1ah-200129 | Abnormal case for service request procedure | ZTE | CR 1797 24.501 Rel-16 | AgreedRevision of C1ah-200038 |
|  |  | C1ah-200131 | S-NSSAI as a mandatory parameter for interworking with 5GS | MediaTek Inc. / JJ | CR 1836 24.501 Rel-16 | Agreed Revision of C1ah-200093 |
|  |  | C1ah-200137 | Service Request for PS Data Off | ZTE | CR 1799 24.501 Rel-16 | AgreedRevision of C1ah-200040 |
|  |  | C1ah-200139 | Usage of SoR-AF function | Nokia, Nokia Shanghai Bell /Jennifer | CR 0486 23.122 Rel-16 | AgreedRevision of C1ah-200081 |
|  |  | C1ah-200140 | Update bullet index to include all NAS transport cases | Nokia, Nokia Shanghai Bell /Jennifer | CR 1827 24.501 Rel-16 | AgreedRevision of C1ah-200082 |
|  |  | C1ah-200141 | Correction to 5GMM cause IE | Huawei, HiSilicon /Christian | CR 1847 24.501 Rel-16 | Agreed Revision of C1ah-200106 |
|  |  | C1ah-200145 | Correction to the retransmission timer for the network slice-specific EAP message reliable transport procedure | Huawei, HiSilicon /Christian | CR 1852 24.501 Rel-16 | AgreedRevision of C1ah-200111 |
|  |  | C1ah-200147 | Handling of unsupported SSC mode | Qualcomm Incorporated / Lena | CR 1794 24.501 Rel-16 | Agreed Revision of C1ah-200033Author indicated a revision for Sophia meeting to fix some unlcarity |
|  |  | C1ah-200148 | Matching of SSC mode for association between an application and an existing PDU session | Qualcomm Incorporated / Lena | CR 0069 24.526 Rel-16 | AgreedRevision of C1ah-200034 |
|  |  | C1ah-200151 | Clarification of forbidden PLMN list | vivo | CR 0484 23.122 Rel-16 | AgreedRevision of C1ah-200053 |
|  |  | C1ah-200154 | Correction to sending of EPS NAS message container in Registration Request message | Samsung/Anikethan | CR 1789 24.501 Rel-16 | AgreedRevision of C1ah-200028 |
|  |  | C1ah-200155 | Editorial correction of an input parameter for 5G NAS message integrity protection | Samsung/Anikethan | CR 1786 24.501 Rel-16 | AgreedRevision of C1ah-200025 |
|  |  | C1ah-200156 | Inclusion of PDU session reactivation result error cause IE | Huawei, HiSilicon/Lin | CR 1810 24.501 Rel-16 | AgreedRevision of C1ah-200056 |
|  |  | C1ah-200157 | Deletion of the rejected NSSAI for the current registration area | Huawei, HiSilicon/Lin | CR 1812 24.501 Rel-16 | Agreed Revision of C1ah-200061 |
|  |  | C1ah-200158 | 5GMM cause #22 for resetting registration attempt counter | Huawei, HiSilicon/Lin | CR 1815 24.501 Rel-16 | AgreedRevision of C1ah-200065Author indicated a revision for Sophia to fix a minor aspect |
|  |  | C1ah-200159 | Inclusion of 5GSM cause in PDU session modification request | Huawei, HiSilicon/Lin | CR 1819 24.501 Rel-16 | AgreedRevision of C1ah-200071 |
|  |  | C1ah-200160 | Correction on QoS rule/QoS flow synchronization | Huawei, HiSilicon/Lin | CR 1822 24.501 Rel-16 | AgreedRevision of C1ah-20000074MCC is asked to fix the missing semicolon between “session” and “and” as shown belowthe SMF decides to continue to use the previous configuration of the PDU session and |
|  |  | C1ah-200166 | UE handling of invalid QoS flow description | MediaTek Inc. / JJ | CR 1835 24.501 Rel-16 | AgreedRevision of C1ah-200092 |
|  |  | C1ah-200167 | UE handling of multiple QoS errors in EPS | MediaTek Inc., Qualcomm Incorporated, Ericsson / JJ | CR 1838 24.501 Rel-16 | AgreedRevision of C1ah-200095 |
|  |  | C1ah-200168 | Optional IE description for release assistance indication IE | MediaTek Inc. / JJ | CR 1837 24.501 Rel-16 | AgreedRevision of C1ah-200094 |
|  |  | C1ah-200171 | Correction on NAS COUNT handling for intra-N1 handover | Huawei, HiSilicon/Lin | CR 1824 24.501 Rel-16 | AgreedRevision of C1ah-200077 |
|  |  | C1ah-200172 | Correction on Uplink data status IE coding | Huawei, HiSilicon/Lin | CR 1825 24.501 Rel-16 | Agreed Revision of C1ah-200078Lin, Monday, 16:01 |
|  |  | C1ah-200175 | Correction on payload container of type SMS | Nokia, Nokia Shanghai Bell | CR 1828 24.501 Rel-16 | Agreed Revision of C1ah-200083 |
|  |  | C1ah-200177 | Correcting reference to NAS transparent container IE during S1 mode to N1 mode in 5GMM-CONNECTED mode | Qualcomm Incorporated | CR 1805 24.501 Rel-16 | Agreed Revision of C1ah-200049 |
|  |  | C1ah-200181 | Corrections on 5GMM cause #91 "DNN not supported or not subscribed in the slice" | Nokia, Nokia Shanghai Bell | CR 1834 24.501 Rel-16 | AgreedRevision of C1ah-200090 |
|  |  | C1ah-200187 | Handling multiple QoS errors during a PDU session establishment procedure | Qualcomm Incorporated, MediaTek Inc. / Amer | CR 1807 24.501 Rel-16 | AgreedRevision of C1ah-200051 |
|  |  | C1ah-200190 | Correction on N26 interface indicator | Huawei, HiSilicon/Lin | CR 1817 24.501 Rel-16 | AgreedRevision of C1ah-200068 |
|  |  | C1ah-200191 | Abnormal case for UL NAS TRANSPORT | ZTE | CR 1800 24.501 Rel-16 | AgreedRevision of C1ah-200041 |
|  |  | C1ah-200192 | Mapped EPS bearer contexts deletion | ZTE | CR 1798 24.501 Rel-16 | AgreedRevision of C1ah-200130\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Revision of C1ah-200039 |
|  |  | C1ah-200196 | Corrections on UE-initiated NAS transport procedure initiation | Nokia, Nokia Shanghai Bell | CR 1829 24.501 Rel-16 | AgreedRevision of C1ah-200176\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Revision of C1ah-200084 |
|  |  | C1ah-200201 | Abnormal case handling for 5GMM cause value #90 along with a PDU SESSION MODIFICATION REQUEST message | Nokia, Nokia Shanghai Bell | CR 1840 24.501 Rel-16 | AgreedRevision of C1ah-200097 |
|  |  | C1ah-200203 | Service area restrictons, condition for UE out of allowed tracking area list and RA is missing | Ericsson /kaj | CR 1853 24.501 Rel-16 | AgreedThere was a late request for a revision, some editorialRevision of C1ah-200170\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Revision of C1ah-200112 |
|  |  | C1ah-200205 | Reject non-emergency PDU session request attempt while registered for emergency services | Ericsson /kaj | CR 1845 24.501 Rel-16 | AgreedRevision of C1ah-200104**There was a reservation to raise concerns to this CR in February i.e., to not sending it for CT plenary for approval. Potential issues:*** **make the reason for change (scenario) clearer so implementers would understand the scenario when they need to implement this.**
* **to (re-)consider updating the proposal by using a reject cause different than #90 to the UE.**
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|  |  | C1ah-200208 | Correcting unimplementable condition regarding N26 interworking support detection | BlackBerry UK Ltd., Nokia, Nokia Shanghai Bell | CR 1781 24.501 Rel-16 | AgreedRevision of C1ah-200183\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Revision of C1ah-200086 |
|  |  | C1ah-200211 | Maintain Selected EPS NAS security algorithms during N1 mode to N1 mode handover | Huawei, HiSilicon/Cristina | CR 1784 24.501 Rel-16 | AgreedRevision of C1ah-200197\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Revision of C1ah-200019 |
|  |  | C1ah-200212 | Correction to handling of a PDU session for emergency service at SOR | MediaTek Inc. / Marko | CR 0488 23.122 Rel-16 | AgreedRevision of C1ah-200204\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Revision of C1ah-200202\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Revision of C1ah-200169\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Revision of C1ah-200116 |
|  |  | [C1-200332](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200332.zip) | Handling of unsupported SSC mode | Qualcomm Incorporated / Lena | CR 1794 24.501 Rel-16 | Revision of C1ah-200147 |
|  |  | [C1-200515](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200515.zip) | Deletion of the rejected NSSAI for the current registration area | Huawei, HiSilicon/Lin | CR 1812 24.501 Rel-16 | Revision of C1ah-200157 |
|  |  | [C1-200620](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200620.zip) | Dual-registration requirements for EHPLMNs | Intel, Qualcomm Incorporated / Vivek | CR 1974 24.501 Rel-16 | PostponedNEW CR for this WID, out of scope of the meeting |
|  |  | [C1-200680](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200680.zip) | Reject non-emergency PDU session request attempt while registered for emergency services | Ericsson /kaj | CR 1845 24.501 Rel-16 | Revision of C1ah-200205 |
|  |  | [C1-200719](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200719.zip) | Corrections in specifying reasons for errors | Nokia, Nokia Shanghai Bell | CR 1834 24.501 Rel-16 | Revision of C1ah-200181 |
|  |  | [C1-200631](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200631.zip) | S-NSSAI as a mandatory parameter to support interworking with 5GS | MediaTek Inc., Ericsson / JJ | CR 1836 24.501 Rel-16 | Revision of C1ah-200131 |
|  |  | [C1-200678](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200678.zip) | Service area restrictions, case missing for when UE is out of allowed tracking area list and RA | Ericsson /kaj | CR 1853 24.501 Rel-16 | Revision of C1ah-200203Moved from 16.2.8 |
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|  | 5GProtoc16-non3GPP |  | Peter – Main |  |  | Stage-3 5GS NAS protocol development related to non-3GPP access |
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|  | ATSSS |  | Peter – Main |  |  | CT aspects of Access Traffic Steering, Switch and Splitting support in 5G systemIs TS 24.193 sufficiently stable to be sent to CT#87-e for approval? |
|  |  | [C1-200286](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200286.zip) | ATSSS PCO parameters for 5G-RG | Ericsson / Ivo | CR 3211 24.008 Rel-16 |  |
|  |  | [C1-200287](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200287.zip) | Contents of ATSSS PCO parameters for 5G-RG | Ericsson / Ivo | pCR 24.193 Rel-16 |  |
|  |  | [C1-200288](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200288.zip) | Procedures for establishment of a PDN connection in EPS as a user-plane resource of a MA PDU session | Ericsson / Ivo | pCR 24.193 Rel-16 |  |
|  |  | [C1-200289](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200289.zip) | PDU session ID usage when the UE is a 5G-RG and requests establishment of a PDN connection in EPS as a user-plane resource of a MA PDU session | Ericsson / Ivo | CR 3326 24.301 Rel-16 |  |
|  |  | [C1-200299](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200299.zip) | 5GSM capabilities for MA PDU session | Motorola Mobility, Lenovo | CR 1860 24.501 Rel-16 | Revision of C1-200001C1-200299 and C1-200565 are competing |
|  |  | C1-200301 | MA PDU session is not supported | Motorola Mobility, Lenovo | CR 1862 24.501 Rel-16 | WithdrawnRevision of C1-200004 |
|  |  | [C1-200303](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200303.zip) | MA PDU session is not supported | Motorola Mobility, Lenovo | CR 1862 24.501 Rel-16 | Revision of C1-200004 |
|  |  | [C1-200313](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200313.zip) | Comparison of solutions for performance measurement function (PMF) protocol | Ericsson / Ivo | discussion Rel-16 |  |
|  |  | [C1-200314](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200314.zip) | Performance management function protocol | Ericsson / Ivo | pCR 24.193 Rel-16 | Revision of C1-200110Alternative to C1-200655 |
|  |  | [C1-200396](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200396.zip) | MA PDU session and one set of QoS parameters | Ericsson / Ivo | CR 1896 24.501 Rel-16 |  |
|  |  | [C1-200317](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200317.zip) | MA-PDU session activation in Restricted Service Area | InterDigital / Atle | pCR 24.193 Rel-16 | Revision of C1-200112 |
|  |  | [C1-200404](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200404.zip) | Minor Correction to ATSSS container IE desciption | China Mobile | CR 1903 24.501 Rel-16 |  |
|  |  | [C1-200406](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200406.zip) | Minor Correction to Traffic descriptor component type identifier of ATSSS rules | China Mobile | pCR 24.193 Rel-16 |  |
|  |  | [C1-200413](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200413.zip) | Removing editor's note | Motorola Mobility, Lenovo | pCR 24.193 Rel-16 | Partially overlapping with C1-200459 |
|  |  | [C1-200414](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200414.zip) | MA PDU session is not supported | Motorola Mobility France S.A.S | pCR 24.193 Rel-16 |  |
|  |  | [C1-200456](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200456.zip) | Discussion on handling of clause 5.2 of TS 24.193 | ZTE / Joy | discussion Rel-16 | Related to CRs in C1-200457, C1-200458 and C1-200459, describes two alternatives |
|  |  | [C1-200457](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200457.zip) | Move the content of clause 5.2 out of TS 24.193 | ZTE / Joy | pCR 24.193 Rel-16 | Alternative 1 described in C1-200456 |
|  |  | [C1-200458](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200458.zip) | Introduction of multi-access PDU connectivity service | ZTE / Joy | CR 1920 24.501 Rel-16 | Alternative 1 described in C1-200456 |
|  |  | [C1-200459](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200459.zip) | Remove editor's notes | ZTE / Joy | pCR 24.193 Rel-16 | Alternative 2 described in C1-200456Partially overlapping with C1-200413 |
|  |  | [C1-200460](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200460.zip) | Clarification on link-specific address/prefix | ZTE / Joy | pCR 24.193 Rel-16 |  |
|  |  | [C1-200461](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200461.zip) | Clarification on multi-homing and UL-CL funtionalities in MA PDU Session | ZTE / Joy | pCR 24.193 Rel-16 |  |
|  |  | [C1-200565](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200565.zip) | ATSSS Non-MPTCP traffic support | Apple | CR 1948 24.501 Rel-16 | C1-200299 and C1-200565 are competing |
|  |  | [C1-200567](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200567.zip) | ATSSS Non-MPTCP traffic support | Apple | pCR 24.193 Rel-16 |  |
|  |  | [C1-200627](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200627.zip) | Considering allowed NSSAI when establishing MA PDU session | MediaTek Inc., ZTE / JJ | CR 1976 24.501 Rel-16 |  |
|  |  | [C1-200628](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200628.zip) | UE Handling upon receipt of PDU session release command | MediaTek Inc. / JJ | CR 1977 24.501 Rel-16 |  |
|  |  | [C1-200629](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200629.zip) | Correction of release of user-plane resources | MediaTek Inc. / JJ | pCR 24.193 Rel-16 |  |
|  |  | [C1-200630](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200630.zip) | Correction of "a different PLMN" | MediaTek Inc. / JJ | pCR 24.193 Rel-16 |  |
|  |  | [C1-200655](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200655.zip) | ATSSS Performance Measurement Function Protocols and Procedures | Apple, Deutsche Telekom, Charter Communications | pCR 24.193 Rel-16 | Revision of C1-199051Alternative to C1-200314 |
|  |  | [C1-200747](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200747.zip) | service request for multiple access PDU session  | Samsung /Grace  | pCR 24.193 Rel-16 |  |
|  |  | C1-200760 | ATSSS 5GSM capability indication | Nokia, Nokia Shanghai Bell | CR 2024 24.501 Rel-16 | WithdrawnLATE |
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|  | eNS |  | Peter – Main |  |  | CT aspects on enhancement of network slicing |
|  |  | [C1-200318](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200318.zip) | Cleanups of the Pending NSSAI | InterDigital / Atle | CR 1869 24.501 Rel-16 | Revision of C1-200113 |
|  |  | [C1-200320](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200320.zip) | Alignment of error codes with 3GPP TS 24.501 | InterDigital / Atle | CR 0683 27.007 Rel-16 | Revision of C1-200315 |
|  |  | [C1-200352](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200352.zip) | Handling of S-NSSAIs in the pending NSSAI | LG Electronics / Sunhee | CR 1889 24.501 Rel-16 | See also C1-200318 & 0405 & 0579Covers the change in C1-200702.Covers the change in C1-200401.Covers the change in C1-200690 |
|  |  | [C1-200392](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200392.zip) | Clarification on HPLMN S-NSSAI | LG Electronics / Sunhee Kim | CR 1893 24.501 Rel-16 | See also C1-200432.Different proposals. |
|  |  | [C1-200393](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200393.zip) | Adding NSSAA result indication into Network slicing indication IE of the CONFIGURATION UPDATE COMMAND message | China Telecommunications | CR 1894 24.501 Rel-16 |  |
|  |  | [C1-200394](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200394.zip) | Adding NSSAA failed or revoked to 5GSM and 5GMM cause IE | China Telecommunications | CR 1895 24.501 Rel-16 |  |
|  |  | [C1-200399](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200399.zip) | Update to registration procedure due to eNS | vivo / Yanchao | CR 1899 24.501 Rel-16 |  |
|  |  | [C1-200401](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200401.zip) | Definition of Rejected NSSAI due to the failed and revorked NSSAA  | vivo / Yanchao | CR 1901 24.501 Rel-16 | Covered by C1-200352. |
|  |  | [C1-200354](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200354.zip) | Correcting condition for Network Slice-Specific Authentication and Authorization | Samsung Electronics Polska / Ricky | CR 1890 24.501 Rel-16 | Covered by C1-200697 |
|  |  | [C1-200405](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200405.zip) | Updating requirements and descriptions of NS for NSSAA | China Mobile | CR 1904 24.501 Rel-16 | See also C1-200352 |
|  |  | [C1-200407](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200407.zip) | Clarification of T35xx timer during Network slice-specific authentication and authorization procedure | LG Electronics / Sunhee Kim | CR 1905 24.501 Rel-16 | Covered by C1-200432 |
|  |  | [C1-200415](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200415.zip) | Network-requested PDU session release due no longer available S-NSSAI | Motorola Mobility, Lenovo, China Mobile | CR 1906 24.501 Rel-16 | See also C1-200395, 0704, 0695Three different proposals in C1-200704,0695 and C1-200415 |
|  |  | [C1-200428](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200428.zip) | Work Plan for eNS in CT1 | ZTE | Work Plan Rel-16 |  |
|  |  | [C1-200429](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200429.zip) | Deleting Editors note regarding indefinite wait at the UE for NSSAA completion | ZTE | CR 1912 24.501 Rel-16 | See also C1-200494.Different proposals.Related to the outgoing LS in C1-200434 |
|  |  | [C1-200430](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200430.zip) | UE behaviour for other causes in the rejected NSSAI during deregistration procedure | ZTE | CR 1913 24.501 Rel-16 |  |
|  |  | [C1-200431](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200431.zip) | Pending NSSAI update for the configured NSSAI in the CUC message | ZTE | CR 1914 24.501 Rel-16 |  |
|  |  | [C1-200432](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200432.zip) | Cleanup for NSSAA message and coding | ZTE | CR 1915 24.501 Rel-16 | See also C1-200392.Also covers the changes in C1-200407 |
|  |  | [C1-200433](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200433.zip) | Rejected NSSAI during the initial registration procedure | ZTE | CR 1916 24.501 Rel-16 |  |
|  |  | [C1-200462](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200462.zip) | Name of the rejected NSSAI cause values | vivo | CR 1921 24.501 Rel-16 |  |
|  |  | [C1-200494](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200494.zip) | Prevention of indefinite wait for completion of the network slice-specific authentication and authorization procedure | InterDigital / Atle | CR 1929 24.501 Rel-16 | See also C1-200429. |
|  |  | [C1-200509](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200509.zip) | Requested NSSAI creation from configured NSSAI excluding pending NSSA | Huawei, HiSilicon/Lin | CR 1939 24.501 Rel-16 | See also C1-200724 |
|  |  | [C1-200510](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200510.zip) | Remove mobility restriction after NSSAA | Huawei, HiSilicon/Lin | CR 1940 24.501 Rel-16 | See also C1-200602 |
|  |  | [C1-200511](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200511.zip) | ENs resolution for revoked or failed NSSAA | Huawei, HiSilicon/Lin | CR 1941 24.501 Rel-16 | See also C1-200683, C1-200694 |
|  |  | [C1-200512](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200512.zip) | Consistent name for NSSAA | Huawei, HiSilicon/Lin | CR 1942 24.501 Rel-16 |  |
|  |  | [C1-200572](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200572.zip) | EPS selection when the UE is deregistered due to NSSAA failure | Samsung/Kundan | CR 1950 24.501 Rel-16 |  |
|  |  | [C1-200574](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200574.zip) | Handling of NSSAA at non suppoting AMF | Samsung/Kundan | CR 1951 24.501 Rel-16 |  |
|  |  | [C1-200575](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200575.zip) | PDN connection establishment and NSSAA | Samsung/Kundan | CR 1952 24.501 Rel-16 |  |
|  |  | [C1-200576](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200576.zip) | NSSAA revocation function | Samsung/Kundan | CR 1953 24.501 Rel-16 |  |
|  |  | [C1-200577](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200577.zip) | Intersystem selection procedure when all allowed S-NSSAI are subject to NSSAA | Samsung/Kundan | CR 1954 24.501 Rel-16 |  |
|  |  | [C1-200579](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200579.zip) | Correction related the rejected NSSAI due to the failed or revoked NSSAA | SHARP | CR 1955 24.501 Rel-16 | See also C1-200352. |
|  |  | [C1-200582](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200582.zip) | Correction UE behaviour when the UE recives the pending NSSAI | SHARP | CR 1958 24.501 Rel-16 |  |
|  |  | [C1-200584](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200584.zip) | Correction related the rejected NSSAI | SHARP | CR 1960 24.501 Rel-16 |  |
|  |  | [C1-200601](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200601.zip) | Discussion on eNS | BEIJING SAMSUNG TELECOM R&D | discussion  |  |
|  |  | [C1-200602](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200602.zip) | Removal of the use of Service area list IE during NSSAA | BEIJING SAMSUNG TELECOM R&D | CR 1971 24.501 Rel-16 | Related to DP C1-200601See also C1-200510. |
|  |  | [C1-200604](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200604.zip) | Re-initiation of NSSAA for a registered UE | BEIJING SAMSUNG TELECOM R&D | CR 1972 24.501 Rel-16 |  |
|  |  | [C1-200605](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200605.zip) | Additional triggers for deletion of pending S-NSSAI | Samsung/Anikethan | CR 1973 24.501 Rel-16 |  |
|  |  | [C1-200683](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200683.zip) | NW slice authentication and authorization failure and revocation | Ericsson /kaj | CR 1533 24.501 Rel-16 | Revision of C1-198772Partly overlaps with C1-200511 |
|  |  | [C1-200689](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200689.zip) | No default S-NSSAI | Nokia, Nokia Shanghai Bell | CR 1988 24.501 Rel-16 |  |
|  |  | [C1-200690](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200690.zip) | Missing NSSAI storage for rejected NSSAI due to the failed or revoked network slice-specific authentication and authorization | NEC | CR 1989 24.501 Rel-16 | Covered by C1-200352 |
|  |  | [C1-200691](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200691.zip) | Updating NSSAI status in AMF | NEC | CR 1990 24.501 Rel-16 |  |
|  |  | [C1-200692](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200692.zip) | AMF updates the UE NSSAI storage after network slice-specific authentication and authorization is completed | NEC | CR 1991 24.501 Rel-16 |  |
|  |  | [C1-200693](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200693.zip) | NSSAI status in AMF | NEC | CR 1992 24.501 Rel-16 |  |
|  |  | [C1-200694](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200694.zip) | NSSAI storage at UE – pending NSSAI | NEC | CR 1993 24.501 Rel-16 | See also 0511, 0683 |
|  |  | [C1-200695](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200695.zip) | Release of PDU sessions due to revocation from AAA server or re-auth failure | NEC | CR 1994 24.501 Rel-16 | See also C1-200415 & 0704Three different proposals in C1-200704,0695 and C1-200415 |
|  |  | [C1-200696](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200696.zip) | Clarification on the S-NSSAI not subject to NSSAA included in allowed NSSAI | Nokia, Nokia Shanghai Bell | CR 1995 24.501 Rel-16 |  |
|  |  | [C1-200697](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200697.zip) | Subscribed S-NSSAI marked as default and NSSAA | Nokia, Nokia Shanghai Bell | CR 1996 24.501 Rel-16 | Covers the change in C1-200354 |
|  |  | [C1-200698](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200698.zip) | Additional conditions to the presence in the subscribed S-NSSAIs | Nokia, Nokia Shanghai Bell | CR 1997 24.501 Rel-16 |  |
|  |  | [C1-200702](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200702.zip) | Definition of pending NSSAI | Nokia, Nokia Shanghai Bell | CR 1999 24.501 Rel-16 | Covered by C1-200352. |
|  |  | [C1-200703](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200703.zip) | Emergency PDU session handling after NSSAA failure | Nokia, Nokia Shanghai Bell | CR 2000 24.501 Rel-16 |  |
|  |  | [C1-200704](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200704.zip) | Release of a PDU session due to failure/revocation in NSSAA | Nokia, Nokia Shanghai Bell | CR 2001 24.501 Rel-16 | See also C1-200415 & 0695Three different proposals in C1-200704,0695 and   C1-200415 |
|  |  | [C1-200724](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200724.zip) | Request S-NSSAI pending the NW slice-specific authentication and authorization | Ericsson /kaj | CR 2004 24.501 Rel-16 | See also C1-200509 |
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|  | Vertical\_LAN |  | Peter – Main |  |  | CT aspects of 5GS enhanced support of vertical and LAN servicesTS 24.534 has been withdrawnIs TS 24.535 sufficiently stable to be sent to CT#87-e for approvalIs TS 24.519 sufficiently stable to be sent to CT#87-e for approval? |
|  |  |  |  |  |  | Stand-alone NPN |
|  |  | [C1-200762](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200762.zip) | Work plan for CT aspects of Vertical\_LAN | Nokia, Nokia Shanghai Bell | discussion Rel-16 |  |
|  |  | C1-200767 | Work plan for CT aspects of Vertical\_LAN | Nokia, Nokia Shanghai Bell | discussion Rel-16 | Revision of C1-200762 |
|  |  | [C1-200466](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200466.zip) | Correction to Limited service state for SNPN | Huawei, HiSilicon / Vishnu | CR 0492 23.122 Rel-16 |  |
|  |  | [C1-200551](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200551.zip) | UE receives CAG information in SNPN access mode | Huawei, HiSilicon/Cristina | CR 1946 24.501 Rel-16 |  |
|  |  | [C1-200587](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200587.zip) | Correlation of SNPN entry stored in ME and USIM | Samsung/Kundan | CR 1963 24.501 Rel-16 |  |
|  |  | C1-200591 | Modification of the allowed CAG list | Samsung/Kundan | CR 1965 24.501 Rel-16 | PostponedDocument was LATE |
|  |  | [C1-200599](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200599.zip) | Handlig of PLMN specific NID  | Samsung/Kundan | CR 1969 24.501 Rel-16 |  |
|  |  | [C1-200333](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200333.zip) | Removal of Editor’s note on the use of the NOTIFICATION message in SNPNs | Qualcomm Incorporated / Lena | CR 1882 24.501 Rel-16 |  |
|  |  | [C1-200334](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200334.zip) | Updating length of NID | Qualcomm Incorporated, Ericsson, Nokia, Nokia Shanghai Bell / Lena | CR 0115 24.502 Rel-16 |  |
|  |  | [C1-200464](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200464.zip) | Clarification of forbidden TAI lists for SNPN | vivo | CR 1923 24.501 Rel-16 |  |
|  |  | [C1-200469](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200469.zip) | Clarify that access to RLOS is not supported in SNPN | Huawei, HiSilicon / Vishnu | CR 0494 23.122 Rel-16 |  |
|  |  | [C1-200470](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200470.zip) | Clarification of the rejected NSSAI cause value | vivo | CR 1926 24.501 Rel-16 |  |
|  |  | [C1-200504](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200504.zip) | Correction on 5GMM cause #74/#75 for no touching non-3GPP access | Huawei, HiSilicon/Lin | CR 1935 24.501 Rel-16 |  |
|  |  | [C1-200505](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200505.zip) | 5GMM cause #72 not used in SNPN | Huawei, HiSilicon/Lin | CR 1936 24.501 Rel-16 |  |
|  |  | [C1-200506](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200506.zip) | Correction on term “non-3GPP access” used in SNPN | Huawei, HiSilicon/Lin | CR 1937 24.501 Rel-16 |  |
|  |  | [C1-200507](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200507.zip) | Correction on term “shared network” definition for SNPN | Huawei, HiSilicon/Lin | CR 0497 23.122 Rel-16 |  |
|  |  | [C1-200600](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200600.zip) | Handling of LADN infotmation when the UE operating in SNPN access mode | SHARP | CR 1970 24.501 Rel-16 |  |
|  |  | [C1-200681](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200681.zip) | Update SNPN key differences | Intel / Thomas | CR 1985 24.501 Rel-16 |  |
|  |  | [C1-200686](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200686.zip) | UE identifier for SNPN | Nokia, Nokia Shanghai Bell, Qualcomm Incorporated, Vodafone, Charter Communications, NTT DOCOMO, Ericsson | CR 0498 23.122 Rel-16 |  |
|  |  | [C1-200735](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200735.zip) | Correction in UE ehaviour upon receipt of 5GMM cause value #74 or #75 via a non-integrity protected NAS message | Nokia, Nokia Shanghai Bell | CR 2010 24.501 Rel-16 |  |
|  |  | [C1-200736](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200736.zip) | List of SNPNs for which the N1 mode capability was disabled | Nokia, Nokia Shanghai Bell | CR 0502 23.122 Rel-16 |  |
|  |  | [C1-200737](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200737.zip) | Introduction of SNPN-specific N1 mode attempt counters | Nokia, Nokia Shanghai Bell | CR 2011 24.501 Rel-16 |  |
|  |  | [C1-200738](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200738.zip) | N1 mode capability disabling and re-enabling for SNPN | Nokia, Nokia Shanghai Bell | CR 2012 24.501 Rel-16 |  |
|  |  | [C1-200739](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200739.zip) | #72 applicable and #31 not applicable in an SNPN | Nokia, Nokia Shanghai Bell | CR 2013 24.501 Rel-16 |  |
|  |  | [C1-200740](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200740.zip) | T3245 in an SNPN | Nokia, Nokia Shanghai Bell | CR 2014 24.501 Rel-16 |  |
|  |  | [C1-200741](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200741.zip) | Validity of the USIM for an SNPN and for a specific access type | Nokia, Nokia Shanghai Bell | CR 2015 24.501 Rel-16 |  |
|  |  | [C1-200742](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200742.zip) | Handling of 5GMM cause values #62 in an SNPN | Nokia, Nokia Shanghai Bell | CR 2016 24.501 Rel-16 |  |
|  |  | [C1-200743](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200743.zip) | No mandate to support default configured NSSAI or network slicing indication | Nokia, Nokia Shanghai Bell | CR 2017 24.501 Rel-16 |  |
|  |  | [C1-200744](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200744.zip) | SNN coding | Nokia, Nokia Shanghai Bell | CR 2018 24.501 Rel-16 |  |
|  |  | [C1-200745](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200745.zip) | 5GMM cause value #74 in an SNPN with a globally-unique SNPN identity | Nokia, Nokia Shanghai Bell | CR 2019 24.501 Rel-16 |  |
|  |  | [C1-200746](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200746.zip) | Display of the human readable name of an SNPN | Nokia, Nokia Shanghai Bell | CR 0503 23.122 Rel-16 |  |
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|  |  |  |  |  |  | Public network integrated NPN |
|  |  | [C1-200291](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200291.zip) | CAG information list storage | Ericsson / Ivo | CR 1879 24.501 Rel-16 |  |
|  |  | [C1-200311](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200311.zip) | CAG-ID not provided to lower layers during NAS signalling connection establishment | Ericsson / Ivo | CR 1880 24.501 Rel-16 |  |
|  |  | [C1-200316](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200316.zip) | CAG Information in Registration Reject | InterDigital / Atle | CR 1868 24.501 Rel-16 | Revision of C1-200111 |
|  |  | [C1-200335](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200335.zip) | Signalling of CAG-ID | Qualcomm Incorporated / Lena | discussion Rel-16 |  |
|  |  | [C1-200336](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200336.zip) | Clarification to manual CAG selection | Qualcomm Incorporated / Lena | CR 0489 23.122 Rel-16 |  |
|  |  | [C1-200337](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200337.zip) | Removal of the requirement for NAS to pass the selected CAG-ID to the lower layers | Qualcomm Incorporated / Lena | CR 1883 24.501 Rel-16 |  |
|  |  | [C1-200398](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200398.zip) | “CAG information list” preventing selection of any available and allowable PLMN | Ericsson / Ivo | CR 1898 24.501 Rel-16 |  |
|  |  | [C1-200403](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200403.zip) | Clarification on CAG selection | Intel / Thomas | CR 0490 23.122 Rel-16 |  |
|  |  | [C1-200338](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200338.zip) | Including CAG information list in REGISTRATION ACCEPT message | Qualcomm Incorporated / Lena | CR 1884 24.501 Rel-16 |  |
|  |  | [C1-200451](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200451.zip) | Discussion on limited service on CAG cell | Huawei, HiSilicon/Vishnu | discussion 23.122 Rel-16 |  |
|  |  | [C1-200452](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200452.zip) | Limited service state on CAG cell | Huawei, HiSilicon / Vishnu | CR 0491 23.122 Rel-16 |  |
|  |  | [C1-200465](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200465.zip) | Deletion of all CAG IDs of a CAG cell for 5GMM cause #76 | Huawei, HiSilicon / Vishnu | CR 1924 24.501 Rel-16 |  |
|  |  | [C1-200467](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200467.zip) | Removal of the indication of CAG-ID for N1 NAS signalling connection | Huawei, HiSilicon / Vishnu | CR 1925 24.501 Rel-16 |  |
|  |  | [C1-200468](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200468.zip) | Presentation of PLMN with non-CAG cells for manual selection | Huawei, HiSilicon / Vishnu | CR 0493 23.122 Rel-16 |  |
|  |  | [C1-200471](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200471.zip) | Removal of term CAG access control | Huawei, HiSilicon / Vishnu | CR 1927 24.501 Rel-16 |  |
|  |  | [C1-200508](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200508.zip) | Reset the registration attempt counter for #76 in service reject | Huawei, HiSilicon/Lin | CR 1938 24.501 Rel-16 |  |
|  |  | [C1-200516](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200516.zip) | Updates for Manual CAG selection | Huawei, HiSilicon / Vishnu | CR 1554 24.501 Rel-16 | Revision of C1-198992Seem to conflict with C1-200701 |
|  |  | [C1-200517](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200517.zip) | Configuration for the presentation of CAG cells for manual CAG selection | Huawei, HiSilicon / Vishnu | CR 0471 23.122 Rel-16 | Revision of C1-199010 |
|  |  | [C1-200549](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200549.zip) | Clarification on Public Network Integrated NPN in TS 24.501 | China Telecom | CR 1945 24.501 Rel-16 |  |
|  |  | [C1-200578](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200578.zip) | Discussion on requirement of sending CAG ID by UE | Samsung/Kundan | discussion 24.501 Rel-16 |  |
|  |  | [C1-200581](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200581.zip) | Handling of manual CAG selection procedure | Samsung/Kundan | CR 1957 24.501 Rel-16 |  |
|  |  | [C1-200586](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200586.zip) | CAG only UE and Manual PLMN selection | Samsung/Kundan | CR 1962 24.501 Rel-16 |  |
|  |  | [C1-200589](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200589.zip) | Handling of a CAG UE at non supporting AMF | Samsung/Kundan | CR 1964 24.501 Rel-16 |  |
|  |  | [C1-200688](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200688.zip) | CAG information towards the lower layers for paging | Nokia, Nokia Shanghai Bell | CR 1567 24.501 Rel-16 | Revision of C1-196737 |
|  |  | [C1-200700](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200700.zip) | Manual CAG selection | Nokia, Nokia Shanghai Bell | CR 0499 23.122 Rel-16 |  |
|  |  | [C1-200701](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200701.zip) | Triggering mobility registration update due to manual CAG selection | Nokia, Nokia Shanghai Bell | CR 1998 24.501 Rel-16 | Seem to conflict with C1-200516 |
|  |  | [C1-200728](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200728.zip) | Rejection of non-emergency PDU session establishment with 5GMM cause #76 | Nokia, Nokia Shanghai Bell | CR 2007 24.501 Rel-16 |  |
|  |  | [C1-200729](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200729.zip) | Handling of a UE with an emergency PDU session in terms of CAG | Nokia, Nokia Shanghai Bell | CR 2008 24.501 Rel-16 |  |
|  |  | [C1-200730](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200730.zip) | Determination of CAG cell | Nokia, Nokia Shanghai Bell | CR 0500 23.122 Rel-16 |  |
|  |  | [C1-200731](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200731.zip) | Discussion to manual CAG selection | Ericsson / Ivo | discussion Rel-16 |  |
|  |  | [C1-200732](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200732.zip) | Manual CAG selection | Ericsson / Ivo | CR 0501 23.122 Rel-16 |  |
|  |  | [C1-200733](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200733.zip) | Manual CAG selection – providing HRNN | Ericsson / Ivo | CR 2009 24.501 Rel-16 |  |
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|  |  |  |  |  |  | Time sensitive communication |
|  |  | [C1-200329](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200329.zip) | Support for per-stream filtering and policing | Intel / Thomas | other Rel-16 |  |
|  |  | [C1-200330](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200330.zip) | Support for traffic forwarding | Intel, Nokia, Nokia Shanghai Bell | other Rel-16 |  |
|  |  | [C1-200331](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200331.zip) | Additional LLDP parameters | Intel / Thomas | other Rel-16 |  |
|  |  | [C1-200339](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200339.zip) | Update of text on time synchronization | Qualcomm Incorporated / Lena | CR 1885 24.501 Rel-16 |  |
|  |  | [C1-200411](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200411.zip) | Port management corrections | Intel / Thomas | other Rel-16 |  |
|  |  | [C1-200493](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200493.zip) | Definition alignment for UE-DS-TT residence time | vivo | CR 1928 24.501 Rel-16 |  |
|  |  | [C1-200564](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200564.zip) | Establish PDU session to transfer port management information containers | Huawei, HiSilicon/Cristina | CR 1947 24.501 Rel-16 | CRs in C1-200685, C1-200290, C1-200564 conflict |
|  |  | [C1-200566](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200566.zip) | Correction on port management message direction | Huawei, HiSilicon/Cristina | pCR 24.519 Rel-16 |  |
|  |  | [C1-200570](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200570.zip) | Add PSFP parameters | Huawei, HiSilicon/Cristina | pCR 24.519 Rel-16 |  |
|  |  | [C1-200571](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200571.zip) | Correction for the wrongly implemented CR1963r1 | Huawei, HiSilicon/Cristina | CR 1949 24.501 Rel-16 |  |
|  |  | [C1-200573](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200573.zip) | Exchange port management information container through N4 Session Level Reporting procedure | Huawei, HiSilicon/Cristina | pCR 24.519 Rel-16 |  |
|  |  | [C1-200687](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200687.zip) | Port management IE format and length updates | Intel / Thomas | other Rel-16 |  |
|  |  | [C1-200706](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200706.zip) | Resolving editor’s notes on reliable transmission | Nokia, Nokia Shanghai Bell | pCR 24.519 Rel-16 |  |
|  |  | [C1-200708](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200708.zip) | Duplicated Ethernet port parameters in case of validation and generation of LLDP frames processed centrally at NW-TT | Nokia, Nokia Shanghai Bell | pCR 24.519 Rel-16 |  |
|  |  | [C1-200734](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200734.zip) | Clarification on calculation of the residence time spent within the 5G system | Intel / Thomas | pCR 24.535 Rel-16 |  |
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|  | 5G\_CioT |  | Peter – Main |  |  | CT aspects of Cellular IoT support and evolution for the 5G System |
|  |  | [C1-200298](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200298.zip) | Update of Reading coverage enhancement status +CRCES for Connection to 5G Core Network | BlackBerry UK Limited | CR 0684 27.007 Rel-16 | Revision of C1-200116 |
|  |  | [C1-200328](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200328.zip) | Removal of EN and additional abnormal case for cause #31 | Samsung/Anikethan | CR 1881 24.501 Rel-16 |  |
|  |  | [C1-200351](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200351.zip) | Removal of EN and additional abnormal case for cause #31 | Samsung/Anikethan | CR 3330 24.301 Rel-16 |  |
|  |  | [C1-200368](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200368.zip) | Addition of MT-EDT support indication | Ericsson, Qualcomm Incorporated, OPPO / Mikael | CR 3332 24.301 Rel-16 |  |
|  |  | [C1-200383](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200383.zip) | Resolve Editor´s Notes on NB-N1 mode extended NAS timers for CE | Ericsson / Mikael | CR 1891 24.501 Rel-16 |  |
|  |  | [C1-200384](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200384.zip) | Resolve Editor´s Notes on WB-N1 mode extended NAS timers for CE | Ericsson / Mikael | CR 1892 24.501 Rel-16 |  |
|  |  | [C1-200397](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200397.zip) | “MO exception data” access category | Ericsson / Ivo | CR 1897 24.501 Rel-16 | C1-200397, C1-200421 and C1-200677 overlap, all related to incoming LS in C1-200227  |
|  |  | [C1-200355](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200355.zip) | Applicability of UE specific DRX Parameter for NB-S1 mode Indicator | Vodafone GmbH | CR 3331 24.301 Rel-16 | C1-200355, C1-200417, C1-200498 overlapping, All related to the incoming LS in C1-200237 |
|  |  | [C1-200400](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200400.zip) | Stop T3565 upon connection resumption | vivo / Yanchao | CR 1900 24.501 Rel-16 | Corrected agenda |
|  |  | [C1-200417](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200417.zip) | Support for UE specific DRX for NB-S1 mode | Qualcomm Incorporated, Ericsson / Amer | discussion Rel-16 | C1-200355, C1-200417, C1-200498 overlapping, All related to the incoming LS in C1-200237 |
|  |  | [C1-200418](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200418.zip) | Support for the signalling of the capability for receiving WUS assistance information | Qualcomm Incorporated / Amer | CR 1907 24.501 Rel-16 |  |
|  |  | [C1-200419](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200419.zip) | Handling of user-plane resources for NB-IoT UEs having at least two PDU sessions | Qualcomm Incorporated, Ericsson / Amer | CR 1672 24.501 Rel-16 | Revision of C1-198585C1-200419 and C1-200497 overlap |
|  |  | [C1-200420](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200420.zip) | 5GSM congestion timers apply to data transfer over control plane | Qualcomm Incorporated / Amer | CR 1908 24.501 Rel-16 |  |
|  |  | [C1-200421](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200421.zip) | Definition of a new access category for MO exception data | Qualcomm Incorporated / Amer | CR 1909 24.501 Rel-16 | C1-200397, C1-200421 and C1-200677 overlap, all related to incoming LS in C1-200227 |
|  |  | [C1-200424](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200424.zip) | Update of +CNMPSD for NR | BlackBerry UK Ltd. | CR 0685 27.007 Rel-16 |  |
|  |  | [C1-200435](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200435.zip) | UE behaviour when T3447 running | ZTE | CR 1917 24.501 Rel-16 |  |
|  |  | [C1-200495](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200495.zip) | Enhancement on CPSR for CIoT CP data transport | Huawei, HiSilicon, Vodafone, ZTE, China Mobile, China Telecom, CATT/Lin | CR 1701 24.501 Rel-16 | Revision of C1-198581 |
|  |  | [C1-200496](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200496.zip) | Ciphering and deciphering handling of CPSR message | Huawei, HiSilicon/Lin | CR 1930 24.501 Rel-16 |  |
|  |  | [C1-200497](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200497.zip) | UE-requested user-plane resources release in NB-N1 mode | Huawei, HiSilicon/Lin | CR 1931 24.501 Rel-16 | C1-200419 and C1-200497 overlap |
|  |  | [C1-200498](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200498.zip) | NAS evaluation on options for UE specific DRX for NB-IoT | Huawei, HiSilicon/Lin | discussion Rel-16 | C1-200355, C1-200417, C1-200498 overlapping, All related to the incoming LS in C1-200237 |
|  |  | [C1-200500](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200500.zip) | Discussion on truncated 5G-S-TMSI over NAS | Huawei, HiSilicon/Lin | discussion Rel-16 |  |
|  |  | [C1-200501](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200501.zip) | Truncated 5G-S-TMSI over NAS | Huawei, HiSilicon/Lin | CR 1932 24.501 Rel-16 |  |
|  |  | [C1-200502](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200502.zip) | AMF behavior on stop T3448 | Huawei, HiSilicon/Lin | CR 1933 24.501 Rel-16 |  |
|  |  | [C1-200503](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200503.zip) | No SMS in payload container IE in CPSR message | Huawei, HiSilicon/Lin | CR 1934 24.501 Rel-16 |  |
|  |  | [C1-200580](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200580.zip) | Stopping of T3513 after connection resume for user plane CIoT 5GS optimization | Samsung/Mahmoud | CR 1956 24.501 Rel-16 |  |
|  |  | [C1-200583](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200583.zip) | 5G-GUTI reallocation after resume from 5GMM-IDLE mode with suspend indication due to paging | Samsung/Mahmoud | CR 1959 24.501 Rel-16 |  |
|  |  | [C1-200585](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200585.zip) | Adding an editor’s note for suspend indication due to user plane CIoT 5GS optimization | Samsung/Mahmoud | CR 1961 24.501 Rel-16 |  |
|  |  | [C1-200588](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200588.zip) | Ambiguity in the suspend indication from lower layers to the NAS | Samsung/Mahmoud | discussion 24.501 Rel-16 |  |
|  |  | [C1-200592](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200592.zip) | Recovery from fallback for UEs using CP CIoT optimization | Samsung/Mahmoud | CR 1966 24.501 Rel-16 |  |
|  |  | [C1-200593](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200593.zip) | Service area restrictions for UEs using CIoT 5GS optimization | Samsung/Mahmoud | CR 1967 24.501 Rel-16 |  |
|  |  | [C1-200594](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200594.zip) | Adding reference to TS 24.501 for exception data reporting  | Samsung/Mahmoud | CR 0047 24.368 Rel-16 |  |
|  |  | [C1-200618](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200618.zip) | Value range of UE specific DRX in NB-S1 mode | Vodafone GmbH | CR 3212 24.008 Rel-16 |  |
|  |  | [C1-200626](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200626.zip) | Indication of change in the use of enhanced coverage | BEIJING SAMSUNG TELECOM R&D | CR 1975 24.501 Rel-16 |  |
|  |  | [C1-200658](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200658.zip) | Correction to UL CIoT user data container not routable or not allowed to be routed | Ericsson /kaj | CR 1978 24.501 Rel-16 |  |
|  |  | [C1-200661](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200661.zip) | Single downlink data only indication and release of NAS signalling connection | Ericsson /kaj | CR 1979 24.501 Rel-16 |  |
|  |  | [C1-200663](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200663.zip) | PDU session status with control plane service request message | Ericsson /KAJ | CR 1980 24.501 Rel-16 |  |
|  |  | [C1-200666](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200666.zip) | Service gap control timer corrections | Ericsson /kaj | CR 3335 24.301 Rel-16 |  |
|  |  | [C1-200669](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200669.zip) | Service gap control, correction when to start service gap control timer in UE and NW | Ericsson /kaj | CR 1981 24.501 Rel-16 |  |
|  |  | [C1-200672](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200672.zip) | Clarification of control plane service request message options | Ericsson /kaj | CR 1982 24.501 Rel-16 |  |
|  |  | [C1-200675](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200675.zip) | CIoT user data container in CPSR message not forwarded | Ericsson /kaj | CR 1743 24.501 Rel-16 | Revision of C1-198950 |
|  |  | [C1-200677](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200677.zip) | UAC updates for NB-IoT to include "MO exception data" | DOCOMO Communications Lab. | CR 1983 24.501 Rel-16 | C1-200397, C1-200421 and C1-200677 overlap, all related to incoming LS in C1-200227 |
|  |  | [C1-200679](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200679.zip) | Clarification on the use of exception data reporting  | DOCOMO Communications Lab. | CR 1984 24.501 Rel-16 |  |
|  |  | [C1-200682](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200682.zip) | MO exception data for NB-IoT in 5G | DOCOMO Communications Lab., Ericsson | CR 1986 24.501 Rel-16 | WithdrawnCR was withdrawn as it used a CR number requested for 24.501 instead of 24.368 |
|  |  | [C1-200773](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200773.zip) | MO exception data for NB-IoT in 5G | DOCOMO Communications Lab., Ericsson | CR 0048 24.368 Rel-16 | CR was originally provided as C1-200682, on time, new CR number was needed for 24.368 |
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|  | 5WWC |  | Peter – Main |  |  | CT aspects on wireless and wireline convergence for the 5G system architecture |
|  |  | [C1-200276](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200276.zip) | Secondary authentication and W-AGF acting on behalf of FN-RG | Ericsson / Ivo | CR 1689 24.501 Rel-16 | Revision of C1-198161 |
|  |  | [C1-200277](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200277.zip) | EAP-5G handling and transport of NAS messages for wireline access | Ericsson / Ivo | CR 0110 24.502 Rel-16 | Revision of C1-198159 |
|  |  | [C1-200278](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200278.zip) | SUCI used by W-AGF acting on behalf of FN-RG | Ericsson / Ivo | CR 1870 24.501 Rel-16 | Conflict with C1-200754 in subclause 5.3.2 |
|  |  | [C1-200279](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200279.zip) | Resolving editor's note on W-AGF acting on behalf of FN-RG not using the "null integrity protection algorithm" 5G-IA0 | Ericsson / Ivo | CR 1871 24.501 Rel-16 |  |
|  |  | [C1-200280](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200280.zip) | Resolving editor's note on service area restrictions in case of FN-BRG | Ericsson / Ivo | CR 1872 24.501 Rel-16 |  |
|  |  | [C1-200281](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200281.zip) | Resolving editor's note in forbidden wireline access area | Ericsson / Ivo | CR 1873 24.501 Rel-16 |  |
|  |  | [C1-200282](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200282.zip) | Wireline 5G access network and wireline 5G access | Ericsson / Ivo | CR 1874 24.501 Rel-16 |  |
|  |  | [C1-200283](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200283.zip) | PEI clean up | Ericsson / Ivo | CR 1875 24.501 Rel-16 |  |
|  |  | [C1-200284](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200284.zip) | Alignment for stop of enforcement of mobility restrictions in 5G-RG and W-AGF acting on behalf of FN-CRG | Ericsson / Ivo | CR 1876 24.501 Rel-16 |  |
|  |  | [C1-200285](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200285.zip) | Introduction of GCI and GLI | Ericsson / Ivo | CR 1877 24.501 Rel-16 |  |
|  |  | [C1-200297](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200297.zip) | Removal of editor notes | BlackBery UK Ltd. Motorola Mobility, Lenovo | CR 0114 24.502 Rel-16 | Revision of C1-200114 |
|  |  | [C1-200300](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200300.zip) | Additional QoS Information in an untrusted non-3GPP network | Motorola Mobility, Lenovo | CR 0111 24.502 Rel-16 | Revision of C1-200002 |
|  |  | [C1-200302](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200302.zip) | Removal of editor's notes for N5CW device | Motorola Mobility, Lenovo | CR 0112 24.502 Rel-16 | Revision of C1-200005 |
|  |  | [C1-200304](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200304.zip) | Removal of an editor's note | Motorola Mobility, Lenovo, BlackBerry UK Ltd. | CR 0113 24.502 Rel-16 | Revision of C1-200006 |
|  |  | [C1-200305](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200305.zip) | PDU session handling for N5CW device | Motorola Mobility, Lenovo | CR 1641 24.501 Rel-16 | Revision of C1-200007 |
|  |  | [C1-200425](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200425.zip) | Correct reference | BlackBerry UK Ltd. | CR 6410 24.229 Rel-16 |  |
|  |  | [C1-200426](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200426.zip) | Enabling mobility with (emergency) sessions/connections between the (trusted) non-3GPP access network connected to the 5GCN and the E-UTRAN | BlackBerry UK Ltd. | CR 1910 24.501 Rel-16 |  |
|  |  | [C1-200454](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200454.zip) | ACS information via DHCP | ZTE / Joy | CR 1919 24.501 Rel-16 |  |
|  |  | [C1-200455](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200455.zip) | LADN service does not apply for RG connected to 5GC via wireline access | ZTE / Joy | CR 0070 24.526 Rel-16 |  |
|  |  | [C1-200518](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200518.zip) | Work plan for the CT1 part of 5WWC | Huawei, HiSilicon /Christian | discussion Rel-16 |  |
|  |  | [C1-200754](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200754.zip) | Registration of N5GC devices via wireline access | Nokia, Nokia Shanghai Bell,Charter Communications | CR 2020 24.501 Rel-16 | Conflict with C1-200278 in subclause 5.3.2 |
|  |  | [C1-200755](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200755.zip) | Support of authentication and registration of N5GC devices via wireline access | Nokia, Nokia Shanghai Bell,Charter Communications | CR 0116 24.502 Rel-16 |  |
|  |  | [C1-200756](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200756.zip) | Corrections on EUI-64 as PEI | Nokia, Nokia Shanghai Bell | CR 2021 24.501 Rel-16 |  |
|  |  | [C1-200757](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200757.zip) | Corrections on N5CW support | Nokia, Nokia Shanghai Bell | CR 2022 24.501 Rel-16 |  |
|  |  | C1-200758 | Supporting IPTV NAS impacts | Nokia, Nokia Shanghai Bell | CR 2023 24.501 Rel-16 | WithdrawnLATE |
|  |  | C1-200759 | Supporting IPTV via wireline access | Nokia, Nokia Shanghai Bell | CR 0117 24.502 Rel-16 | WithdrawnLATE |
|  |  | [C1-200761](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200761.zip) | SUPI and SUCI for legacy wireline access | Nokia, Nokia Shanghai Bell | CR 0118 24.502 Rel-16 |  |
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|  | PARLOS |  | Lena – Breakout |  |  | CT aspects of System enhancements for Provision of Access to Restricted Local Operator Services by Unauthenticated UEs |
|  |  | [C1-200480](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200480.zip) | Manual network selection procedure for access to RLOS | Nokia, Nokia Shanghai Bell /Jennifer | CR 0496 23.122 Rel-16 |  |
|  |  | [C1-200748](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200748.zip) | Detach before RLOS and Emergency Attach | MediaTek / Marko | CR 3338 24.301 Rel-16 | Ricky, Thursday, 13:011) TEI16 needs to be added as WIC on the coversheet as the “may detach locally and initiate attach for emergency bearer services” is not a change related to RLOS2) OK to add the clarification, but surely it is obvious that the UE will perform a local detach, as it is unable to perform the detach procedure by explicit signalling since the UE in these states is unable to perform the detach procedure (as stated in the cover sheet)Marko, Friday, 8:22The local detach is indeed obvious for emergency attach (it’s well-known), but for RLOS the UE behavior better to be written, and then to express that the same behavior is need in both, texts are aligned.I’m fine to indicate also TEI16 in the cover page. |
|  |  | C1-200763 | De-registration before initial registration for RLOS and Emergency | MediaTek / Marko | CR 2025 24.501 Rel-16 | Withdrawn |
|  |  | [C1-200793](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200793.zip) | Factoring in T3346 during access to RLOS | Samsung R&D Institute India | CR 3327 24.301 Rel-16 | Revision of C1-200322 |
|  |  | [C1-200814](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200814.zip) | Support of restriction on access to RLOS | Nokia, Nokia Shanghai Bell /Jennifer | CR 3333 24.301 Rel-16 | Revision of C1-200476Lena, Thursday, 9:06Editorial comments:* the MCC of the serving PLMN network name” should be “the MCC of the serving PLMN”
* “For UE with USIM” should be “if the UE has a valid USIM”

Ricky, Thursday, 12:48“the UE shall verify that the MCC of the serving PLMN network name is present in the list of RLOS allowed MCCs configured in the UE” should be “the UE shall verify that the MCC of the serving PLMN network name is present in the list of RLOS allowed MCCs configured in the ME” given that the white list is maintained on the ME according to the SA3 requirement.Ivo, Thursday, 14:54In "the MCC of the serving PLMN network name", what is "serving PLMN network name"? Is it the same as "the MCC of the PLMN ID of the serving PLMN"? If so, then I prefer the updated term.Jennifer, Monday, 5:06I am fine with Lena and Ivo’s suggested rewording and will incorporate them in the revision.About Rickys’ suggested rewording, I believe UE is more appropriate here. Relying on manufacturer to provision device for security control will not work well. RLOS services are normally country specific, for example, there are FCC regulations in the U.S. related to offering of such services, but not every country has regulations requiring such deployment. Some countries may not have regulatory requirements, but a network can still choose to offer RLOS services (albeit not mandatory). A device manufactured by Samsung could be used by users in US or France. The home operator needs to have the ultimate control in order for the service to work well.Jennifer, Monday, 7:01A revision was uploaded to the drafts folder. Updates:- changed "For UE with USIM” to “if the UE has a valid USIM"- changed "the MCC of the serving PLMN network name” should be “the MCC of the PLMN ID of the serving PLMN"Ivo, Monday, 13:34I am ok with the draft revision. Please add Ericsson as co-signer.Lena, Monday, 20:39I am fine with the draft revision.Jennifer, 5:54Thanks for the support. Ericsson is added as cosigner.  The revision to be uploaded (C1-200814) is in draft folder. |
|  |  | [C1-200815](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200815.zip) | Support of restriction on access to RLOS | Nokia, Nokia Shanghai Bell /Jennifer | CR 0495 23.122 Rel-16 | Revision of C1-200477Lena, Thursday, 9:07:the added text about requesting user’s consent is not needed. CT1 has agreed an AT command which allows to set/unset user consent (see TS 27.007 subclause 8.80), so user consent does not need to be requested every time a PLMN is selected.Ivo, Thursday, 14:59Issue with the use of “allowable” in "If registration cannot be achieved because no PLMNs are available and allowable, and if no PLMN offering access to RLOS has been found, or none of the PLMNs offering access to RLOS is allowable according to RLOS allowed MCC list configured in the USIM (see 3GPP TS 31.102 [40]) or in the ME (see 3GPP TS 24.368 [50])” .The term "allowable PLMN" is defined in 23.122 as below and has nothing to do with the RLOS allowed MCC list.Jennifer, Monday, 5:09To Ivo: Instead of using “allowable”, how about  changing to more explicit wording “is allowed to be accessed”, as in “none of the PLMNs offering access to RLOS is allowed to be accessed according to RLOS allowed MCC list”Jennifer, Monday, 5:11To Lena: I will remove the text about requesting user’s consent in the revision.Anikethan, Monday, 5:57About “either the UICC containing the USIM is not present on the MS, or the UICC containing the USIM is present on the MS and the MCC part of the IMSI in the USIM is present in the RLOS allowed MCC list configured in the USIM (see 3GPP TS 31.102 [40]) or in the ME (see 3GPP TS 24.368 [50]);”* there is no RLOS allowed MCC list in the USIM, it is present only in the ME.
* Also the intent of the sentence is unclear wrt “UICC containing USIM”

Same comments apply to other pieces of text added by the CR.We think the text could be:“there is no SIM in the MS or if the SIM is present in the MS and the MCC part of the IMSI in the SIM is present in the RLOS allowed MCC list configured in the ME (see 3GPP TS 24.368 [50]);”Jennifer, Monday, 7:01A revision is uploaded to the drafts folder. Updates:- removed text about requesting user's consent;- changed "allowable" to "is allowed to be accessed" to avoid mixed with existing terminology. Ivo, Monday, 13:37I am ok with the draft revision. Please add Ericsson as co-signer.Lena, Monday, 20:29I have the following further comments on the draft revision:* “the MCC part of the preferred PLMN” should be “the MCC part of the preferred PLMN ID”
* “the MCC part of the PLMN” should be “the MCC part of the PLMN ID”
* “according to RLOS allowed MCC list” should be “according to the RLOS allowed MCC list”

Jennifer, Tuesday, 5:54Thanks for the support. Ericsson is now added as cosigner.  The revision to be uploaded (C1-200815) is in draft folder.Anikethan, Wednesday, 11: 50This change of having the MCC list in the USIM is a new one and is not present anywhere else. Even 22.011 and 33.401 just mention ME. Could you please add in the cover page additional details that this requirement is being introduced in the USIM via the current CR? |
|  |  | [C1-200816](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200816.zip) | NAS configuration on access to RLOS | Nokia, Nokia Shanghai Bell /Jennifer | CR 0046 24.368 Rel-16 | Revision of C1-200478Lena, Thursday, 9:07:The DDF needs to be updated.Ricky, Thursday, 12:341) “5.10zg /<X>/RLOSPreferredPLMNList/<X>” should be “5.10zg  /<X>/RLOSAllowedMCCList/<X>”2) The SA3 requirement talks only about **preconfiguring** the white list either at the time of ME manufacturing or hardcoding with {310, 311, 312, 313, 314, 315, 316}. So is there a need for an MO parameter, if this is purely pre-configuration?Ivo, Thursday, 15:02- in 5.10zf last paragraph: it is not clear where is stage-1 or stage-2 requirement related to "the interior node <X> that holds the following MCC leaf values {310, 311, 312, 313, 314, 315, 316}. ". If there is such stage-1 or stage-2 requirement, then the requirement should be enforced in 23.122, without the need to configure the UE.- same comment applies to last paragraph of 5.10zh.Jennifer, Monday, 5:27To Ricky: I will fix the title for 5.10zg in the revision.Regarding the MO configuration, so far only in the US there are mandatory FCC requirements for accessing RLOS services, so these MCCs {310, 311, 312, 313, 314, 315, 316} must be allowed (in the allowed MCC list). For other countries, it would not be mandatory, but a network can still choose to offer RLOS services (therefore configuring more allowed MCCs in the Allowed MCC list). Jennifer, Monday 5:30To Ivo: These texts are not needed here and will be removed in the revision. To Lena: I will update the DDF in the revision.Jennifer, Monday, 7:01A revision is available in the drafts folder. Updates:- corrected title of subclause 5.10zg;- removed detailed MCC allowed list for the US;- added DDF.Ivo, Monday, 13:41I am ok with the draft revision. Please add Ericsson as co-signer.Lena, Monday, 20:37I have the following comments on the draft revision:* The text in subclause 5.10zg still talks about preferred PLMNs. “one or more RLOS preferred PLMNs” should be instead “one or more RLOS allowed MCCs”
* “MCC” already includes the work “Code”, so “the MCC code” is redundant. I suggest replacing it by “the MCC value”

Jennifer, Tuesday, 5:53Ericsson is now added as cosigner.  The revision to be uploaded (C1-200816) is in draft folder. |
|  |  | [C1-200817](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200817.zip) | Authentication and security handling for RLOS | Nokia, Nokia Shanghai Bell /Jennifer | CR 3334 24.301 Rel-16 | Revision of C1-200479Ivo, Thursday, 15:05In 5.4.3.3: the UE has to be attached for RLOS, in order to be able to establish an RLOS PDN connection. This is different from emergency PDN connection which can be established even when the UE is non-emergency non-RLOS registered. If change is needed, it would be better to add "or is attached for access to RLOS".Jennifer, Monday, 6:03I am fine to change wording in subclause 5.4.3.3 to “or is attached for access to RLOS”. I will incorporate the change in the revision.Jennifer, Monday, 6:58A revision is available in the drafts folder. Updates: changed wording in subclause 5.4.3.3 to “or is attached for access to RLOS”.Ivo, Monday, 13:48The draft revision is nearly OK.In 5.4.3.3, can you please consider adding "a UE that " as follows: "The UE shall accept a SECURITY MODE COMMAND message indicating the "null integrity protection algorithm" EIA0 as the selected NAS integrity algorithm only if the message is received for a UE that has a PDN connection for emergency bearer services established, or a UE that is attached for access to RLOS, or a UE that is establishing a PDN connection for emergency bearer services or a UE that is requesting attach for access to RLOS."Reason: all the other sub-conditions contain "a UE that".With such change, Ericsson would like to cosign.Jennifer, Tuesday, 5:51I have added the wording “a UE that” and also included Ericsson as cosigner.  The revision to be uploaded (C1-200817) is in draft folder.Ivo, Tuesday, 21:22Ok with the draft revision. |
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|  | 5G\_eLCS (CT4) |  | Peter – Main |  |  | CT aspects of Enhancement to the 5GC LoCation ServicesIs TS 24.571 sufficiently stable to be sent to CT#87-e for approval |
|  |  | [C1-200568](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200568.zip) | Adding UE initiated LCS service operations | CATT/Scott | pCR 24.571 Rel-16 |  |
|  |  | [C1-200569](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200569.zip) | LCS messages and coding | CATT/Scott | pCR 24.571 Rel-16 |  |
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|  | V2XAPP |  | Lena – Breakout |  |  | CT aspects of V2XAPPIs TS 24.486 sufficiently stable to be sent to CT#87-e for information and/or approval |
|  |  | [C1-200519](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200519.zip) | Work plan for the CT1 part of V2XAPP | Huawei, HiSilicon /Christian | discussion Rel-16 |  |
|  |  | [C1-200522](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200522.zip) | Latest reference version of draft TS 24.486 | Huawei, HiSilicon /Christian | draft TS 24.486 Rel-16 |  |
|  |  | [C1-200530](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200530.zip) | V2X service discovery procedure | Huawei, HiSilicon /Christian | pCR 24.486 Rel-16 |  |
|  |  | [C1-200532](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200532.zip) | V2X sevice continuity procedure | Huawei, HiSilicon /Christian | pCR 24.486 Rel-16 |  |
|  |  | [C1-200533](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200533.zip) | General on provisioning of parameters | Huawei, HiSilicon /Christian | pCR 24.486 Rel-16 |  |
|  |  | C1-200534 | V2X USD provisioning | Huawei, HiSilicon /Christian | pCR 24.486 Rel-16 | Withdrawn |
|  |  | C1-200535 | PC5 parameters provisioning | Huawei, HiSilicon /Christian | pCR 24.486 Rel-16 | Withdrawn |
|  |  | [C1-200622](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200622.zip) | Structure and data semantics for V2X service discovery procedure | Huawei, HiSilicon /Christian | pCR 24.486 Rel-16 |  |
|  |  | [C1-200623](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200623.zip) | Structure and data semantics for V2X UE registration procedure | Huawei, HiSilicon /Christian | pCR 24.486 Rel-16 |  |
|  |  | [C1-200624](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200624.zip) | Structure and data semantics for V2X UE de-registration procedure | Huawei, HiSilicon /Christian | pCR 24.486 Rel-16 |  |
|  |  | [C1-200903](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200903.zip) | V2X message delivery procedure | Huawei, HiSilicon /Christian | pCR 24.486 Rel-16 | Revision of C1-200529Mikael, Tuesday, 11:50The contents of the procedures seem to be for Location tracking and not for Message delivery procedure.Christian, Tuesday, 19:03I have revised C1-200529 to include the correct p-CR, see revision in the drafts folder.Mikael, Wednesday, 13:32Draft revision looks good except ”targer” should be “target” in 6.5.2.4Christian, Wednesday, 16:42I have corrected the typo in an updated draft revision. |
|  |  | [C1-200905](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200905.zip) | Structure and data semantics for application level location tracking procedure | Huawei, HiSilicon /Christian | pCR 24.486 Rel-16 | Revision of C1-200619Mikael, Tuesday, 11:51The zip file seems to include the wrong TDoc, C1-200621 and not C1-200619.Christian, Tuesday, 19:03I have revised C1-200619 to include the correct p-CR, see revision in the drafts folder.Mikael, Wednesday, 11:16I uploaded draft-revision-of-C1-200619-v1+MW.doc to the drafts folder marking a couple of things unclear to me:1. Don’t we need to add further description of <geographical-identifier>?
2. Mismatch of <location-tracking-info> vs <location-tracking>?

Christian, Wednesday, 12:36An updated draft revision taking into account Mikael’s further comments is available. |
|  |  | [C1-200906](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200906.zip) | Structure and data semantics for V2X message delivery procedure | Huawei, HiSilicon /Christian | pCR 24.486 Rel-16 | Revision of C1-200621Mikael, Tuesday, 11:54The contents seem to cover Location tracking procedure rather than Message delivery procedure.Wording: “elemen” should be “element”Christian, Tuesday, 19:03I have revised C1-200621 to include the correct p-CR, i.e., which provides the structure and semantics of the V2X message delivery procedure. See revision in the drafts folder.Mikael, Wednesday, 11:10I made some corrections in draft-revision-of-C1-200621-v1+MW.doc in the drafts folder.Main question is on:a)   a <polygon-area> element shall include a <trigger-id> element; andb)   an <ellipsoid-arc-area> element shall include a <trigger-id> element.I don´t quite understand this <trigger-id> and how it matches the information in the semantics clause:“an optional element specifying the area as a polygon specified in subclause…”Christian, Wednesday, 12:36An updated draft revision taking into account Mikael’s further comments is available. |
|  |  | [C1-200944](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200944.zip) | Application level location tracking procedure | Huawei, HiSilicon /Christian | pCR 24.486 Rel-16 | Revision of C1-200528Mikael, Wednesday, 13:34In 6.4.1:“shall include a <geographical-identifier> element with a <geo-id> child element set to the identity of the geographical location to be subscribed.”“location” (or possibly “area”?) needs to be added after “geographical”. 2 occurrences.Christian, Wednesday, 16:42I have produced a new version of the revision using “geographical area” as in other parts of the p-CR the same words are used, e.g., “shall store the received geographical area information”: |
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|  | eV2XARC |  | Lena – Breakout |  |  | CT aspects of eV2XARCIs TS 24.587 sufficiently stable to be sent to CT#87-e for approval?Is TS 24.588 sufficiently stable to be sent to CT#87-e for approval? |
|  |  | C1-200321 | Precedence order between V2X configuration parameters | LG Electronics | pCR 24.587 Rel-16 | WithdrawnRevision of C1-198404 |
|  |  | [C1-200324](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200324.zip) | Direct link establishment procedure update based on SA3 LS | OPPO / Rae | pCR 24.587 Rel-16 | Merged into C1-200349 and its revisions.Yanchao, Thursday, 12:46In Table 7.3.2.1.1, the length of sequence number should be 1 octetIvo, Thursday, 15:07- "if the result of the above check is yes" -> "If the request is accepted"- it is not clear how the UE figures out whether "the security association with the initiating UE is successful". Maybe an editor's note is needed.Rae, Friday, 11:05I have taken Yanchao and Ivo’s comments in a draft revision available in the drafts folder.Christian, Friday,15:52We are supporters of the intent of the p-CR but we have got the following comments to the draft revision:1. I do wonder; how many similar editor’s on security we want to add into TS 24.587? There are already many and even with most of them being very similar in wording. At least; can you please use the same text as the previous one in the specification, i.e., “Editor’s note:        This section needs to be revisited after SA3 have determined the full set of security requirements for unicast link establishment.”;
2. your proposal of deletion of the bullet item c under 6.1.2.2.3 is not correct to me as it is not aligned with TS 23.387 clause 6.3.3.1. Hence, can you please reverse your deletion?; and
3. I hope that the highlighted colour you use on the p-CR will be removed in the actual final revision (to be uploaded to the inbox/3GPP portal). As rapporteur, I do not want to deal with colourful text when implementing p-CRs as I believe that it is already enough with the usual template style corruption and editorials.

With those changes, Huawei and HiSilicon would like to co-sign the revision of the p-CR.Ivo, Friday, 15:59About Christian’s comment 1) above, IMO, the new editor's note below is needed - the normative text refers to security association which does not exist.No strong view on Christian’s comments 2) and 3) above.Rae, Monday, 3:34To Christian:For (1): no strong view;For (2): I deleted the bullet c in 6.1.2.2.3 because now the IP address configuration IE is not included in DIRECT LINK ESTABLISHMENT REQUEST message and is going to add the description after SA3 determines which message is used.But if you cannot live with the deletion, how about change as the below in this meeting and I will update this bullet after SA3 requirements is stable:c)         if the IP address configuration IE is received ~~included in the DIRECT LINK ESTABLISHMENT REQUEST message~~, the target UE checks whether there is at least one common IP address configuration option supported by both the initiating UE and the target UE.For (3): I will, don’t worry.Christian, Tuesday, 21:07The latest draft version and unfortunately does not consider our comments. Our point is that TS 23.287 in the clause 6.3.3.1 indicates that still there is need to consider the IP address configuration. I fail to see why this stage 2 requirement is removed. With that change, Huawei and HiSilicon would like to co-sign the revision of the p-CR.Rae, Wednesday, 5:54Now C1-200324 is merged to the revision of C1-200349 and I checked that what Christian commented has been covered in C1-200349. |
|  |  | [C1-200325](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200325.zip) | Remove the FFS on non-IP | OPPO / Rae | pCR 24.587 Rel-16 |  |
|  |  | [C1-200327](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200327.zip) | Keep alive procedure | OPPO / Rae | pCR 24.587 Rel-16 | Merged into C1-200350 and its revisions.Lena, Friday, 7:53* This pCR overlaps with C1-200350. We suggest merging C1-200327 into C1-200350.
* Mention of radio link failure is out of scope of CT1 spec. It is sufficient to say that a trigger from the lower layers is received. Also we would prefer to keep these triggers UE implementation specific.
* Inconsistent use of T5yyy and T500y
* Title of figure in 6.1.2.X.2 is wrong
* Sending of the Maximum inactivity period info is missing. It is useful to determine how to set the inactivity timer at the peer UE and minimize colliding keep-alive procedures.
* Handling of a Keep-alive counter is missing. Such counter is useful to detect duplicate messages, it should be added to the procedure
* “requesting UE” should be “initiating UE”
* In 6.1.2.X.5.2, “the peer UE” should be “the target UE”

Rae, Friday, 10:07I am ok to merge C1-200327 into C1-200350. If people think Maximum inactivity period and Keep-alive counter are useful, I am also OK to have them. Still a question for the Maximum inactivity period, what’s the relation between this period T5zzz and the T5xxx on the target UE side?Christian, Friday, 16:23We are supporters of adding this in TS 24.587 as your proposals are related to LS in C1-200242 so we eventually would like to co-sign the related p-CR. Merging of the proposals is fine by us but I wonder which direction is the merging taking.In my analysis of the proposals in C1-200327 and C1-200350; C1-200350 (from Qualcomm) seems to be taken directly from the LTE ProSe keep-alive procedure, and therefore more complete whereas C1-200327 (from OPPO) is a lightweight version which seems simpler for implementations. In my view, we can make things a sort of better than in LTE ProSe. Can you please at least restrict the trigger of start or restart of the T5XXX within the V2X layer (to avoid cross-layer interaction)?Lena, Monday, 0:55To Christian: the SA2-agreed CR (S2-200972) does mention triggers from the lower layers several times. As a compromise, would it be acceptable to have the triggers from the lower layers optional?Lena, Monday, 1:33To Rae: the relationship between this period T5zzz and the T5xxx on the target UE sideis up to implementation but the target UE can use the Maximum inactivity period info to set T5xxx to a value slightly larger than T5zzzz, so as to minimize the number of keep-alive procedures initiated by the target UE. |
|  |  | [C1-200385](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200385.zip) | Adding abnormal case on the network side | Huawei, HiSilicon / Chen | pCR 24.587 Rel-16 | Ivo, Thursday, 15:12In case REJECT is not delivered, the PCF should wait for retransmission of REQUEST. If the procedure is aborted, the PCF will need to handle any retransmitted REQUEST again.Chen, Friday, 4:48The abnormal case is dealt with as in other 3GPP specifications, see for instance TS 24.334 clause 7.2.9.2, TS 24.501 clause 5.4.2.6 and TS 24.501 clause 5.4.2.7.On the other hand, there is a timer for UE for retransmission of REQUEST, but there is not a timer for PCF in case REJECT.Ivo, Tuesday, 22:07The cases quoted by Chen are different from the one discussed.However, after some further thinking, I withdraw my comment. |
|  |  | [C1-200387](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200387.zip) | Correction for the list of V2X service identifier to PDU session parameters mapping rules over V2X Uu | Huawei, HiSilicon / Chen | pCR 24.587 Rel-16 |  |
|  |  | [C1-200389](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200389.zip) | Correction for the list of V2X service identifier to V2X E-UTRA frequency mapping rules over V2X PC5 | Huawei, HiSilicon / Chen | pCR 24.587 Rel-16 | CRs C1-200391, C1-200389, C1-200388, C1-200386 influence coding in CR C1-200292 |
|  |  | [C1-200391](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200391.zip) | Resolution of the editor's note on validity timer | Huawei, HiSilicon / Chen | pCR 24.587 Rel-16 | C1-200391, C1-200389, C1-200388, C1-200386 influence coding in CR C1-200292Lena, Friday, 7:58This pCR seems to conflict with C1-200292 and C1-200293 which specify an expiration time (ie absolute UTC time) rather than a validity timer.Chen, Friday, 8:29The expiration time and the validity timer is the same thing. I’ve found that in stage 2 TS 23.287 uses validity timer, and the validity timer is first used in TS 24.587 and then the expiration time is added. Therefore, from my side, it should be aligned with stage 2 and early TS24.587. But it is OK to use “expiration time”. The word should be kept consistent.Christian, Friday, 15:18I kindly disagree. As per my comments to C1-200292 and others, in light of SA2 LS in C1-200231 and latest version of TS 23.387, CT1 need to be aligned with SA2 decisions and also keep consistency in our TS 24.587, and therefore we propose to replace the “expiration timer” wording by “validity timer” and remove the editor’s notes regarding this (see C1-200391). Hence, we would like that the specification uses a single wording and not two to refer to the very same thing, i.e., “validity timer”.Ivo, Friday, 16:30if "validity timer" is used in the V2X configuration, would the "validity timer" be an absolute UTC time as in 24.385 or a relative time?Lena, Friday, 19:39If the parameter is called “validity timer” then to be consistent it should be a relative time. Using a relative time over an absolute UTC time also has the advantage that you can set to the timer to a special value (0 or deactivated) so that it never expires (for operators who want the policy to be valid until it is updated).Ivo, Monday, 10:57if the validity time in the V2X configuration is a relative time, the UE would need to remember when the UE received the UE policy sections with the V2XP, right? The UE is not required to do so today. Also, operator might want to configure its UEs so that the V2X configuration for PC5 stops being valid at more-or-less the same absolute time (not exactly, but e.g. end in the same day). Then, PCF would need to calculate the relative time based on when the PCF provides the V2XP to the UE. It deserves proper thinking-through.I put an editor's note on this issue in C1-200292.Lena, Monday, 20:01I am fine with having an Editor’s note on the encoding of the validity time. |
|  |  | [C1-200520](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200520.zip) | Work plan for the CT1 part of eV2XARC | Huawei, HiSilicon /Christian | discussion Rel-16 |  |
|  |  | [C1-200521](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200521.zip) | Latest reference version of draft TS 24.587 | Huawei, HiSilicon /Christian | draft TS 24.587 Rel-16 |  |
|  |  | [C1-200525](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200525.zip) | Resolution of the editor's notes on precedence of V2X configuration parameters | Huawei, HiSilicon /Christian | pCR 24.587 Rel-16 | Lena, Friday, 8:19CT1’s question to SA2 was whether the UE could “mix and match“ configuration parameters received from different sources, or should only use parameters from one given source. SA2’s answer in C1-200240 is the latter, with the exception of the parameters received from a V2X application server over V1 which can be combined with parameters received from another source (the reason for this is that a V2X application server cannot send the authorization policy parameters over V1). However the modifications in the pCR do not make this fully clear. I suggest rewording the text in 5.2.2 to:The V2X configuration parameters can be:a)  pre-configured in the ME;b)  configured in the USIM;c)  provided as a V2XP using the UE policy delivery service as specified in annex D of 3GPP TS 24.501 [3]; ord)  provided by a V2X application server via V1 reference point; ore)  a combination of d) and either a), b), c) or d) The UE shall use the V2X configuration parameters in the following order of decreasing precedence:1. the V2X configuration parameters provided as a V2XP using the UE policy delivery service as specified in annex D of 3GPP TS 24.501 [3];
2. the V2X configuration parameters provided by a V2X application server via V1 reference point

c)  the V2X configuration parameters configured in the USIM; andd)  the V2X configuration parameters pre-configured in the ME.Christian, Tuesday, 20:29I have produced a draft revision which should take all of Lena’s comments into account.Lena, Wednesday, 5:27The draft revision addresses my comments. |
|  |  | [C1-200538](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200538.zip) | Introduction of “PC5 Unicast Link Identifier Update Procedure” | InterDigital Communications | pCR 24.587 Rel-16 | Yanchao, Thursday, 13:491. According to S2-2000953, if the target UE has the privacy configuration, it will update its identifier after receiving the link id update request message
2. In clause 6.1.2.4.3, bullet f), g) and h) are not the IEs included in the link update accept message. These are the UE’s behaviours. Same as the bullet e) and f) in subclause 6.1.2.4.4.
3. The format of figure 6.1.2.4.2 is not right.
4. The number of the timers are not defined yet.

Lena, Friday, 8:21* overlaps with C1-200439
* subclause 6.1.2.4 (and its subclauses) should be numbered 6.1.2.x instead
* issues with style of bulleted lists in several subclauses (bullets ending with “.” Instead of “;” or ending with nothing, missing “and/or”)
* New timer should be numbered T5xxx instead of T5002
* There seems to be an issue with the formatting of Figure 6.1.2.4.2
* In subclause 6.1.2.4.3, it is not explained how the target UE determines whether it can accept the request
* Definition of the new messages introduced by this procedure is missing

Christian, Friday, 16:34We support to add the PC5 Unicast link identifier update procedure so we eventually would like to co-sign the final p-CR.However, we agree that C1-200538 and C1-200439 overlap and they are in fact very similar so they should be merged but both p-CRs have a number of issues to be corrected (as already indicated by Ivo and Lena so no need to repeat any of them plus some editorials, e.g., unnecessary capitalizations, ..). My question is which one of the p-CRs is going for revision? I have a preference for vivo’s p-CR as the basis.Behrouz, Friday, 21:31I will touch base with vivo and ask for a possible merger of the two pCRs. Meanwhile, please see some answers/comments to Lena’s comments:* subclause 6.1.2.4 (and its subclauses) should be numbered 6.1.2.x instead -> BA: May I ask “why”? Subclause 6.1.2 is about Unicast mode communication over NR based PC5 and the other procedures (Link Establishment and Modification have already been presented in 6.1.2.2 and 6.1.2.3 respectively, so the next procedure should be 6.1.2.4]
* New timer should be numbered T5xxx instead of T5002 -> BA: Since T5000 & T5001 were already defined, I only stepped up the Timer number. Is there any specific reason behind your request?
* There seems to be an issue with the formatting of Figure 6.1.2.4.2-> BA: Yes, I know. I have an issue with Visio and have asked my colleagues for help!]
* In subclause 6.1.2.4.3, it is not explained how the target UE determines whether it can accept the request-> BA: Ok, I will modify that part to resemble the other cases]
* Definition of the new messages introduced by this procedure is missing-> BA: In fact, I was initially leaning toward defining the message. However, I noticed that the messages for the Modification procedure are also missing and decided, therefore, to wait…]

Behrouz, Monday, 6:49I have asked Yanchao about merging our pCRs. I do not have any strong preference on which one of the two that should act as a basis. However, it seems that our (Interdigital’s) pCR covers a bit more than vivo’s, but as I said, we can go either way. |
|  |  | [C1-200595](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200595.zip) | Triggering service request procedure for V2X communication over PC5 interface | LG Electronics / SangMin | CR 1968 24.501 Rel-16 |  |
|  |  | [C1-200596](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200596.zip) | Discussion on multiple V2X services during the direct link establishment procedure | LG Electronics / SangMin | discussion Rel-16 | Yanchao, Thursday, 13:42Vivo does not agree with Proposal 1 for the following reasons:1. We see no strong reason from the real V2X services that have to support multiple V2X service during the PC5 link establishment procedure.
2. The current link modification procedure can add new V2X service to the existing PC5 link.
3. Inclusion of multiple V2X service identifier to the direct link establishment request will introduce lots complexity in the PC5 link establishment procedure:
	1. If multiple V2X service are included in one link establishment request message, it needs to convey the relationship between V2X service and the PQFIs;
	2. The link establishment accept message has to be extended to include the V2X service ID that target UE accepts;
4. According to the descriptions in TS23.287, if the UE has the interest on the announcing V2X service, it responds with a accept message. (This mean only one V2X service). If multiple V2X service are include, there is no SA2 requirement that the target UE are interested on all the V2X service or some of the V2X servicess.
5. If multiple V2X service are included in a establishment request message, the UE has to ensure that all the V2X service ID are linked to the same UE application layer ID.

SangMin, Monday, 8:39I understand Yanchao’s observations / reasons for disagreeing the proposal 1. I have waited for other company’s view on this issue, but since not so much interests on this issue were identified…So I assume that 1. for a direct link establishment procedure, only one V2X service is added to the PC5 link.
2. After that, if more V2X services are to be added, direct link modification procedure can do so.

If CT1 has such an understanding on the scenario, we are fine to withdraw or postpone relevant documents (0597 is related to proposals 1,2 and 3).One additional question is that, is this principle also applied to the modification procedure, i.e. one direct link modification procedure only handles one V2X service including adding a new service and providing PC5 QoS flow descriptions for the V2X service?If so, then we also don’t need any further update to PC5 QoS flow description IE as suggested in C1-200598 (or other way), but if a modification procedure can update more than one V2X services, still mapping between PQF description and V2X service needs to be considered.Also if there are more companies interested in this issue, please provide your opinion. It would be appreciated.Rae, Monday, 9:04In my understanding, what LGE proposed is some optimization. As you said below, using a procedure for each V2X service at least can work.Adding more than one V2X service make things more complex since both UEs should consider more scenarios then can make a decision.Considering the late phase of this WI, my preference is to keep things simple.Lena, Monday, 20:25* Qualcomm’s view is that LGE’s proposal is aligned with the current SA2 requirements, so we support the proposal. Also note that it would be difficult to add this capability of supporting multiple V2X service identifiers in e.g. Rel-17 as the initiating UE would not know in advance if the target UE supports receiving multiple V2X service identifiers in the DIRECT LINK ESTABLISHMENT REQUEST message.
* Another comment is that the 1-1 mapping of V2X Service and PC5 QoS Flow (PFI) is only for non-IP based services (this is because for non-IP bases services, there is no port information to do the traffic differentiation).
 |
|  |  | [C1-200597](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200597.zip) | Multiple V2X service identifiers in DIRECT LINK ESTABLISHMENT REQUEST message | LG Electronics / SangMin | pCR 24.587 Rel-16 | Ivo, Thursday, 15:361) 6.1.2.2.2 "V2X service identifier(s)" -> "one or more V2X service identifier(s)"2) 6.1.2.2.3 "it is interested in the V2X service(s) identified by the V2X service identifiers IE" - can you please clarify whether the target UE has to be interested in \*all of them\* or \*at least one of them\*. If \*at least one of them\*, then DIRECT LINK ESTABLISHMENT ACCEPT should indicate which of the V2X service identifier(s) indicated in the DIRECT LINK ESTABLISHMENT REQUEST are interesting for the target UE.Chen, Monday, 3:55Conflicts with C1-200326 on the V2X service identifier IE.Ivo, Tuesday, 14:09Ericsson is ok with either C1-200326 or C1-200597.SangMin, Wednesday, 9:34Ivo’s comment 1) is valid, I’ll fix it.For comment 2) my understanding is the latter, “at least one of them”. If so, the V2X service identifiers IE should be added to the ACCEPT message as well. I’ll update accordingly.Note that CT1 has not reached a consensus on whether multiple V2X service ids are included in a single message or not. So if we get agreement on the way forward, I’ll revise this pCR and update for your comments, or withdraw it.Also Xiaoguang has notified the conflict with 0326, which we had discussed during the CC#2. As I said above, I’ll revise this pCR after we agree on the way forward. |
|  |  | [C1-200598](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200598.zip) | Association between V2X service id and PC5 QoS flow description | LG Electronics / SangMin | pCR 24.587 Rel-16 | Ivo, Thursday, 15:37V2X services can be added to and removed from the PC5 unicast link. It is not clear how to identify the V2X service in such case, given that the coding refers solely to DIRECT LINK ESTABLISHMENT REQUEST.Chen, Friday, 10:24* This pCR conflicts with C1-200326 which defines the V2X service identifier IE, especially the length;
* This pCR Alt b) conflicts with C1-200440 in operation code. C1-200440 would delete the link modification operation code and the operation code octet may be deleted.
* In alt b, there is a risk that 5 bits index is not enough for 4 octets V2X service identifier when a lot of V2X service identifiers are included.

SangMin, Tuesday, 8:57To Ivo: so according to your opinion, the other alternative (alt a) using full V2X service ID itself seems simpler and better solution. Anyway, the life of this pCR depends on the multiple V2X service ID issue, so I would rather wait for the conclusion of that discussion, and then I’ll revise the paper or postpone it accordingly. |
|  |  | [C1-200603](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200603.zip) | Latest reference version of draft TS 24.588 | LG Electronics / SangMin | draft TS 24.588 Rel-16 |  |
|  |  | [C1-200632](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200632.zip) | PC5 unicast link keep-alive procedure – additions to C1-200350 | Apple | pCR 24.587 Rel-16 | Merged into C1-200350 and its revisions. |
|  |  | [C1-200652](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200652.zip) | Clean-up for TS 24.588 | LG Electronics / SangMin | pCR 24.588 Rel-16 |  |
|  |  | [C1-200820](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200820.zip) | Decoding on V2X service ID and application ID | OPPO / Rae | pCR 24.587 Rel-16 | Revision of C1-200326Ivo, Thursday, 15:09- V2X service identifier is PSID or ITS-AID, and the coding should point to ISO TS 17419 ITS-AID AssignedNumbers : <http://standards.iso.org/iso/ts/17419/TS17419%20Assigned%20Numbers/TS17419_ITS-AID_AssignedNumbers.pdf> similarly as done in V2X in EPS.- V2X service identifier cannot be out-of-scope since it is used to distinguish different formattings of V2X messagesLena, Friday, 7:50* For the V2X service identifier, I would prefer to go with a fixed length of 4 octets since this field carries a PSID or ITS-AIDs of the V2X application
* All messages in which the V2X service identifier and/or an Application layer ID are included need to be updated to reflect the new formats of the IEs

Rae, Friday, 10:48I will take the comments on board, i.e change the format of V2X service identifier as the following to be TV with a length of 5 octets. I will also change the format of V2X service identifier IE in the DIRECT LINK ESTABLISHMENT REQUEST message from “LV”to “V”of the revision of C1-200324.Christian, Friday, 15:59We support the intent of the p-CR and Rae revises the CR as indicated via email, please add Huawei and HiSilicon as co-signers of the revision of the p-CR.Ivo, Friday, 16:01Proposed revision is ok for me and Ericsson would like to co-sign.However, please be aware that there is a conflicting CR in C1-200597. Either the revision of C1-200326 or the solution in C1-200597 would be OK with me.SangMin, Tuesday, 3:05We acknowledge that 0326 conflicts with 0597. In the discussion on the multiple V2X service identifiers issue in 0596, two companies support single V2X service per each request while one company support multiple V2X service per each request. (and it seems Ericsson is okay for both ways) We will follow the majority view, so please share your view on this to this thread or the thread on 0596.Yanchao, Tuesday, 4:49We prefer the solution in C1-200326 and it is aligned with what we have in our pCRs.Ivo, Tuesday, 14:09Ericsson is ok with either C1-200326 or C1-200597. |
|  |  | [C1-200824](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200824.zip) | PC5 unicast link release procedure | vivo | pCR 24.587 Rel-16 | Revision of C1-200437Ivo, Thursday, 15:15- unnecessary capitalization in “PC5 Signalling Protocol procedures"- in 6.1.2.X.3 + 6.1.2.X.4: why is the release of the PC5 unicast link after DIRECT LINK RELEASE ACCEPT optional?Lena, Friday, 7:59* In 6.1.2.X.2, “The initiating UE shall initiate the PC5 unicast link release procedure by generating” should be “In order to initiate the PC5 unicast link release procedure, the initiating UE shall create” to be aligned with existing procedures already in TS 24.587
* In 6.1.2.X.2, I don’t see a need to introduce a separate Release Reason IE. The PC5 signalling protocol cause value IE (introduced in C1-200390 and in C1-200349) can be used. So “with a Release Reason IE indicating one of the following cause values” should be “In this message, the UE shall include a PC5 signalling protocol cause value IE indicating one of the following cause values”
* In 6.1.2.X.2, “Direct communication with the target UE is no longer allowed” should be “Direct communication with the target UE no longer allowed
* In 6.1.2.X.2, “any more” should be “anymore”
* In 6.1.2.X.3, “for this link” should be “for this PC5 unicast link”
* In 6.1.2.X.4, “may release” should be “shall release”

Yanchao, Friday, 9:05We are ok with most of Lena’s comments. For the 2nd comment, we are ok to use the PC5 signalling protocol cause value IE to convey the release reason information. However I am not sure how to proceed with this comment. As you said, there are two papers that define the same IE (C1-200390 and in C1-200349), so I just define the same IE in the revision of C1-200437 and use three values of this IE for the release reason that C1-200437 needed?Lena, Saturday, 17:49Yes, my proposal would be that Yanchoa defines the same IE (as that defined in C1-200390 and C1-00349) in the revision of C1-200437 and uses three values of this IE (e.g. ‘xxxxxxxx’, ‘yyyyyyyy’ and ‘zzzzzzzz’) for the release reasons that C1-200437 needed. Since TS 24.587 is not yet under change control, the TS rapporteur would then have to add the new IE only once in the TS, and allocate values for the code points defined in this IE by C1-200437, C1-200390 and C1-200349 when implementing the pCRs. Is this ok with Christian?Christian, Sunday, 15:55Yes I am ok with Lena’s proposal.Yanchao, Monday, 9:02I am ok with Lena’s proposal. Since we are defining the same IE in our papers (C1-200390 & in C1-200349& C1-200437), I think we better align on the wording. I have some comments for the purpose of the PC5 signalling protocol cause value IE:“The purpose of the PC5 signaling protocol cause value information element is to indicate the error cause values used in the PC5 signalling protocol procedures.”Since this IE is used to convey the release reason of PC5 link:#x  Direct communication to target UE no longer needed;#y  Direct communication with the target UE no longer allowed; or#z  Direct connection is not available anymore.I think the use of “error” cause values is not proper, because now some values are not about errors. Inspired by the purpose of the 5GSM cause value “The purpose of the 5GSM cause information element is to indicate the reason why a 5GSM request is rejected.”, I propose to use this following wording:“The purpose of the PC5 signalling protocol cause value information element is to indicate the reason why a PC5 signalling protocol procedure is rejected.”Your feedback is appreciated.Chen, Monday, 9:32“The purpose of the PC5 signaling protocol cause value information element is to indicate the error cause values used in the PC5 signalling protocol procedures.”  is from ProSe PC5 standard TS 24.334 clause 12.5.1.7. And the release reason of C1-200437 is a new IE in TS 24.334 clause 12.5.1.8.The release procedure in C1-200437 is not a REJECT procedure. I therefore don’t think your proposal is appropriate.I’d prefer to add a new Release Reason IE as ProSe does for the release procedure in C1-200437Yanchao, Monday, 11:24I am ok with either new release reason IE or reuse of the PC5 signaling protocol cause value IE. Hope to hear your opinion on this, so I can go with what most people prefers.Note that the 5GSM cause value is also used in the PDU session release procedure.Chen, Monday, 14:56PC5 is for both ProSe and V2X, I therefore would prefer to be aligned with ProSe. But either is OK to me too.Lena, Monday, 20:01We have a preference for re-using the PC5 signalling protocol cause value, in the same way as the 5GSM cause value can be included in a PDU session release request (as pointed out by Yanchao). To resolve the wording issue pointed out by Chen, I suggest defining the IE as follows:“The purpose of the PC5 signaling protocol cause value information element is to indicate the ~~error~~ cause values used in the PC5 signalling protocol procedures.”  Chen, Tuesday, 2:09I am fine wih Lena’s suggestion.Yanchao, Tuesday, 12:14CR was revised to C1-200824Note that I have updated the wording to “The purpose of the PC5 signaling protocol cause value information element is to indicate the ~~error~~ cause value~~s~~ used in the PC5 signalling protocol procedures.”  Ivo, Tuesday, 14:37The draft of C1-200824 addresses my comment. Ericsson would like to cos-sign.Yanchao, Wednesday, 4:56An updated draft revision is available. Changes:* Added Ericsson as co-signer.

To Lena and Chen: note that there are use of the term “PC5-S cause” which need your opinion.Lena, Wednesday, 5:55Please note that in the latest draft revision of C1-200349, I am no longer defining the PC5 signaling protocol cause value IE, based on Ivo’s comments that he cannot accept message and IE definitions before SA3 has agreed contents into the V2X TS about the security procedures. So you will need to define the code point for “Protocol error, unspecified” in your pCR.Regarding the name of the IE , I have no strong view, I am ok with either “PC5 signalling protocol cause” or “PC5-S cause” (but whatever you choose will not impact C1-200349 and its revisions as explained above).Chen, Wednesday, 7:27For the name of the IE, I’d prefer “PC5 signalling”. There are a lot of “PC5 signalling” in TS 24.587 and there is no abbreviation for  “PC5 signalling” in the clause 3.2 Abbreviations.Ivo, Wednesday, 9:27"PC5 signaling cause" is OK with me, as long as it is used consistently everywhere.Yanchao, Wednesday, 12:10An updated draft revision is available. Changes”1. Add Ericsson as co-singer;
2. Use “PC5 signaling cause value”in the table and figure， based on Ivo’s 2nd comment;
3. Add "protocol error, unspecified"，based on Ivo’s 3rd comment;

Ivo, Wednesday, 14:54The updated draft revision is nearly ok: the references to the figure and table in 8.4.x are incorrect. |
|  |  | [C1-200825](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200825.zip) | Encoding of direct link release messages and parameters | vivo | pCR 24.587 Rel-16 | Revision of C1-200438Ivo, Thursday, 15:19- remove unncessary capitalization in "Sequence Number" + "Release Reason" + "Release Reason Content"- incorrect styles in 7.3.X.1, message type- in Table 7.3.X.1.1, length of Release Reason should be 1 octet- in Table 7.3.X.1.1  + Table 7.3.y.1, length of sequence number should be 1 octet- Table 8.4.x.1 is inconsistent on length of Release Reason value- Figure 8.4.x.1 is not aligned with Table 8.4.x.1 on fields in 2nd octetLena, Friday, 8:01* I don’t see a need to introduce a separate Release Reason IE. The PC5 signalling protocol cause value IE (introduced in C1-200390 and in C1-200349) can be used.
* The length of the Sequence number IE should be 1 octet

Yanchao, Tuesday, 12:14CR was revised to C1-200825Note that I have updated the wording to “The purpose of the PC5 signaling protocol cause value information element is to indicate the ~~error~~ cause value~~s~~ used in the PC5 signalling protocol procedures.”  Ivo, Tuesday, 14:37Comments on draft of C1-200825:- "PC5 signalling protocol cause" is rather long. Consider shortening to "PC5-S cause".- Figure 8.4.j.1 is not aligned with Table 8.4.j.1 on field in 2nd octet- Table 8.4.j.1 states: "Any other value received by the UE shall be treated as 0000 0011, "protocol error, unspecified".". However, Table 8.4.j.1 does not list 0000 0011, "protocol error, unspecified" in the list of possible values. I suggest this value is added to the list |
|  |  | [C1-200826](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200826.zip) | PC5 unicast link identifier update procedure | vivo | pCR 24.587 Rel-16 | Revision of C1-200439Ivo, Thursday, 15:22- 6.1.2.x.2 bullet a) is not an English sentence- unnecessary capitalization in "the Security Information" - in 6.1.2.x.3, 2nd paragraph should be normativeLena, Friday, 8:11* In subclause 6.1.2.x.3, it is not explained how the target UE determines whether it can accept the request
* The definition of the new messages introduced by this procedure is missing

Christian, Friday, 16:34We support to add the PC5 Unicast link identifier update procedure so we eventually would like to co-sign the final p-CR.However, we agree that C1-200538 and C1-200439 overlap and they are in fact very similar so they should be merged but both p-CRs have a number of issues to be corrected (as already indicated by Ivo and Lena so no need to repeat any of them plus some editorials, e.g., unnecessary capitalizations, ..). My question is which one of the p-CRs is going for revision? I have a preference for vivo’s p-CR as the basis.Yanchao, Monday, 10:20A draft revision is available in the drafts folder. Updates:* Some text is added to the beginning of 6.1.2.x.3 to address Lena’s comments.
* The draft revision merge the 6.1.2.x.4 and 6.1.2.x.7.2 from interdigital’s paper in C1-200538.
* There are some difference between C1-200538 and C1-200439, but we didn’t take it into the revision:
	+ According to the agreed paper S2-2000953, if the target UE has the privacy configuration, it will update its identifier after receiving the link id update request message, this is not captured in C1-200538
	+ In clause 6.1.2.4.3, bullet f), g) and h) are not the IEs included in the link update accept message. These are the UE’s behaviours. Same commets to the bullet e) and f) in subclause 6.1.2.4.4.
	+ C1-200538 has some requirement on cypher the new identifiers, such as ”The target UE shall cypher the new identifiers before transmitting the message” ,“The initiating UE shall cypher the new identifiers before transmitting the message. ”. We thought with the paper C1-200349 and its revision, which define the authentication and SMC procedure for PC5 link, all the PC5-signalling message sent with cipher and integrity protection after the establishment of security context for PC5 link. Not sure if SA3 has any specific cypher requirement for transmission of updated identifiers besides the cipher and integrity protection of PC5-S messages.

Ivo, Monday, 14:071) in creation of DIRECT LINK IDENTIFIER UPDATE ACCEPT in 6.1.2.x.3, would it be possible to use similar style as in creation of DIRECT LINK IDENTIFIER UPDATE REQUEST in 6.1.2.x.2? I.e.:---------------If the target UE has the privacy configuration as specified in clause 5.2.3 and decides to change its identifier, the target UE shall create the DIRECT LINK IDENTIFIER UPDATE ACCEPT message. In this message, the target UE:a)   shall include the target UE’s new layer 2 ID assigned by itself;b)   shall include the new security information;c)   may include the target UE’s new application layer ID received from upper layer; andd)   may include the new IP address/prefix if IP communication is used.---------------Reason: the structure above allows for "should" and "may", while the other structure does not.2) bullets b) and c) in 6.1.2.x.4 seem to provide conflicting information - only one of the bullets should remain.Upon receipt of the DIRECT LINK IDENTIFIER UPDATE ACCEPT message, the initiating UE shall stop timer Txxxx and respond with a DIRECT LINK IDENTIFIER UPDATE ACK message. In this message, the initiating UE:a)   shall include the target UE’s new layer 2 ID, if received;b)   shall include the target UE new Application Layer ID, if received;c)   may include the target UE’s new application layer ID, if received; andd)   may include the new IP address/prefix, if received.With the changes above, Ericsson would like to cosign.Yanchao, Wednesday, 4:34An updated draft revision is available. Changes:1. Take Ivo’s comments on board.
2. Add “ InterDigital Communications?, Huawei, HiSilicon, Ericsson” as co-source.

Yanchao, Wednesday, 12:43Behrouz, are you ok with the latest draft revision?Behrouz, Wednesday, 15:13I am checking with my colleagues who follow V2X closely. |
|  |  | [C1-200844](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200844.zip) | Security establishment for PC5 unicast link | Qualcomm Incorporated / Lena | pCR 24.587 Rel-16 | Revision of C1-200349Rae, Thursday, 10:24For the deletion of FFS on Non-IP, I think this part can be left to my C1-200325 since this CR covers security issues and has a lot of information already.For the security procedures, I cannot find SA3 V2X TS. I agree that the security procedures in principle may be the same with what defined in EPS. But is it better to wait for SA3 TS?Yanchao, Thursday, 13:091) The length of sequence number should be 1 octet.2) Which UE can trigger the PC5 unicast link authentication procedure: the initiating UE, the target, or both?3) Which UE can trigger the PC5 unicast link security mode control procedure: the initiating UE, the target, or both?Ivo, Thursday, 15:10It is too early to bring security in CT1 specs - no version of 33.536 exists yet and there are no security details available in 23.287 either.Lena, Friday, 1:16C1-200349 does not delete the Editor’s note on non-IP communication, so there is no conflict with C1-200325.Regarding the security procedures, Qualcomm is submitting pCRs to the V2X TS in SA3 and the contents of C1-200349 are based on those pCRs (SA3 meets from March 2nd to March 6). We can either agree C1-200349 and update TS 24.587 in April to align with any updates made by SA3 at their March meeting, or we can postpone C1-200349 to the April meeting if people want to wait until the security procedures are in the V2X TS.Lena, Friday, 1:34I have fixed the length of the sequence number in Revision\_of\_C1-200349\_v1 which was uploaded to the drafts folder.About Yanchao’s questions 2 & 3, the UE triggering the PC5 unicast link authentication procedure and the UE triggering the SMC is the target UE of the PC5 unicast link establishment procedureChristian, Friday, 16:24I have to agree with Lena that the proposals in C1-200349 are based on LSs in C1-200230, 231, 241, and possibly 253 so in my view as rapporteur I would like to have security aspects added to TS 24.587 for the PC5 unicast link establishment procedure and adding the (new) PC5 unicast link authentication procedure. Having said that I understand that some companies want to ask for having more time as the p-CR proposal is based on current situation which may change in the upcoming SA3 meeting (I guess from the raised comments that things could change?).In my personal view in light of the LSs and what SA3 have worked out, the new procedure is needed and should be added to TS 24.587. Furthermore, the Qualcomm proposal seems aligned with present situation. We could add editor’s notes to cover up for the case that SA3 decide to update or add some small details in the upcoming meeting.Chen, Saturday, 7:491. This p-CR adds a PC5 unicast link authentication procedure and a PC5 unicast link security mode control procedure in the PC5 unicast link establishment procedure, but only the security mode control procedure was updated in the link establishment procedure. Therefore, the authentication procedure should be updated in the link establishment procedure too. And I suggest a new/replaced figure of the all procedures to make it clear enough.
2. There’s no clarification about the relationship of T5000 and T5aaa and T5bbb. In my understanding, T5aaa and T5bbb is in the T5000, and all of them would not last too long, because vehicles moves fast which means the surroundings are changed fast and there’s a shortage of PC5 resources untill now. Therefore, I concern about the procedure when the T5aaa and T5bbb expires. If the retransmission occurrs, there would be a high risk that the total time is beyond T5000 that would cause conflicts between the establishment procedure and the sub procedure.
3. Lack of procedures of the link establishment procedure in the case of the authentication procedure not accepted by the target UE and the security mode control procedure not accepted by the target UE and their related abnormal cases.
4. In 6.1.2.x.5, the cause value #y should be “authentication failure” instead of “Unspecified error”.

Yanchao, Saturday, 11:19I have the following comments on the draft revision:1. In 6.1.2.2.3, the new added bullet a) has style issue.
2. In 6.1.2.y.2, the highlighted condition “if the initiating UE does not share a known KNRP with the target UE” in bullet b is confusing, does the condition mean “if the KNRP ID is not included in the DIRECT LINK ESTABLISHMENT REQUEST message”?
3. In 6.1.2.y.3,  there is a similar condition here, but the use of “target UE ”and “initiating UE” is on the contrary.

Rae, Monday, 9:171. C1-200324 is covered by C1-200349 so if the majority agrees C1-200349 as a way forward, C1-200324 can be merged to C1-200349.2. I also submitted a LS out for SA3 LS C1-200253. If QC’s pCR finally survive, maybe the LS out should also be sent by QC since the contact person in SA3 LS is QC?Ivo, Monday, 13:56I still prefer to wait for SA3 to have some agreed stage-2 text on security details, before progressing security details in stage-3.Lena, Tuesday, 5:21An updated draft revision is available in the drafts folder. Answers to Chen’s comments:1. -> I have added a reference to the authentication procedure in the link establishment procedure in v2 of the CR revision. Regarding a figure with all procedures, I don’t think this is needed in CT1 stage 3: for instance in TS 24.301 we do not have a figure showing e.g an attach procedure combined with an authentication procedure and a security mode control procedure. The figure showing how all procedures combine will be in the SA3 TS (TS 33.536)
2. -> Indeed T5000 should be set to a value larger than T5aaa and T5bbb. In v2 of the draft CR revision, I have added a note in the link establishment procedure stating “In order to ensure successful PC5 unicast link establishment procedure, T5000 should be set to a value larger than the sum of T5aaa and T5bbb”. Please let me know if this does not address your comment.
3. -> The subclause on the authentication procedure not accepted by the target UE already says “Upon receipt of the DIRECT LINK AUTHENTICATION REJECT message, the initiating UE shall stop timer T5aaa and abort the ongoing procedure that triggered the initiation of the PC5 unicast link authentication procedure.” Similarly the subclause on the security mode control procedure not accepted by the target UE says “Upon receipt of the DIRECT LINK SECURITY MODE REJECT message, the initiating UE shall stop timer T5bbb and abort the ongoing procedure that triggered the initiation of the PC5 unicast link security mode control procedure”. Similar statements are also in the abnormal case handling of each procedure. I have added statements about the behavior of the target UE sending the reject (which is the initiating UE of the PC5 unicast link establishment procedure) in v2 of the draft CR revision. If you think something is still missing, could you please specifically list the scenarios which are not covered?
4. -> Thanks for pointing this out, I have fixed this in v2 of the draft CR revision. I have also aligned the wording in the PC5 signalling protocol cause value IE definition as discussed on the other thread about C1-200347

Lena, Monday, 5:21Answers to Yanchao’s comments:1. -> thanks, I have fixed it in the updated draft revision2. -> It means “if KNRP ID is not included in the DIRECT LINK ESTABLISHMENT REQUEST message or the target UE does not have an existing KNRP for the KNRP ID included in DIRECT LINK ESTABLISHMENT REQUEST message”. I have updated the wording accordingly in the updated draft revision3. -> In this case it means “if the target UE did not include a KNRP ID in the DIRECT LINK ESTABLISHMENT REQUEST message. I have updated the wording accordingly in the updated draft revision.Lena, Tuesday, 5:48Answers to Ivo’s comments:In the updated draft revision, I have added the following Editor’s notes:* In the general subclause of the PC5 unicast link authentication procedure:

Editor’s note:      The PC5 unicast link authentication procedure will need to be updated once SA3 has finalized the requirements in TS 33.356.* In the general subclause of the PC5 unicast link security mode control procedure:

Editor’s note:      The PC5 unicast link security mode control procedure will need to be updated once SA3 has finalized the requirements in TS 33.356.Is the pCR acceptable to you with these Editor’s notes?Chen, Tuesday, 7:53About Lena’s answers:1. -> ok
2. -> partially OK. My additional point is the retransmission procedure when T5aaa and T5bbb expires will cause conflicts between the T5000 and the sum of T5aaa(s) and T5bbb(s) too. Based on TS 24.334 clause 10.4.5.6.1,there’s no retransmission procedure due to the short timers. Therefore, from my side, the retransmission procedure could be safely removed and just send the REJECT message
3. -> I suggest to merge the “DIRECT LINK AUTHENTICATION REJECT message” into the “DIRECT LINK ESTABLISHMENT REJECT message”, which means if the initiating UE (which is the target UE of the PC5 unicast link establishment procedure) rejects, the initiating UE just send the DIRECT LINK ESTABLISHMENT REJECT message with the cause value instead of DIRECT LINK AUTHENTICATION REJECT message so that the target UE (which is the initiating UE of the PC5 unicast link establishment procedure) will proceed the same procedure as PC5 unicast link establishment procedure describes. And that would deduce both the UE’s overhead.

Similar suggestion to the security mode control procedure and the related abnormal cases.  Based on the above suggestion and as shown in the last above reply of mine, we should use “if the PC5 unicast link security mode control procedure is triggered by a DIRECT LINK ESTABLISHMENT REQUEST message”,  …, because the authentication procedure and the security mode control procedure may be not only to the PC5 unicast link establishment procedure.1. -> ok.

Ivo, Tuesday, 21:29IMO, this is still not acceptable - we cannot jump into stage-3 details on security before SA3 specifies stage-2 security architecture. All the details on security need to be removed from the CR. I do agree that we need PC5 unicast link authentication procedure and PC5 unicast link security mode control procedure, but we can only give general overview for them, without  mentioning any security details. Also, we do not know what messages will be required by SA3.Lena, Wednesday, 5:08Feedback on Chen’s comments:Thanks for your further feedback and the additional info on the interaction between T5000 and T5aaa & T5bbb as well as the handling of the PC5 unicast link establishment procedure in case the authentication procedure is not accepted by the target UE or the security mode control procedure is not accepted by the target UE, it is very useful. I understand your points and I will take them into account when preparing a contribution to the April meeting, after SA3 has agreed the corresponding procedures.For this meeting, since Ivo has indicated during this morning’s CT1 conference call that he prefers to wait for SA3 to make agreements, I have revised the pCR to remove the details about the PC5 unicast authentication procedure and the PC5 unicast link security mode control procedure, as well as remove the definition of the associated messages. See draft revision in the drafts folder.Lena, Wednesday, 5:08Feedback on Ivo’s comments:In the interest of progress, I have revised the pCR to remove the details about the PC5 unicast authentication procedure and the PC5 unicast link security mode control procedure, as well as remove the definition of the associated messages. The updated draft revision is available in the drafts folder.Ivo, Wednesday, 14:40The updated draft revision goes in the right direction. Comments:1) in 6.1.2.x.1- the text refers to new KNRP  which is a security detailed to be decided by SA3. - shouldn't the PC5 unicast link authentication procedure primarily ensure mutual authentication of the UEs establishing the PC5 unicast link? 2) in 6.1.2.y.1- the text refers to "integrity protect and cipher" while SA3 LS C1-198441 referred solely to "protection". - the text expects protection of user plane data, which was not mentioned in SA3 LS C1-198441.I have provided a draft revision with proposal on how to address these comments. If the draft revision is acceptable, Ericsson would like to cosign. |
|  |  | [C1-200845](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200845.zip) | PC5 unicast link keep-alive procedure | Qualcomm Incorporated / Lena | pCR 24.587 Rel-16 | Revision of C1-200350Yanchao, Thursday, 13:001) The length of sequence number IE should be 1 octet.2) Can the keep-alive procedure be triggered by upper layers?3) The stop of T5xxx in Figure 6.1.2.x.2 should be removed because the procedure can also be triggered when T5xxx expiresLena, Friday, 1:28I have fixed the sequence number length and also removed the start of timer T5xxx from the figure in Revision\_of\_C1-200350\_v1 which has been uploaded to the drafts folder.For now I have not added any trigger from the upper layer because it is not mentioned in the SA2-agreed CR. Is there any stage 2 requirement for a trigger from upper layers?Rae, Friday, 6:13For the trigger of keepalive message, SA2 left this to CT1, described in the agreed S2-2000972. W.r.t. trigger from upper layer, this trigger is already included in the EPS ProSe. And I think it is reasonable to let upper layer to check whether link is alive if not receiving the report for a period.Since I also submit C1-200327 for keepalive procedure, maybe we can merge.Krisztian, Friday, 8:16We submitted C1-200632 with the aim to merge into the revision of C1-200350.Christian, Friday, 16:23We are supporters of adding this in TS 24.587 as your proposals are related to LS in C1-200242 so we eventually would like to co-sign the related p-CR. Merging of the proposals is fine by us but I wonder which direction is the merging taking.In my analysis of the proposals in C1-200327 and C1-200350; C1-200350 (from Qualcomm) seems to be taken directly from the LTE ProSe keep-alive procedure, and therefore more complete whereas C1-200327 (from OPPO) is a lightweight version which seems simpler for implementations. In my view, we can make things a sort of better than in LTE ProSe. Can you please at least restrict the trigger of start or restart of the T5XXX within the V2X layer (to avoid cross-layer interaction)?Lena, Monday, 0:55To Christian: the SA2-agreed CR (S2-200972) does mention triggers from the lower layers several times. As a compromise, would it be acceptable to have the triggers from the lower layers optional?Lena, Monday, 1:33To Rae: the relationship between this period T5zzz and the T5xxx on the target UE sideis up to implementation but the target UE can use the Maximum inactivity period info to set T5xxx to a value slightly larger than T5zzzz, so as to minimize the number of keep-alive procedures initiated by the target UE.Lena, Monday, 22:52A draft merge of C1-200350, C1-200362 and C1-200327, co-signed by OPPO, is available in the drafts folder.Lena, Tuesday, 6:13An updated draft merge is available in the draft folder. Changes include:* Confirming Apple as co-signer
* Updating the stop condition for timer T5yyy to “Upon receiving a PC5 signalling message or PC5 user plane data”

Christian, Tuesday, 20:52Thanks for considering our comments which are covered in the latest version. We would like to co-sign the p-CR.Lena, Wednesday, 2:49An updated revision is available in the drafts folder. Changes:* Adding Huawei, HiSilicon as co-signers
* Adding the stopping of T5xxx in Figure 6.1.2.x.2 (since the initiating UE stops T5xxx before sending the DIRECT LINK KEEPALIVE REQUEST message)
 |
|  |  | [C1-200874](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200874.zip) | Correction for the list of the V2X services authorized for PPPR over V2X PC5 in E-UTRA | Huawei, HiSilicon / Chen | pCR 24.587 Rel-16 | Revision of C1-200386CRs C1-200391, C1-200389, C1-200388, C1-200386 influence coding in CR C1-200292Ivo, Monday, 12:21We generally support the pCR. However, the pCR does not contain the entire subclause 5.2.3. Can you please update the pCR so that entire modified subclause is shown? With the change, Ericsson would like to cosign revision of C1-200386.Chen, Monday, 14:50A draft revision is available in the drafts folder. Changes:* Ericsson as cosigner added;
* Clause 5.2.3 complemented entirely with a minor change “**a**” to “**an**”;

Ivo, Tuesday, 14:21The draft revision is nearly ok: clause 5.2.3 complemented entirely with a minor change “a” to “an”" seems to be done in both C1-200386 and C1-200388. It should be in one pCR only.Chen, Tuesday, 14:41I kept the change in C1-200386 and removed it from C1-200388.Ivo, Tuesday, 21:38Draft revision looks ok. |
|  |  | [C1-200875](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200875.zip) | Correction for the list of V2X service identifier to Tx profiles mapping rules over V2X PC5 | Huawei, HiSilicon / Chen | pCR 24.587 Rel-16 | Revision of C1-200388CRs C1-200391, C1-200389, C1-200388, C1-200386 influence coding in CR C1-200292Ivo, Monday, 12:21We generally support the pCR. However, the pCR does not contain the entire subclause 5.2.3. Can you please update the pCR so that entire modified subclause is shown? With the change, Ericsson would like to cosign revision of C1-200388.Chen, Monday, 14:50A draft revision is available in the drafts folder. Changes:* Ericsson as cosigner added;
* Clause 5.2.3 complemented entirely with a minor change “**a**” to “**an**”;

Ivo, Tuesday, 14:21The draft revision is nearly ok: clause 5.2.3 complemented entirely with a minor change “a” to “an”" seems to be done in both C1-200386 and C1-200388. It should be in one pCR only.Chen, Tuesday, 14:41I kept the change in C1-200386 and removed it from C1-200388.Ivo, Tuesday, 21:38Draft revision looks ok. |
|  |  | [C1-200876](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200876.zip) | Resolution of the editor's note on details about PC5 unicast link establishment procedure not accepted by the target UE | Huawei, HiSilicon / Chen | pCR 24.587 Rel-16 | Revision of C1-200390Ivo, Thursday, 15:14Table 8.4.x.1 is not aligned with Figure 8.4.x.1 on fields in 2nd octet.Chen, Friday, 7:16The table and the figure will be aligned and made in the same width in the last revision.Lena, Friday, 7:56* This pCR conflicts with C1-200349 which also introduces the PC5 signalling protocol cause value IE
* An authentication failure would not be sent in the DIRECT LINK ESTABLISHMENT REJECT message, it would be sent in the DIRECT LINK AUTHENTICATION REJECT message (see C1-200349)
* “Link setup failure due to other errors” should be ”Protocol error, unspecified” to be consistent with the terminology in e.g. TS 24.501
* NOTE 1 in 6.1.2.2.5 should be just “NOTE” as there is only one note in this subclause
* Rather than just using 4 bits in the octet for the PC5 signalling protocol cause value, it is more easily extensible to use the full octet and to make unused values spare (as done for e.g. the 5GMM cause value IE in TS 24.501)

Chen, Friday, 9:54* Ok to merge definition of PC5 signalling protocol cause value IE with C1-200349
* Ok to update handing of authentication failure after C1-200349 is agreed
* Ok to change “Link setup failure due to other errors” to ”Protocol error, unspecified”
* Ok to change NOTE 1 in 6.1.2.2.5 to NOTE
* About the encoding of the PC5 signallign protocol cause value, the spare values are already in C1-200390

Lena, Monday, 1:35About the PC5 signalling protocol cause value, what I am proposing is to reuse the encoding of the 5GMM cause value IE, ie use the full octet, not just 4 bits out of it.Chen, Monday, 2:22To Lena: thanks for the clarification, I take it on board, but I will provide the revision including other comments after the IE-related p-CRs are agreed.Chen, Wednesday, 4:40A draft revision is available. Changes:* The value numbering changed to “aaa”, ”bbb”, ”ccc”, ”ddd”
* Security related cause value removed
* “Link setup failure due to other errors” changed to ”Protocol error, unspecified”
* “NOTE 1”  changed to “NOTE”
* "PC5 signalling protocol cause value contents" changed to "PC5 signalling cause value”
* “The purpose of the PC5 signaling protocol cause value information element is to indicate the ~~error~~ cause value~~s~~ used in the PC5 signalling protocol procedures”
* “Table 8.4.x.1: PC5 signaling protocol cause value information element” aligned (use the full octet)
* Wording: use ”signalling” and not ”signaling” (both in body text and figures) to align within TS and to other TSs (e.g. 24.501)

Ivo, Wednesday, 14:58"PC5 Signalling Protocol cause value" -> "PC5 signalling protocol cause value"Chen, Wednesday, 15:39An updated draft revision is available. Changes:* "PC5 Signalling Protocol cause value" -> "PC5 signalling protocol cause value"
* Editorial changes in the NOTE
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|  |  | [C1-200899](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200899.zip) | Data transmission over PC5 unicast link | Huawei, HiSilicon /Christian | pCR 24.587 Rel-16 | Revision of C1-200537Ivo, Thursday, 15:29- "The pair of layer-2 IDs shall be associated with a PC5 unicast link context." - which pair?- 6.1.2.X - why is providing source layer-2 ID and destination layer-2 ID to lower layers optional? Shouldn't it be conditional or mandatory?Christian, Wednesday, 12:07I have uploaded a draft revision taking into account Ivo’s comments. About his 2nd question, agreed CR in S2-2000975 (at SA2 #136AH) which has made it optional.Ivo, Wednesday, 15:16The draft revision looks ok. Ericsson would like to co-sign.Christian, Wednesday, 16:42I have updated the draft revision to add Ericsson. |
|  |  | [C1-200900](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200900.zip) | Operations for broadcast mode and groupcast mode communication over PC5 | Huawei, HiSilicon /Christian | pCR 24.587 Rel-16 | Revision of C1-200536Ivo, Thursday, 15:26- broken styles of headlines- wrong style of A) bullet list- "Then, there can be two conditions:" seems strange- "according to the mapping rules specified in subclause 5.2.3" - which mapping rules? There are several.- what is meant by “build a new context for the destination layer-2 ID"?- "set up a new PC5 QoS rule, the PC5 QoS rule contains:" and "a set of packet filters" - which packet filters?- 6.1.3.2.4 - the bullet list starting with 3) should start with 1)Christian, Wednesday, 11:50A draft revision taking into account Ivo’s comments is available. About his questions:* what is meant by "build a new context for the destination layer-2 ID"? -> In the revision I used “to establish a new context”. Our point is that the service identifier only maps to one destination Layer-2 ID, but optionally V2X application requirements for the V2X services can be provided by the application layer. Note that different PC5 QoS Flow contexts might be established for the same destination Layer-2 ID and V2X application requirements can be provided or not by the application and these optional V2X application requirements might be different. Hence,  there can be a need to establish a context corresponding to the destination Layer-2 ID to manage **all** the PC5 QoS Flow contexts using the same destination Layer-2 ID but with different QoS parameters.
* set up a new PC5 QoS rule, the PC5 QoS rule contains:" and "a set of packet filters" - which packet filters? -> That comes into picture because of stage, see TS 23.287 subclause 5.4.1.1.4. What is your proposal to cover the above stage 2 requirements? We could add a reference to TS 23.287 or an editor’s note indicating that the details are for further study

Ivo, Wednesday, 15:13The draft revision goes into the right direction.I agree that there is a packet filter. The issue is that the text does not state \*how\* the packet filter of the new PC5 QoS rule is constructed - is the packet filter supposed to be generated by V2X layer NAS or provided by upper layers? And if generated by the V2X layer, which of the packet filter types will be used and with which values? If it is not known at the moment, I suggest to add an editor's note stating e.g. exact content of the set of packet filters is FFS.Minor issues: “as” in “proceed as” seems superfluous, and “to” is missing in from of “self-assign”.The rest is ok. Ericsson would like to co-sign.Christian, Wednesday, 16:42At present it is not clear what the exact content of the packet filter(s) will be. I would need to have some time to make a proposal on this issue so I have added an editor’s note. I have also corrected the unnecessary “proceed as” as I agree that it we do not need those words.I have produced a new revision to reflect all the above and added Ericsson. |
|  |  | [C1-200907](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200907.zip) | Updates to the link modification procedure | vivo | pCR 24.587 Rel-16 | Revision of C1-200827-------------------------------Revision of C1-200440Lena, Friday, 8:16It seems more robust to keep the link modification operation code. For 5G NAS, we do include the e.g. both the QoS rule identifier, and the rule operation code. This helps with error handling, for instance if one side asks the other side to delete a non-existing QoS rule.Chen, Friday, 10:05* In the last 3rd and 4th paragraph of Reason for change, “POFI” should be “PQFI”;
* The case "remove existing PC5 QoS flow(s) in the existing PC5 unicast link" should be added in the DIRECT LINK MODIFICATION ACCEPT message;
* In case of "remove an existing V2X service in the PC5 unicast link", the information should be added in the DIRECT LINK MODIFICATION ACCEPT message;

Yanchao, Saturday, 4:22I will take the Chen’s first comment on board.For the 2nd and 3rd comments, if I understand correctly, Chen wants me to add the removed V2X service ID or the removed PQFI to the DIRECT LINK MODIFICATION ACCEPT message. I think this is not needed, the DIRECT LINK MODIFICATION ACCEPT message itself could be the ACK for the removal of V2X service or PQF. That is the same as what we have done for the PDU session modification procedure in TS 24.501, wherein the network could remove some QoS flow by  the authorized QoS rules IE of the PDU SESSION MODIFICATION COMMAND message, and The UE respond with PDU SESSSION MODIFICATION COMPLETE message without indication of the removed QoS flows.Chen, Saturday, 5:46The pCR states:If the DIRECT LINK MODIFICATION REQUEST message is to add a new V2X service, add new PC5 QoS flow(s) or modify any existing PC5 QoS flow(s) in the PC5 unicast link, the target UE shall include in the DIRECT LINK MODIFICATION ACCEPT message:a)     the PQFI and the corresponding PC5 QoS parameters that the target UE accepts.What if the DIRECT LINK MODIFICATION REQUEST message is to remove existing PC5 QoS flow(s) in the existing PC5 unicast link?  Your reply means the target UE will include in the DIRECT LINK MODIFICATION ACCEPT message ACK? Then what if only part of PC5 QoS flow(s) removal are accepted?BTW, this specification has not specified the ACK in the DIRECT LINK MODIFICATION ACCEPT messageYanchao, Saturday, 6:48I didn’t intend to add an ACK in the DIRECT LINK MODIFICATION ACCEPT message. I am saying “the DIRECT LINK MODIFICATION ACCEPT message itself could be the ACK for the removal of V2X service or PQF”.Regarding the question on why “the PQFI and the corresponding PC5 QoS parameters that the target UE accepts” is only added for case of ” add a new V2X service, add new PC5 QoS flow(s) or modify any existing PC5 QoS flow(s)”,not for case of ” remove existing PC5 QoS flow(s) in the existing PC5 unicast link”, my understanding is :1. For the case of “add a new V2X service, add new PC5 QoS flow(s) or modify any existing PC5 QoS flow”: It is possible that the target UE didn’t accept some PCS5 QoS flow or QoS parameters that the initiating UE sent.
2. For the case of “remove existing PC5 QoS flow(s) in the existing PC5 unicast link”, when the imitating UE want to remove some V2X service or the PC5 QoS flow, the target UE  has no choice but to accept the release

Chen, Saturday, 8:17I suggest to add clarification for the confusion. I provide some exceptional use cases about “when the initiating UE wants to remove some V2X service or the PC5 QoS flow, the target UE  has no choice but to accept the release”, which is based on the role equivalence of the initiating UE and the target UE. But in the practical situation, there are many higher-class vehicles, e.g., police vehicles, emergency vehicles, the head vehicle of the vehicle fleet, and so on.Yanchao, Saturday, 8:40I don’t understand Chens’ exceptional case.   For example, for the normal 3GPP service, when the UE want to release a PDU session, the network can only accept the release, no matter the PDU session is for emergency or not.And there is no SA2 requirement that the target UE could reject the removal of a V2X service or a PQF.  I think what Chen proposed here is a new service requirement where the “higher-class vehicles” could reject the removal of a V2X service or a PQF, and which should be discussed in SA2 first. Chen, Saturday, 9:23The P-CR lacks the two cases, right? Yanchao’s point is that it’s common sense on the two cases in 3GPP, and there is no need to specify the two cases, right?Yanchao, Saturday, 9:41If Chen could show me that SA2 requirement that the target UE can reject the removal of a V2X service or PC5 QoS flow requested by the initiating UE, I will take his comment onboard.Chen, Saturday, 10:45My point is no matter what the SA2 requirement is, the procedures of the two cases should be specified, just because they are missing in the P-CR.Yanchao, Saturday, 11:29For the removal case, there is no need to add explicit ID in the DIRECT LINK MODIFICATION ACCEPT message because the target UE always accept the removal. That is the same as what we have done for the PDU session modification procedure. I can’t take Chen’s comments on board unless he provides a valid reason or solid SA2 requirements.Chen, Monday, 3:02I didn’t intend to add explicit ID. As you said, “remove an existing V2X service in the PC5 unicast link” is kept in the accept procedure in your P-CR, but “remove existing PC5 QoS flow(s) in the existing PC5 unicast link” is missing.Yanchao, Monday, 7:54I will add the description for “remove existing PC5 QoS flow(s) in the existing PC5 unicast link” in the subclause 6.1.2.3.3 and will share the draft later.Yanchao, Monday, 10:56A draft revision is now available in the drafts folder. The following changes are made:1. Undelete the link modification operation code;
2. add the description for “remove existing PC5 QoS flow(s) in the existing PC5 unicast link” in the subclause 6.1.2.3.3

Lena, Monday, 20:45I am fine with the draft revision.Chen, Tuesday, 2:27the link modification operation code was added 2 values. Could you please add them in subclause 8.4.5 of TS 24.587? Then I will be fine.Yanchao, Tuesday, 4:56I am confused by Chen’s comment. The link modification operation code IE is a new IE in the Direct link modification procedure, please see C1-200441 for Encoding of direct link modification messages and parameters. I am not sure how to add that in 8.4.5 for PC5 QoS flow descriptions.Chen, Tuesday, 8:06What I mean is that the operation code field is defined in 8.4.5 and needs to be updated.Yanchao, Tuesday, 9:02The Link modification operation code IE is a new IE, which is defined in C1-200441 now, not the “Operation code” field of the PC5 QoS flow description IE.Chen, Tuesday, 9:12Thanks Yanchao for the clarification, I am fine with the draft revision now.Yanchao, Tuesday, 12:18CR was revised to C1-200827Christian, Tuesday, 19:34Comments on the draft of C1-200827:We are fine with the pCR and we would also like to co-sign it so can you please add both Huawei and HiSilicon?Yanchao, Wednesday, 12:21An updated draft revision is available, with Huawei and HiSilicon added as co-signers.Christian, Wednesday, 12:36The updated draft revision is fine with me. |
|  |  | [C1-200909](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200909.zip) | Encoding of direct link modification messages and parameters | vivo | pCR 24.587 Rel-16 | Revision of C1-200828----------------------------------Revision of C1-200441Ivo, Thursday, 15:25V2X service identifier can be a type 3 IE, with a total length of 5 octets in TV formatting (rather than type 4 IE with total length of 6 octets in TLV formatting).Lena, Friday, 8:16It seems more robust to keep the link modification operation code. For 5G NAS, we do include the e.g. both the QoS rule identifier, and the rule operation code. This helps with error handling, for instance if one side asks the other side to delete a non-existing QoS rule.Chen, Monday, 3:20TS 24.587 clause 8.4.5 states: “The PC5 QoS flow descriptions IE is a type 6 information element with a minimum length of 6 octets. The maximum length for the information element is 65538 octets.” Why is the length of PC5 QoS flow descriptions in the P-CR 3-253?Yanchao, Monday, 7:55I will fix the length issue and share the draft later.Yanchao, Monday, 11:17A draft revision is available in the drafts folder. The following change are made1. Keep the link modification operation code
2. Correct the format of V2X service ID
3. Correct length of PC5 QoS flow descriptions

Ivo, Monday, 14:19Comment on the draft revision: 1) is it necessary to \*always\* include V2X service identifier in DIRECT LINK MODIFICATION REQUEST ? If not, the IE should have IEI and be in TV or TLV format.2) given the size of QoS flow descriptions IE, the format should be LV-E or TLV-E.3) QoS flow descriptions is mandatory IE in DIRECT LINK MODIFICATION REQUEST  but it is indicated in TLV format. Why? Either it is mandatory and then the format should be LV**-E** or it is optional and then the format should be TLV**-E** format and IEI should be indicated (at least as TBD).Yanchao, Tuesday, 4:45We are We are ok to take Ivo’s first two comments on board.For the 3rd comment,  QoS flow descriptions IE  is an optional IE in Direct link modification request message, for example this IE is not included for the removal of a V2X service.  Now its format is TLV in Table 7.3.X.1.1, I will correct it to TLV**-E** as you suggested.Yanchao, Tuesday, 12:20CR was revised to C1-200828Ivo, Tuesday, 14:41Comments on draft of C1-200828:Nearly ok: is it possible to indicate that IEIs need to be assigned to the optional IEs, by stating "TBD" in the IEI column. Ericsson woud like to co-sign.Christian, Tuesday, 19:33Comments on draft of C1-200828:we are fine with the pCR. We would also like to co-sign it so can you please add both Huawei and HiSilicon?Yanchao, Wednesday, 12:36A draft revision is available. Changes:* Ericsson, Huawei, HiSilicon added as co-signers
* add TBD to IEI per Ivo’s comments

Christian, Wednesday, 16:42The draft revision addresses my comments. |
|  |  | [C1-200933](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200933.zip) | UE policies for V2X communication over PC5 | Ericsson / Ivo | pCR 24.588 Rel-16 | Revision of C1-200292CRs C1-200391, C1-200389, C1-200388, C1-200386 influence coding in CR C1-200292Christian, Friday, 15:06We are supportive of completing the UE policies for V2X communication over PC5 but we have the following comments to improve the p-CR and allow interworking to EPS and compatibility:1. as shown by our p-CR in C1-200286, there is need to correct the Configuration parameters for V2X communication over PC5 so that it is made optional the list of the V2X services authorized for ProSe Per-Packet Reliability (PPPR). Note that this list is used for configuration parameters for a V2X communication over PC5 in E-UTRA. The need of making the list optional aligns with TS 24.386 and allows inteworking to EPS;
2. we further believe that there is need to make optional the list of list of V2X service identifier to Tx profiles mapping rules and the list of V2X service identifier to V2X E-UTRA frequency mapping rules over V2X PC5 for similar reasons as per (1) (see p-CRs in C1-200388 and 389) ; and
3. in light of SA2 LS in C1-200231 and latest version of TS 23.387, CT1 need to be aligned with SA2 decisions and also keep consistency in our TS 24.587, and therefore we propose to replace the “expiration timer” wording by “validity timer” and remove the editor’s notes regarding this (see C1-200391). Hence, we would like that the revision of C1-200292 also uses “validity timer” wording.

With those changes, Huawei and HiSilicon would like to co-sign the p-CR.Ivo, Monday, 10:49A draft revision is available in the drafts folder. Main changes:- additional cosigners added- Expiration field became validity field. Semantic of the validity field is FFS since it is not clear whether to use relative time or absolute UTC time.- V2X service identifier to Tx profiles mapping rules field is optional and its presence is controlled by the V2X service identifier to Tx profiles mapping rules indicator bit.- V2X service identifier to V2X E-UTRA frequency mapping rule field is optional and its presence is controlled by V2X service identifier to V2X E-UTRA frequency mapping rule indicator bit.- V2X services authorized for PPPR field is optional and its presence is controlled by V2X services authorized for PPPR indicator bit.- V2X service identifier to V2X NR frequency mapping rule field is optional and its presence is controlled by V2X service identifier to V2X NR frequency mapping rule indicator bit.- "figure 5.4.1.31" -> "figure 5.3.1.31"- bit numberring added to figures where missing- titles of figures and tables correctedIvo, Tuesday, 13:40An updated revision is available in the drafts folder. Main changes:- "validity" field renamed to "validity timer" field. Length of the validity timer is FFS (in addition to semantic of the validity field being FFS as indicated below). Same reason as below - it is not clear whether to use relative time or absolute UTC time.- order of fields in Figure 5.3.1.1 swapped, to have the same ordering as in C1-200295 - i.e. the validity timer is first. |
|  |  | [C1-200934](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200934.zip) | Updates of configuration parameters for V2X communication over Uu | Ericsson / Ivo | pCR 24.587 Rel-16 | Revision of C1-200293Rae, Thursday, 10:18There is no stage-2 requirement for the authorization policy for Uu interface. In EPS the authorization policy for Uu is related to MBMS, but for eV2XARC there is no MBMS so there is no need for special authorization policy for V2X Uu.Ivo, Tuesday, 13:40A draft revision is available. Main changes: - "authorized" -> "configured" |
|  |  | [C1-200935](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200935.zip) | V2X communication over Uu | Ericsson / Ivo | pCR 24.587 Rel-16 | Revision of C1-200294Christian, Friday, 15:08We support the intend of the p-CR as this allows interworking with EPS which we are also very interested in achieving but we would like to consider the following comments:1. the “V2X message family” encoding is not fully aligned with V2X in EPS, i.e., TS 24.386. The value 0 and other values not defined by C1-200293 are “spare” while they are “reserved” in TS 24.386. We would like to know the rationale behind this diversion and whether you have analyzed the impact for interworking to EPS. We initially want to keep aligned with TS 24.386;
2. there is some minor issue in the proposal for clause 6.2.7 item b), quote: "b) with one or more UDP for downlink transport;". Can you please replace it by "with one or more UDP ports for downlink transport";
3. the p-CR adds 5GSM layer requirements into TS 24.587 (i.e., for establishment of PDU session). This is not correct as establishment of the PDU session should be part of TS 24.501, i.e., 6.4.1.2 on “UE-requested PDU session establishment procedure initiation”. Your proposal unfortunately adds 5GSM-layer functionality into the V2X layer which is not acceptable as it in fact breaks the NAS architectural layering principles we have in CT1. We propose to have those parts of C1-200294 moved out and produce a CR to TS 24.501 instead; and
4. in light of SA2 LS in C1-200231 and latest version of TS 23.387, CT1 need to be aligned with SA2 decisions and also keep consistency in our TS 24.587, and therefore we propose to replace the “expiration timer” wording by “validity timer” and remove the editor’s notes regarding this (see C1-200391). Hence, we would like that the revision of C1-200294 also uses “validity timer” wording for the encoding rules of the IE.

With those changes, Huawei and HiSilicon would like to co-sign the p-CR.Ivo, Friday, 16:25Feedback on Christian’s comments:(1) -> Copy&paste error. It will be changed to "reserved".(2) -> It will be changed as proposed(3) -> I assume you are referring to subclause 6.2.2 bullet:2)   the UE shall establish a PDU session with the PDU session type, the SSC mode (if indicated in determined mapping rule), an S-NSSAI (if indicated in determined mapping rule) and a DNN (if indicated in determined mapping rule) indicated in the determined mapping rule, if such PDU session does not exist yet;If so, would you be OK with replacement of this bullet with an editor's note stating e.g.:Editor's note: documentation of establishment of a PDU session with the PDU session type, the SSC mode (if indicated in determined mapping rule), an S-NSSAI (if indicated in determined mapping rule) and a DNN (if indicated in determined mapping rule) indicated in the determined mapping rule, if such PDU session does not exist yet, is FFS.(4) -> It will be changed as proposed.Ivo, Monday, 11:41A draft revision is available in the drafts folder. Changes:- additional cosigners added- "authorized" -> "configured"- establishment of a PDU session for V2X communication over Uu is moved to editor's note- expiration time -> validity time- "with one or more UDP for downlink transport" -> "with one or more UDP ports for downlink transport"- unassigned values of V2X message family are reservedChristian, Tuesday, 21:19We are fine with the draft revision. |
|  |  | [C1-200936](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200936.zip) | UE policies for V2X communication over Uu | Ericsson / Ivo | pCR 24.588 Rel-16 | Revision of C1-200295Christian, Friday, 15:23We are supporters of completing the UE policies for V2X communication over Uu but we have the following comment to improve the p-CR:1. in light of SA2 LS in C1-200231 and latest version of TS 23.387, CT1 need to be aligned with SA2 decisions and also keep consistency in our TS 24.587, and therefore we propose to replace the “expiration timer” wording by “validity timer” and remove the editor’s notes regarding this (see C1-200391). Hence, we would like that the revision of C1-200295 also uses “validity timer” wording. If not, then we are now adding a new term “expiration”.

With that change, Huawei and HiSilicon would like to co-sign the p-CR.Ivo, Monday, 12:00A draft revision is available in the drafts folder. Main changes:- additional cosigners added- "expiration" -> "validity", with semantic being FFS, as it is not clear whether the validity time is relative or absolute UTC time- "authorized PLMN info" -> "PLMN info" and "authorized V2X service info" -> "Authorized V2X service info", as Rea commented that there is no authorization policy in V2X over Uu in 5GSIvo, Tuesday, 13:40An updated revision is available in the drafts folder. Main changes:- "validity" field renamed to "validity timer" field. Length of the validity timer is FFS, in addition to the semantic of the validity field being FFS. Same reason as below - it is not clear whether to use relative time or absolute UTC time. |
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|  | RACS (CT4 lead) |  | Peter – Main |  |  | CT aspects of optimizations on UE radio capability signaling |
|  |  | [C1-200340](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200340.zip) | RACS CT work plan | Qualcomm Incorporated / Lena | discussion Rel-16 |  |
|  |  | [C1-200341](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200341.zip) | Proposed way forward on remaining CT1 items for RACS | Qualcomm Incorporated / Lena | discussion Rel-16 |  |
|  |  | [C1-200342](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200342.zip) | UE radio capability ID assignment via GUTI reallocation procedure | Qualcomm Incorporated / Lena | CR 3328 24.301 Rel-16 |  |
|  |  | [C1-200343](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200343.zip) | Finalizing provisioning of manufacturer-assigned UE radio capability IDs at the UE | Qualcomm Incorporated / Lena | CR 0045 24.368 Rel-16 |  |
|  |  | [C1-200344](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200344.zip) | Removal of Editor’s note on applicability of RACS to SNPNs | Qualcomm Incorporated / Lena | CR 1886 24.501 Rel-16 |  |
|  |  | [C1-200345](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200345.zip) | Finalizing the encoding of the UE radio capability ID | Qualcomm Incorporated / Lena | CR 1887 24.501 Rel-16 | Delete the same Editor’s note as C1-200723, plus contains more changes |
|  |  | [C1-200346](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200346.zip) | UE radio capability ID deletion upon Version ID change | Qualcomm Incorporated / Lena | CR 1888 24.501 Rel-16 |  |
|  |  | [C1-200402](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200402.zip) | RACS not apply for non-3GPP access  | vivo / Yanchao | CR 1902 24.501 Rel-16 | Overlaps with C1-200725 which covers more changes. |
|  |  | [C1-200347](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200347.zip) | UE radio capability ID deletion upon Version ID change | Qualcomm Incorporated / Lena | CR 3329 24.301 Rel-16 |  |
|  |  | [C1-200463](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200463.zip) | Clarification of the cause of start of T3550 | vivo | CR 1922 24.501 Rel-16 |  |
|  |  | [C1-200720](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200720.zip) | UE behaviour upon receipt of a UE radio capability ID deletion indication | Nokia, Nokia Shanghai Bell | CR 2002 24.501 Rel-16 |  |
|  |  | [C1-200722](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200722.zip) | UE behaviour upon receipt of a UE radio capability ID deletion indication | Nokia, Nokia Shanghai Bell | CR 3336 24.301 Rel-16 |  |
|  |  | [C1-200723](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200723.zip) | Format of the UE radio capability ID | Nokia, Nokia Shanghai Bell | CR 2003 24.501 Rel-16 | CR deletes an Editor’s note which is also deleted by C1-200345 |
|  |  | [C1-200725](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200725.zip) | RACS not applicable for non-3GPP access | Nokia, Nokia Shanghai Bell | CR 2005 24.501 Rel-16 | Overlaps with C1-200402. Covers more required changes but missed the change to subclause 4.7.2 which is included in C1-200402. |
|  |  | [C1-200726](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200726.zip) | UE radio capability information storage not needed for RACS | Nokia, Nokia Shanghai Bell | CR 2006 24.501 Rel-16 |  |
|  |  | [C1-200727](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200727.zip) | UE radio capability information storage not needed for RACS | Nokia, Nokia Shanghai Bell | CR 3337 24.301 Rel-16 |  |
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|  | 5G\_SRVCC (CT4 lead) |  | Peter – Main |  |  | CT aspects of single radio voice continuity from 5GS to 3G |
|  |  | [C1-200427](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200427.zip) | Use registration message to inform the network when the SRVCC information changes | BlackBerry UK Ltd. | CR 1911 24.501 Rel-16 |  |
|  |  | [C1-200436](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200436.zip) | PDU session release at the UE side | ZTE, China Unicom, Ericsson | CR 1918 24.501 Rel-16 |  |
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|  | xBDT (CT3 lead) |  | Peter – Main |  |  | CT aspects on 5GS Transfer of Policies for Background Data100% |
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|  | IAB-CT (CT4 lead) |  | Peter – Main |  |  | CT aspects of support for integrated access and backhaul (IAB)CT1 no longer affected by this work item |
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|  | 5GS\_OTAF (CT4 lead) |  | Peter – Main |  |  | 5GS Enhanced support of OTA mechanism for UICC configuration parameter update |
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|  | 5G\_URLLC (CT4 lead) |  | Peter – Main |  |  | CT aspects of CT Aspects of 5G URLLC |
|  |  | [C1-200290](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200290.zip) | Always-On PDU session and URLLC | Ericsson / Ivo | CR 1878 24.501 Rel-16 | CRs in C1-200685, C1-200290, C1-200564 conflict |
|  |  | [C1-200685](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200685.zip) | Setting the Always-on PDU session indication IE in the PDU SESSION ESTABLISHMENT ACCEPT message | Nokia, Nokia Shanghai Bell | CR 1987 24.501 Rel-16 | CRs in C1-200685, C1-200290, C1-200564 conflict |
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|  | SEAL |  | Lena – Breakout |  |  | CT aspects of Service Enabler Architecture Layer for VerticalsIs TS 24.544 sufficiently stable to be sent to CT#87-e for approval? Is TS 24.545 sufficiently stable to be sent to CT#87-e for information and/or approval?Is TS 24.546 sufficiently stable to be sent to CT#87-e for approval? Is TS 24.547 sufficiently stable to be sent to CT#87-e for approval?Is TS 24.548 sufficiently stable to be sent to CT#87-e for information and/or approval? |
|  |  | [C1-200450](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200450.zip) | Annex to describes the functionality expected from the HTTP entities | Samsung, Intel / Sapan | pCR 24.547 Rel-16 |  |
|  |  | [C1-200523](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200523.zip) | Latest reference version of draft TS 24.545 | Huawei, HiSilicon /Christian | draft TS 24.545 Rel-16 | Sapan, Thursday, 13:55In clause 7.6, the Editor’s note needs to be removed as the MIME type is already defined.Christian, Tuesday, 20:04I agree with Sapans’ comment. I will remove the EN as rapporteur of TS 24.545 when producing the next version of the TS. |
|  |  | [C1-200524](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200524.zip) | Latest reference version of draft TS 24.548 | Huawei, HiSilicon /Christian | draft TS 24.548 Rel-16 | Sapan, Thursday, 13:52Editorial comments:1) In clause 7.5.2:<request> is an optional element used to include the unicast resource management requested information.should be changed toThe <request> element is an optional element used to include the unicast resource management requested information. 2) In clause 7.5.2:<response> is an optional element used to include the unicast resource management response information. should be changed toThe <response> element is an optional element used to include the unicast resource management response information. Christian, Tuesday, 20:05I agree with Sapan’s editorial comments. I will take those comments into account as rapporteur of TS 24.548 when producing the new version of the TS. |
|  |  | [C1-200526](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200526.zip) | Off-network procedures for SEAL location management | Huawei, HiSilicon /Christian | pCR 24.545 Rel-16 |  |
|  |  | [C1-200527](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200527.zip) | Off-network procedures for SEAL network resource management | Huawei, HiSilicon /Christian | pCR 24.548 Rel-16 |  |
|  |  | [C1-200552](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200552.zip) | Fetching location reporting configuration | Huawei, HiSilicon / Chen | pCR 24.545 Rel-16 | Merged into C1-200774 |
|  |  | [C1-200553](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200553.zip) | Structure and data semantics for fetching location reporting configuration | Huawei, HiSilicon / Chen | pCR 24.545 Rel-16 | Merged into C1-200775 |
|  |  | [C1-200555](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200555.zip) | Structure and data semantics for on-demand location reporting procedure | Huawei, HiSilicon / Chen | pCR 24.545 Rel-16 |  |
|  |  | [C1-200556](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200556.zip) | Location reporting event-triggered configuration cancel procedure | Huawei, HiSilicon / Chen | pCR 24.545 Rel-16 |  |
|  |  | [C1-200558](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200558.zip) | Structure and data semantics for location information subscription procedure | Huawei, HiSilicon / Chen | pCR 24.545 Rel-16 |  |
|  |  | [C1-200560](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200560.zip) | Structure and data semantics for Event-triggered location information notification procedure | Huawei, HiSilicon / Chen | pCR 24.545 Rel-16 |  |
|  |  | [C1-200607](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200607.zip) | Latest draft version of TS 24.547 ver 1.0.0 | Intel / Vivek | pCR 24.547 Rel-16 |  |
|  |  | [C1-200609](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200609.zip) | Updates to Client User Authentication Procedure | Intel / Vivek | pCR 24.547 Rel-16 | Chen, Monday, 5:12* “.” before the parameters should be “:”;
* I haven’t found these parameters in TS 33.434 v0.1.0 as the p-CR states “*The SIM-C shall include the following parameters as specified in 3GPP TS 33.434*”, could you clarify further?

Chen, Tuesday, 8:57According to the REFERENCES “OpenID Connect Core 1.0 incorporating errata set 1” and “draft-ietf-oauth-token-exchange”, the parameters added in both the client and the server procedure are not very matched with those specified in the references, e.g., my comments to C1-200613 beforeVivek, Tuesday, 12:42These parameters are not yet in TS 33.343 but are proposed to be added in TS 33.434 at the SA3 March meeting. There is still another Editor note left at the beginning of each of the procedures in CT1 spec in TS 24.547 as follows:       Editor’s Note: This procedure may be updated once a more updated reference to 3GPP TS 33.434 is availableWith the above Editor note in place once the SA3 spec is updated after their e-meeting, we can still take care of any updates to these procedures in CT1 specs based on outcome of SA3 e-meeting, if required in next cycle. |
|  |  | [C1-200611](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200611.zip) | Updates to Server User Authentication Procedure | Intel / Vivek | pCR 24.547 Rel-16 | Chen, Tuesday, 8:57* I haven’t found these parameters in TS 33.434 v0.1.0 as the p-CRs all state “*shall include the following parameters as specified in 3GPP TS 33.434*”, could you clarify further?
* according to the REFERENCES “OpenID Connect Core 1.0 incorporating errata set 1” and “draft-ietf-oauth-token-exchange”, the parameters added in both the client and the server procedure are not very matched with those specified in the references, e.g., my comments to C1-200613 before

Vivek, Tuesday, 12:42These parameters are not yet in TS 33.343 but are proposed to be added in TS 33.434 at the SA3 March meeting. There is still another Editor note left at the beginning of each of the procedures in CT1 spec in TS 24.547 as follows:       Editor’s Note: This procedure may be updated once a more updated reference to 3GPP TS 33.434 is availableWith the above Editor note in place once the SA3 spec is updated after their e-meeting, we can still take care of any updates to these procedures in CT1 specs based on outcome of SA3 e-meeting, if required in next cycle. |
|  |  | [C1-200612](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200612.zip) | Updates to Client Token Exchange Procedure | Intel / Vivek | pCR 24.547 Rel-16 | Chen, Tuesday, 8:57* I haven’t found these parameters in TS 33.434 v0.1.0 as the p-CRs all state “*shall include the following parameters as specified in 3GPP TS 33.434*”, could you clarify further?
* according to the REFERENCES “OpenID Connect Core 1.0 incorporating errata set 1” and “draft-ietf-oauth-token-exchange”, the parameters added in both the client and the server procedure are not very matched with those specified in the references, e.g., my comments to C1-200613 before

Vivek, Tuesday, 12:42These parameters are not yet in TS 33.343 but are proposed to be added in TS 33.434 at the SA3 March meeting. There is still another Editor note left at the beginning of each of the procedures in CT1 spec in TS 24.547 as follows:       Editor’s Note: This procedure may be updated once a more updated reference to 3GPP TS 33.434 is availableWith the above Editor note in place once the SA3 spec is updated after their e-meeting, we can still take care of any updates to these procedures in CT1 specs based on outcome of SA3 e-meeting, if required in next cycle. |
|  |  | [C1-200615](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200615.zip) | Resolution of editor's note under clause 6.2.2.2.1 | Huawei, HiSilicon /Christian | pCR 24.548 Rel-16 |  |
|  |  | [C1-200616](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200616.zip) | Resolution of editor's note under 6.2.2.2.3 | Huawei, HiSilicon /Christian | pCR 24.548 Rel-16 |  |
|  |  | [C1-200633](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200633.zip) | Adding access token in proper header of HTTP request from client | Samsung / Sapan | pCR 24.544 Rel-16 |  |
|  |  | [C1-200634](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200634.zip) | XML schema for SEAL group document and update coding | Samsung / Sapan | pCR 24.544 Rel-16 |  |
|  |  | [C1-200635](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200635.zip) | Updating client side procedures based on XML schema | Samsung / Sapan | pCR 24.544 Rel-16 |  |
|  |  | [C1-200636](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200636.zip) | Location based group creation procedure | Samsung / Sapan | pCR 24.544 Rel-16 | See also: C1-200449 |
|  |  | [C1-200637](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200637.zip) | Parameters for group event subscription and notification | Samsung / Sapan | pCR 24.544 Rel-16 |  |
|  |  | [C1-200640](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200640.zip) | Removal of clause for security parameter | Samsung / Sapan | pCR 24.544 Rel-16 |  |
|  |  | [C1-200644](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200644.zip) | Update references | Samsung / Sapan | pCR 24.544 Rel-16 |  |
|  |  | [C1-200645](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200645.zip) | XML schema for VAL user profile document and update of coding | Samsung / Sapan | pCR 24.546 Rel-16 |  |
|  |  | [C1-200646](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200646.zip) | XML schema and coding for VAL UE configuration document | Samsung / Sapan | pCR 24.546 Rel-16 |  |
|  |  | [C1-200649](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200649.zip) | Parameters for configuration event subscription and notification | Samsung / Sapan | pCR 24.546 Rel-16 |  |
|  |  | [C1-200650](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200650.zip) | Corrections in procedures | Samsung / Sapan | pCR 24.546 Rel-16 | Chen, Tuesday, 9:42My suggestion is not to replace the X-3GPP-Intended-Identity with an Authorization header field with the "Bearer" authentication scheme, because1. In my understanding, The VAL user's identity is NOT encoded within access-token (of type "Bearer") shared by Identity Management Server (SIL-S).
2. The VAL user ID is needed in the HTTP request message and the X-3GPP-Intended-Identity is simple and convenient enough to indicate the VAL user identity. Therefore, from my side, there’s no need to change this.

Sapan, Tuesday, 12:14We kindly disagree that we need to use X-3GPP-Intended-Identity header to share user's identity. - The user authentication and authorization framework is generally defined by SA3 (TS 33.434). We need to follow the process defined in SA3.- I may have used wrong word "encoded" - but as per SA3 group, access token conveys user's identity to server. The client shall send access-token to server so that server can validate access-token and determine user's identity from access-token.- See also SA3 contribution (S3-200166)- You may also want to check TS 33.180 - how the usage of access token is defined. - As per SA3 defined framework - we need to use HTTP Authorization header with access-token of type "Bearer".Chen, Tuesday, 13:13My confusion is:1. Why cannot the X-3GPP-Intended-Identity header be used?
2. User identity is not VAL user identity. What if a VAL user has many VAL service?(i.e. a user identity with multi VAL user identities);
3. Identity management is different from other SEAL management procedures on authentication, because TS23.434 states “The VAL user presents the user identity to the identity management server during a user authentication transaction, to provide the identity management client a means for VAL service authentication.”

Moreover, in your example in TS 24.484, I checked and found that though an Authorization header field with the "Bearer" authentication scheme is included, the VAL user identity is also included in the MIME body.On the other hand, there’s no clear word on these issues (besides as you said The user authentication and authorization framework is generally defined by SA3 (TS 33.434) in TS 33.434, and S3-200166 has not been agreed by now. We therefore suggest to keep the current situation (i.e. X-3GPP-Intended-Identity header used in all SEAL specifications by now) and postpone this related issues to wait for SA3 to have some agreed text on security details.Sapan, Tuesday, 13:39Feedback on Chen’s comments:1. -> I am not a security expert but as per my understanding we should not send VAL user's identity in plain form in X-3GPP-Intended-Identity header. And so, SIM-S includes VAL user's identity within access-token and make it opaque. When SEAL client sends access-token to SEAL server, the SEAL server can validate the access-token and determine the VAL user's identity2. -> I agree - User identity is not VAL user identity. The access-token contains VAL user's identity only3. -> See 2.The SA3 working group is responsible for security. Based on the situation we are in currently, best way forward is to proceed with proposed changes. If any corrections are needed then we can take it up based on SA3 contribution agreement. I hope we can proceed with the contribution.Chen, Tuesday, 15:29Thanks Sapan for the feedback, I am fine with the pCR now. |
|  |  | [C1-200660](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200660.zip) | Latest draft version of TS 24.544 ver 1.0.0 | Samsung / Sapan | pCR 24.544 Rel-16 |  |
|  |  | [C1-200662](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200662.zip) | Latest draft version of TS 24.546 ver 1.0.0 | Samsung / Sapan | pCR 24.546 Rel-16 |  |
|  |  | [C1-200676](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200676.zip) | Workplan for SEAL | Samsung / Sapan | Work Plan  |  |
|  |  | [C1-200808](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200808.zip) | Obtain list of users based on location | Samsung / Sapan | pCR 24.545 Rel-16 | Revision of C1-200449 Chen, Thursday, 14:191. In the client procedure, the identity of the querying client should be included;
2. In the server procedure, the SLM-S should first check if the client is authorized to query;
3. In order to query the list of users based on **given** geolocation area, the client shall send **an** HTTP POST request message

Sapan, Monday, 16:19I have taken all of Chen’s comment onboard. A draft revision is available in the drafts folder.Chen, Tuesday, 3:51In order to keep aligned with other procedures of Location mgmt., I changed your p-CR, so please check the updated draft and see whether you are fine with this, thanks. Sapan, Tuesday, 9:12I agreed to almost all of Chen’s changes except one change - where he proposed to change "SEAL server" to "SGM-S". I would prefer to use "SEAL server" only as its generic and in future other SEAL server can also user location services.Chen, Tuesday, 9:24I am fine with the updated draft revision. Huawei would like to co-sign.Sapan, Wednesday, 8:06I have added Huawei and HiSilicon as co-signers and uploaded C1-200808. |
|  |  | [C1-200818](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200818.zip) | Off Network Procedures for Identity Management | Intel / Vivek | pCR 24.547 Rel-16 | Revision of C1-200614Sapan, Monday, 6:07Can you please reword as “The off-network procedures are out of scope of the present document in this release of the specification.” ?This is to align all SEAL specification text regarding off-network procedures (as specified in C1-200526 from Huawei). I will be revising my contributions C1-200643 and C1-200651 – to align text to above wordings.Vivek, Monday, 5:34The missing words were added. C1-200614 revised to C1-200818 accordingly and uploaded.Sapan, Tuesday, 10:20I am fine with C1-200818. |
|  |  | [C1-200819](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200819.zip) | Updates to Server Token Exchange Procedure | Intel / Vivek | pCR 24.547 Rel-16 | Revision of C1-200613Chen, Monday, 10:24I’m confused on the parameters according to draft-ietf-oauth-token-exchange[8]. draft-ietf-oauth-token-exchange clause 2.2.1 states successful response includes: * access\_token(REQUIRED)
* issued\_token\_type(REQUIRED)
* token\_type(REQUIRED)
* expires\_in(RECOMMENDED)
* scope(OPTIONAL)
* refresh\_token(OPTIONAL)

but the p-CR propose 5 mandatory parameters:* access\_token;
* token\_type;
* expires\_in;
* id\_token; and
* refresh\_token.

Vivek, Monday, 5:30You are correct.I have removed these two parameters in revision.Chen, Tuesday, 8:57* I haven’t found these parameters in TS 33.434 v0.1.0 as the p-CRs all state “*shall include the following parameters as specified in 3GPP TS 33.434*”, could you clarify further?
* according to the REFERENCES “OpenID Connect Core 1.0 incorporating errata set 1” and “draft-ietf-oauth-token-exchange”, the parameters added in both the client and the server procedure are not very matched with those specified in the references, e.g., my comments to C1-200613 before

Vivek, Tuesday, 12:42These parameters are not yet in TS 33.343 but are proposed to be added in TS 33.434 at the SA3 March meeting. There is still another Editor note left at the beginning of each of the procedures in CT1 spec in TS 24.547 as follows:       Editor’s Note: This procedure may be updated once a more updated reference to 3GPP TS 33.434 is availableWith the above Editor note in place once the SA3 spec is updated after their e-meeting, we can still take care of any updates to these procedures in CT1 specs based on outcome of SA3 e-meeting, if required in next cycle. |
|  |  | [C1-200822](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200822.zip) | Removal of editor’s note for off-network | Samsung / Sapan | pCR 24.544 Rel-16 | Revision of C1-200643Sapan, Monday, 6:07I will revise this doc to align with the wording in C1-200526 from Huawei ie “The off-network procedures are out of scope of the present document in this release of the specification. |
|  |  | [C1-200823](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200823.zip) | Removal of editor’s note for off-network | Samsung / Sapan | pCR 24.546 Rel-16 | Revision of C1-200651Sapan, Monday, 6:07I will revise this doc to align with the wording in C1-200526 from Huawei ie “The off-network procedures are out of scope of the present document in this release of the specification. |
|  |  | [C1-200872](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200872.zip) | Procedure to notify configuration management event | Samsung / Sapan | pCR 24.546 Rel-16 | Revision of C1-200648Related to C1-200649Chen, Tuesday, 10:21I have some wording comments, see doc in draft folder.Sapan, Wednesday, 8:36I have accepted most of Chens’ comments and made minor corrections. The draft revision is available in the drafts folder.Chen, Wednesday, 9:02The draft revision looks ok.Sapan, Wednesday, 9:51Samsung and Huawei discussed about subscription and notification procedures which need to be defined in SEAL specifications. The summary of our discussion is as follows: 1)     SEAL specifications need to support both SIP based and HTTP based procedures for subscription and notification mechanism as described by stage 2.2)     The Rel-16 SEAL specifications are targeted to be used by V2XAPP only. The V2X service as of now do not support SIP based REGISTER. So HTTP based procedures are necessary.3)     For SIP based procedures – below issues need to be discussed and work upon:a.      Usage of identity to be used in SIP messagesb.      Description of new event packagec.      Usage of ICSI valuesd.      Usage of access-tokenC1-200648 will thus be revised to add editor’s note to describe SIP based procedures.Sapan, Wednesday, 11:37A draft revision is availableChen, Wednesday, 15:06I am fine with the draft revision. |
|  |  | [C1-200873](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200873.zip) | Management of configuration event subscription | Samsung / Sapan | pCR 24.546 Rel-16 | Revision of C1-200647Related to C1-200649Chen, Wednesday, 2:49Before the word “HTTP” there should be an “an”/”the”, not missing or “a”Sapan, Wednesday, 9:51Samsung and Huawei discussed about subscription and notification procedures which need to be defined in SEAL specifications. The summary of our discussion is as follows: 1)     SEAL specifications need to support both SIP based and HTTP based procedures for subscription and notification mechanism as described by stage 2.2)     The Rel-16 SEAL specifications are targeted to be used by V2XAPP only. The V2X service as of now do not support SIP based REGISTER. So HTTP based procedures are necessary.3)     For SIP based procedures – below issues need to be discussed and work upon:a.      Usage of identity to be used in SIP messagesb.      Description of new event packagec.      Usage of ICSI valuesd.      Usage of access-tokenC1-200647 will thus be revised to add editor’s note to describe SIP based proceduresSapan, Wednesday, 11:15I have taken into account Chen’s comment in the draft revision.Chen, Wednesday, 15:06I am fine with the draft revision. |
|  |  | [C1-200877](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200877.zip) | On-demand location reporting procedure | Huawei, HiSilicon / Chen | pCR 24.545 Rel-16 | Revision of C1-200554Sapan, Monday, 5:481) In clause 6.2.3.1 – change “subclause” to “clause”2) In clause 6.2.3.1 – clause number is changed now. 6.2.2.2 should be change to 6.2.2.2.2.3) In clause 6.2.3.1 – Need to remove step “ b) shall reset the minimum-report-interval timer if the location report is sent". This is because in step a), procedure of clause 6.2.2.2.2 will be followed which already takes care of resetting and restarting minimum-interval-report timer.Chen, Monday: 8:11All of Sapan’s comments are taken onboard in a revision uploaded to the drafts folder.Sapan, Monday, 16:47I am fine with the draft revision. |
|  |  | [C1-200878](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200878.zip) | Location information subscription procedure | Huawei, HiSilicon / Chen | pCR 24.545 Rel-16 | Revision of C1-200557Sapan, Wednesday, 9:51Samsung and Huawei discussed about subscription and notification procedures which need to be defined in SEAL specifications. The summary of our discussion is as follows: 1)     SEAL specifications need to support both SIP based and HTTP based procedures for subscription and notification mechanism as described by stage 2.2)     The Rel-16 SEAL specifications are targeted to be used by V2XAPP only. The V2X service as of now do not support SIP based REGISTER. So HTTP based procedures are necessary.3)     For SIP based procedures – below issues need to be discussed and work upon:a.      Usage of identity to be used in SIP messagesb.      Description of new event packagec.      Usage of ICSI valuesd.      Usage of access-tokenC1-200557 will thus be revised to add HTTP based procedure and notes for SIP based procedure.Chen, Wednesday, 9:58A draft revision is available. |
|  |  | [C1-200879](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200879.zip) | Event-triggered location information notification procedure | Huawei, HiSilicon / Chen | pCR 24.545 Rel-16 | Revision of C1-200559Sapan, Wednesday, 9:51Samsung and Huawei discussed about subscription and notification procedures which need to be defined in SEAL specifications. The summary of our discussion is as follows: 1)     SEAL specifications need to support both SIP based and HTTP based procedures for subscription and notification mechanism as described by stage 2.2)     The Rel-16 SEAL specifications are targeted to be used by V2XAPP only. The V2X service as of now do not support SIP based REGISTER. So HTTP based procedures are necessary.3)     For SIP based procedures – below issues need to be discussed and work upon:a.      Usage of identity to be used in SIP messagesb.      Description of new event packagec.      Usage of ICSI valuesd.      Usage of access-tokenC1-200559 will thus be revised to add HTTP based procedure and notes for SIP based procedure.Chen, Wednesday, 9:58A draft revision is available. |
|  |  | [C1-200880](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200880.zip) | On-demand usage of location information procedure | Huawei, HiSilicon / Chen | pCR 24.545 Rel-16 | Revision of C1-200561Sapan, Monday, 5:391) In clause 6.2.8.1 – First paragraph should be of normal style.2) Clause 6.2.3.2 => should be numbered as 6.2.8.2.3) In clause 6.2.3.2 (or new number 6.2.8.2) – steps starts from c). And auto-numbering is enabled. Kindly remove auto-numbering and provide proper step numbers.4) Clause 6.2.8.1 – “may share the information” – seems incomplete. Kindly reword it to add details – to whom to share the information?Chen, Monday, 7:41All of Sapan’s comments are taken on board.3) -> all the auto-numbering are replaced.4) -> “may share the information to a group or to another VAL user or VAL UE” as described in TS23.434 clause 9.3.9.A draft revision for is uploaded to the drafts folder.Sapan, Monda, 16:34I am fine with the draft revision. |
|  |  | [C1-200881](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200881.zip) | MBMS bearer announcement over MBMS bearer procedure | Huawei, HiSilicon / Chen | pCR 24.548 Rel-16 | Revision of C1-200562Sapan, Wednesday, 9:51Samsung and Huawei discussed about subscription and notification procedures which need to be defined in SEAL specifications. The summary of our discussion is as follows: 1)     SEAL specifications need to support both SIP based and HTTP based procedures for subscription and notification mechanism as described by stage 2.2)     The Rel-16 SEAL specifications are targeted to be used by V2XAPP only. The V2X service as of now do not support SIP based REGISTER. So HTTP based procedures are necessary.3)     For SIP based procedures – below issues need to be discussed and work upon:a.      Usage of identity to be used in SIP messagesb.      Description of new event packagec.      Usage of ICSI valuesd.      Usage of access-tokenC1-200562 will thus be revised to add HTTP based procedure and notes for SIP based procedure.Chen, Wednesday, 9:58A draft revision is available. |
|  |  | [C1-200882](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200882.zip) | MBMS bearer quality detection procedure | Huawei, HiSilicon / Chen | pCR 24.548 Rel-16 | Revision of C1-200563Sapan, Wednesday, 9:51Samsung and Huawei discussed about subscription and notification procedures which need to be defined in SEAL specifications. The summary of our discussion is as follows: 1)     SEAL specifications need to support both SIP based and HTTP based procedures for subscription and notification mechanism as described by stage 2.2)     The Rel-16 SEAL specifications are targeted to be used by V2XAPP only. The V2X service as of now do not support SIP based REGISTER. So HTTP based procedures are necessary.3)     For SIP based procedures – below issues need to be discussed and work upon:a.      Usage of identity to be used in SIP messagesb.      Description of new event packagec.      Usage of ICSI valuesd.      Usage of access-tokenC1-200563 will thus be revised to add HTTP based procedure and notes for SIP based procedure.Chen, Wednesday, 9:58A draft revision is available. |
|  |  | [C1-200884](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200884.zip) | Group member leave procedure | Samsung / Sapan | pCR 24.544 Rel-16 | Revision of C1-200642Chen, Wednesday, 2:49Before the word “HTTP” there should be an “an”/”the”, not missing or “a”Sapan, Wednesday, 11:15I have taken Chen’s comment into account in the draft revision. |
|  |  | [C1-200885](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200885.zip) | Group announcement and join procedure | Samsung / Sapan | pCR 24.544 Rel-16 | Revision of C1-200641Chen, Wednesday, 2:49Before the word “HTTP” there should be an “an”/”the”, not missing or “a”Sapan, Wednesday, 11:15I have taken Chen’s comments into account in the draft revision. |
|  |  | [C1-200887](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200887.zip) | Procedures for management of group events subscription | Samsung / Sapan | pCR 24.544 Rel-16 | Revision of C1-200638Related to C1-200637Sapan, Wednesday, 9:51Samsung and Huawei discussed about subscription and notification procedures which need to be defined in SEAL specifications. The summary of our discussion is as follows: 1)     SEAL specifications need to support both SIP based and HTTP based procedures for subscription and notification mechanism as described by stage 2.2)     The Rel-16 SEAL specifications are targeted to be used by V2XAPP only. The V2X service as of now do not support SIP based REGISTER. So HTTP based procedures are necessary.3)     For SIP based procedures – below issues need to be discussed and work upon:a.      Usage of identity to be used in SIP messagesb.      Description of new event packagec.      Usage of ICSI valuesd.      Usage of access-tokenC1-200638 will thus be revised to add editor’s note to describe SIP based proceduresSapan, Wednesday, 11:37A draft revision is availableChen, Wednesday, 15:06I am fine with the draft revision. |
|  |  | [C1-200888](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200888.zip) | Procedures to notify group events | Samsung / Sapan | pCR 24.544 Rel-16 | Revision of C1-200639Related to C1-200637Sapan, Wednesday, 9:51Samsung and Huawei discussed about subscription and notification procedures which need to be defined in SEAL specifications. The summary of our discussion is as follows: 1)     SEAL specifications need to support both SIP based and HTTP based procedures for subscription and notification mechanism as described by stage 2.2)     The Rel-16 SEAL specifications are targeted to be used by V2XAPP only. The V2X service as of now do not support SIP based REGISTER. So HTTP based procedures are necessary.3)     For SIP based procedures – below issues need to be discussed and work upon:a.      Usage of identity to be used in SIP messagesb.      Description of new event packagec.      Usage of ICSI valuesd.      Usage of access-tokenC1-200639 will thus be revised to add editor’s note to describe SIP based proceduresSapan, Wednesday, 11:37A draft revision is availableChen, Wednesday, 15:06I am fine with the draft revision. |
|  |  | [C1-200901](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200901.zip) | Update to Event-triggered location reporting procedure | Huawei, HiSilicon /Christian | pCR 24.545 Rel-16 | Revision of C1-200774---------------------------------Revision of C1-200608Sapan, Thursday, 14:451)    In clause 6.2.2.1, step a), reference to clause 6.2.2.2 needs to be modified to clause 6.2.2.2*.2*.2)    In clause 6.2.2.2.1:            b) shall set X-3GPP-Intended-Identity header to the VAL user identity requesting for location reporting configuration.        Should be changed to            b) shall include an Authorization header field with the "Bearer" authentication scheme set to an access token of the "bearer" token type as specified in IETF RFC 6750 [r6750].3)    In clause 6.2.2.3.1,            B) a <triggering-criteria> child element which indicate a specified location trigger criteria to send the location report; and        should be changed to            B) a <triggering-criteria> child element specifying the triggers for the SLM-C to request a location report as specified in clause 7; and4)    In clause 6.2.2.3.1, not able to understand below step - can you please reword it?            3) shall include the <trigger-id> attribute where defined for the sub-elements defining the trigger criterion; andChristian, Friday, 17:42Feedback on Sapan’s comments:1) -> It is going to be correcting by a revision.2) -> We kindly disagree. Please, note that the HTTP message cannot contain a MIME body which provides an <identity> element, and therefore a “X-3GPP-Intended-Identity header” needs to be used instead. Additionally, not that TS 24.546 includes “shall set X-3GPP-Intended-Identity header to the VAL user identity.”3) -> It is going to be correcting by a revision.4) -> We kindly disagree. This same wording is already in MCPTT specs, see for instance TS 24.379.Sapan, Monday, 8:10Feedback on Christian’s comments:2) -> The VAL user's identity is already encoded within access-token (of type "Bearer") shared by Identity Management Server (SIL-S). The purpose for SIM-S to provide “Bearer” type access-token is that any SEAL client can share the access-token to SEAL server to request service. The SEAL server will validate the access-token present in Authorization header field with “Bearer” scheme type. Similar authentication mechanism is used in MCX specification too - for example: 3GPP TS 24.484 – clause A.2.1 – In step#1) CMC-1 adds Authorization header and in step#2) CMS authorized the user using access-token present in Authorization header. I have already provided contribution (**C1-200650**) **to correct procedures of TS 24.546** (as you have already pointed out below).4) -> Ok.Christian, Tuesday, 20:08For 2), we believe that we should follow the identity procedure as defined by TS 24.546. By the way, it seems that Sapan’s p-CR in C1-200650 also follows the way we propose.Christian, Wednesday, 12:56A draft revision is available taking into account Sapan’s comments agreed during the email exchange.Sapan, Wednesday, 13:32I am fine with all changes in the draft revision except usage of X-3GPP-Intended-Identity header. I still believe that as per user authentication and authorization framework defined in SA3 - the client needs to send access-token in Authorization header field with the "Bearer" authentication scheme. The similar discussion is already concluded in another email thread - (Subject: Re: (2) [16.2.20\_C1-200650]). I would like to go ahead with your proposed revised draft for now. We can have offline discussions and based on that if changes are required to be made then we can take it up in next meeting.Christian, Wednesday,15:51 We both have raised good points about our different point of views on this controversial issue but we need to agree that it is up to SA3 to make a decision.I am well aware of your discussion with Chen on your p-CR C1-200650 as Chen and myself do coordinate. To both of us you are questioning the usage of the X-3GPP-Intended-Identity header when it is in fact already in the SEAL TSs and to us still feasible while in your documents you argue that this is wrong and needs to be replaced. We have indicated that we are fine to accept your p-CRs proposal on this issue so we are fine to go as you propose, i.e., all different p-CRs are kept as proposed on the issue. But please we should have a sort of consistent set of CT1 SEAL TSs as a result of this e-meeting, and therefore we should identify that this controversial issue exists in all proposals. Hence, I would propose to add a similar editor’s note in all TSs, i.e., the revision of Huawei’s C1-200774 but also Samsung’s C1-200633 and C1-200650. The editor’s note should capture in my specification the need to check the usage of the X-3GPP-Intended-Identity header based on security requirements (TS 33.434) and in your p-CRs the need to check the usage of access-token in Authorization header field with the "Bearer" authentication scheme based on also security requirements. Mainly, as the proposal you point out (in S3-200166) is not agreed yet (so not part of TS 33.434). I believe that capturing the issue by editor’s note in the TSs helps in concluding in it in a consistent way in all SEAL CT1 TSs in future meeting, and ensuring that as soon as security requirements are sorted out, all TSs will be aligned.Christian, Wednesday, 16:56I have added the Editor’s note in an updated draft revision. |
|  |  | [C1-200902](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200902.zip) | Update to structure and data semantics for event-triggered location reporting procedure | Huawei, HiSilicon /Christian | pCR 24.545 Rel-16 | Revision of C1-200775------------------------------Revision of C1-200610Sapan, Thursday, 15:36The structure in clause 7.3 and the data semantics in clause 7.5 are not matching.the triggering criteria should be optional only. Can you please change clause 7.3 from “shall” to “may”? Same comment applies to the <triggering-criteria> element of <report> element also (which is already existing text).Christian, Friday, 17:17I believe that you misread current TS 24.545, and therefore C1-200775.Please, note that current TS 24.545 already describes the same structure and semantics which is in fact correct and follows the MCPTT specification way of doing it. Hence, there is no conflict between 7.3 and 7.5 as both clauses are aligned.For example the <triggering-criteria> element “shall” include a <cell-change>, <tracking-area-change> **or** <plmn-change> element (one of them). Now, when **a** <cell-change> element **is in fact** **included** so the “shall include” means “**if** the element is included then” (i.e., optional element) one more element follows. In other words, the “shall include” above means the element may or not be included, so again it is optional.Christian, Wednesday, 12:58A draft revision taking into account Sapan’s comments agreed during the email exchange is available. The revision just correct a number of editorials (unnecessary “or”, extra blank spaces, etc).Sapan, Wednesday, 13:33I am fine with the draft revision. |
|  |  | [C1-200904](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200904.zip) | General on unicast resource management | Huawei, HiSilicon /Christian | pCR 24.548 Rel-16 | Revision of C1-200617Sapan, Monday, 9:501) In clause 6.2.2.1 – points a), b) and c) are repeated again after second paragraph.2) Second paragraph needs to be reworded:The VAL client can request the VAL server to provide unicast resources (see clause 6.2.2), to modify or to release unicast resources (see clause 6.2.3) or to perform network resource adaptation (see clause 6.2.4).3) Can you please recheck the clause number referenced? – In above line - Clause 6.2.3 is for multicast resource management, and there is no clause 6.2.4. Did you mean to refer clause 6.2.2.2, 6.2.2.3 and 6.2.2.4 ?4) Please provide stage#3 references instead of stage#2 reference (23.286). Also, reference number [7] is for RFC 3428 and not for TS 23.286. 5) Please provide stage#3 CT4 reference instead of stage#2 references (23.203 and 23.503). Also, reference numbers [18] and [19] doesn’t exists.Christian, Tuesday, 20:02I have produced a draft revision which should take all of Sapan’s comments into account. |
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|  | Other Rel-16 non-IMS issues |  | Peter – Main |  |  | Other Rel-16 non-IMS topics**Only revision of agreed CRs from the ad-hoc meeting and DISC paper supporting LS** |
|  |  | C1ah-200024 | Correction for misalignment of 23.041 with 23.007 and 23.527 | Ericsson, one2many / Ivo | CR 0204 23.041 Rel-16 | Agreed |
|  |  | C1ah-200064 | Correction on T3402 for deactivated value | Huawei, HiSilicon/Lin | CR 3321 24.301 Rel-16 | Agreed |
|  |  | C1ah-200186 | Correcting reference | BlackBerry UK Ltd. | CR 0128 24.007 Rel-16 | AgreedRevision of C1ah-200136\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Revision of C1ah-200134\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Revision of C1ah-200010 |
|  |  | C1ah-200207 | Correcting active flag and signalling active flag wording | BlackBerry UK Ltd. | CR 3314 24.301 Rel-16 | Agreed Revision of C1ah-200193\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Revision of C1ah-200185\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Revision of C1ah-200128\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Revision of C1ah-200015 |
|  |  | C1ah-200209 | Correct UE behavior when maximum number of active EPS bearer contexts is reached and the upper layers request more DRBs | BlackBerry UK Limited | CR 3317 24.301 Rel-16 | Agreed Revision of C1ah-200184\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Revision of C1ah-200125\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Revision of C1ah-200052 |
|  |  | [C1-200308](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200308.zip) | Removal of Duplicate Service Operation Details | Cisco Systems Belgium | CR 0207 23.041 Rel-16 | PostponedNew CR under TEI16, out of scope for this meeting |
|  |  | [C1-200606](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200606.zip) | Considerations for AML over SMS in roaming scenarios | Apple | discussion Rel-16 | PostponedNew input DISC on TEI16, out of scope of this meeting |
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|  | WIs for IMS |  | Joergen – Breakout  |  |  |  |
|  | MCCI\_CT |  |  |  |  | Mission Critical Communication Interworking with Land Mobile Radio SystemsIs TS 29.582 sufficiently stable to be sent to CT#87-e for approval? |
|  |  | [C1-200366](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200366.zip) | Non-3GPP Message for Data interworking | Sepura, Hytera Communications Corp. | pCR 29.582 Rel-16 |  |
|  |  | [C1-200367](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200367.zip) | SDS media plane message handling by IWF | Sepura, Hytera Communications Corp. | pCR 29.582 Rel-16 |  |
|  |  | [C1-200369](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200369.zip) | Remove editor's note – clause 4.1 | FirstNet / Mike | pCR 29.582 Rel-16 |  |
|  |  | [C1-200370](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200370.zip) | Remove editor's note – clause 4.2.2 | FirstNet / Mike | pCR 29.582 Rel-16 |  |
|  |  | [C1-200371](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200371.zip) | Remove editor's note – clause 6.3.2.1 | FirstNet / Mike | pCR 29.582 Rel-16 |  |
|  |  | [C1-200372](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200372.zip) | Remove editor's note – clause 6.6.2 | FirstNet / Mike | pCR 29.582 Rel-16 |  |
|  |  | [C1-200373](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200373.zip) | Remove editor's note – clause 8.3.2.8 | FirstNet / Mike | pCR 29.582 Rel-16 |  |
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|  | MCProtoc16 |  | Joergen – Breakout  |  |  | Protocol enhancements for Mission Critical Services for Rel-16 |
|  |  | [C1-200357](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200357.zip) | Correcting SIP related terminology | Ericsson / Nevenka | CR 0543 24.379 Rel-16 |  |
|  |  | [C1-200358](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200358.zip) | Correcting SIP related terminology | Ericsson / Nevenka | CR 0089 24.281 Rel-16 |  |
|  |  | [C1-200359](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200359.zip) | Correcting SIP related terminology | Ericsson / Nevenka | CR 0099 24.282 Rel-16 |  |
|  |  | [C1-200709](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200709.zip) | FEC encoding by the BM-SC | ENENSYS | CR 0068 24.581 Rel-16 |  |
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|  | MuD |  | Joergen – Breakout |  |  | Multi-device and multi-identityIs TS 24.174 sufficiently stable to be sent to CT#87-e for approval?Is Ts 24.175 management object sufficiently stable to be sent to CT#87-e for approval? |
|  |  | [C1-200360](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200360.zip) | Update of OMA references | Ericsson / Nevenka | pCR 24.174 Rel-16 |  |
|  |  | [C1-200361](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200361.zip) | Adding interactions with "Multi-Device" and "Multi-Identity" services | Ericsson / Nevenka | CR 0188 24.604 Rel-16 |  |
|  |  | [C1-200362](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200362.zip) | Adding interactions with "Multi-Device" and "Multi-Identity" services | Ericsson / Nevenka | CR 0028 24.605 Rel-16 |  |
|  |  | [C1-200363](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200363.zip) | Adding interactions with "Multi-Device" and "Multi-Identity" services | Ericsson / Nevenka | CR 0075 24.615 Rel-16 |  |
|  |  | [C1-200364](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200364.zip) | Adding interactions with "Multi-Device" and "Multi-Identity" services | Ericsson / Nevenka | CR 0039 24.629 Rel-16 |  |
|  |  | [C1-200653](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200653.zip) | Clarifications of identity definitions and activation procedures | Ericsson /Jörgen | pCR 24.174 Rel-16 |  |
|  |  | [C1-200654](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200654.zip) | Call log handling, Additional-Identity | Ericsson /Jörgen | pCR 24.174 Rel-16 |  |
|  |  | [C1-200656](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200656.zip) | Conf indication completion | Ericsson /Jörgen | pCR 24.174 Rel-16 |  |
|  |  | [C1-200657](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200657.zip) | Management object correction, MuD | Ericsson /Jörgen | pCR 24.175 Rel-16 |  |
|  |  | [C1-200664](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200664.zip) | MO for MuD and MiD correction | Orange / Mariusz | pCR 24.175 Rel-16 |  |
|  |  | [C1-200665](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200665.zip) | MuD MiD and CAT interactions | Orange / Mariusz | pCR 24.174 Rel-16 |  |
|  |  | [C1-200667](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200667.zip) | MuD MiD and CRS interactions | Orange / Mariusz | pCR 24.174 Rel-16 |  |
|  |  | [C1-200668](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200668.zip) | CAT interactsions with MuD and MiD | Orange / Mariusz | CR 0118 24.182 Rel-16 |  |
|  |  | [C1-200670](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200670.zip) | CRS interactsions with MuD and MiD | Orange / Mariusz | CR 0061 24.183 Rel-16 |  |
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|  | IMSProtoc16 |  | Joergen – Breakout  |  |  | IMS Stage-3 IETF Protocol Alignment for Rel-16 |
|  |  | [C1-200625](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200625.zip) | Location information; mid-call access change | Ericsson, Deutsche Telekom /Jörgen | CR 6411 24.229 Rel-16 |  |
|  |  | [C1-200659](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200659.zip) | Correction of P-Associated-URI handling | Ericsson /Jörgen | CR 6412 24.229 Rel-16 |  |
|  |  | [C1-200684](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200684.zip) | UAC for MO-IMS registration related signalling EN resolution | NTT DOCOMO INC. | CR 6413 24.229 Rel-16 |  |
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|  | MCSMI\_CT |  | Joergen – Breakout  |  |  | Mission Critical system migration and interconnection |
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|  | eMCData2 |  | Joergen – Breakout  |  |  | CT aspects of Enhancements to Functional architecture and information flows for Mission Critical Data |
|  |  | [C1-200447](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200447.zip) | Key download procedrue for MCData | Samsung / Sapan | CR 0102 24.282 Rel-16 |  |
|  |  | [C1-200475](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200475.zip) | Delete Stored Object(s) in MCData message store | AT&T, Samsung  | CR 0106 24.282 Rel-16 |  |
|  |  | [C1-200531](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200531.zip) | Add Message Store Client subclause  | AT&T, Samsung  | CR 0107 24.282 Rel-16 |  |
|  |  | [C1-200539](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200539.zip) | Copy stored object(s) and-or folder(s) | AT&T, Samsung  | CR 0108 24.282 Rel-16 |  |
|  |  | [C1-200540](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200540.zip) | Creating new folder | AT&T, Samsung  | CR 0109 24.282 Rel-16 |  |
|  |  | [C1-200541](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200541.zip) | Delete folder | AT&T, Samsung  | CR 0110 24.282 Rel-16 |  |
|  |  | [C1-200542](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200542.zip) | Move object(s) and folder(s) | AT&T, Samsung  | CR 0111 24.282 Rel-16 |  |
|  |  | [C1-200543](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200543.zip) | Search for Folders in MCData message store | AT&T, Samsung  | CR 0112 24.282 Rel-16 |  |
|  |  | [C1-200544](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200544.zip) | Retrieval of stored object | AT&T, Samsung  | CR 0103 24.282 Rel-16 | Revision of C1-200448 |
|  |  | [C1-200548](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200548.zip) | Search for Objects in MCData message store | AT&T, Samsung  | CR 0104 24.282 Rel-16 | Revision of C1-200473 |
|  |  | [C1-200550](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200550.zip) | Update Object(s) in MCData message store | AT&T, Samsung  | CR 0105 24.282 Rel-16 | Revision of C1-200474 |
|  |  | [C1-200705](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200705.zip) | Move the stored object to destination folder | Samsung Electronics Co., Ltd | CR 0113 24.282 Rel-16 |  |
|  |  | [C1-200711](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200711.zip) | Upload the objects to the MCData message store | Samsung, AT&T | CR 0114 24.282 Rel-16 |  |
|  |  | [C1-200712](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200712.zip) | Included absolute URI associated with the media storage function of MCData content server | Samsung | CR 0066 24.483 Rel-16 |  |
|  |  | [C1-200713](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200713.zip) | Included absolute URI associated with the media storage function of MCData content server | Samsung | CR 0135 24.484 Rel-16 |  |
|  |  | [C1-200714](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200714.zip) | Accessing the absolute URI associated with the media storage function | Samsung | CR 0115 24.282 Rel-16 |  |
|  |  | [C1-200715](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200715.zip) | Corrections to TDC2 and TDC3 timer handling | Samsung | CR 0116 24.282 Rel-16 |  |
|  |  | [C1-200716](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200716.zip) | The pre-establshed session modification for MCData | Samsung | CR 0117 24.282 Rel-16 |  |
|  |  | C1-200766 | File distribution over MBMS - signalling control | ENENSYS | CR 0093 24.282 Rel-16 | PostponedDocument was LATERevision of C1-198542 |
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|  | E2E\_DELAY (CT4) |  | Joergen – Breakout |  |  | CT Aspects of Media Handling for RAN Delay Budget Reporting in MTSI100% |
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|  | VBCLTE (CT3 lead) |  | Joergen – Breakout |  |  | Volume Based Charging Aspects for VoLTE CT |
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|  | ISAT-MO-WITHDRAW |  | Joergen – Breakout |  |  | Withdrawal of TS 24.323 from Rel-11, Rel-12, Rel-13No CRs needed, listed for the sake of completeness100% |
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|  | MONASTERY2 |  | Joergen – Breakout |  |  | Mobile Communication System for Railways Phase 2 |
|  |  | [C1-200408](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200408.zip) | Automatic group affiliation and deaffiliation based on location or functional alias | Kontron Transportation, Nokia, Nokia Shanghai Bell | CR 0132 24.484 Rel-16 | Revision of C1-198846 |
|  |  | [C1-200409](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200409.zip) | Automatic group affiliation and deaffiliation based on location or functional alias | Kontron Transportation, Nokia, Nokia Shanghai Bell | CR 0064 24.483 Rel-16 | Revision of C1-198847 |
|  |  | [C1-200410](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200410.zip) | Automatic group affiliation and deaffiliation based on location or functional alias | Kontron TransportationS, Nokia, Nokia Shanghai Bell | CR 0541 24.379 Rel-16 | Revision of C1-198803 |
|  |  | [C1-200412](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200412.zip) | IP Connectivity | Kontron Transportation | CR 0101 24.282 Rel-16 |  |
|  |  | [C1-200749](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200749.zip) | Work plan for the CT1 part of MONASTERY2 | Nokia, Nokia Shanghai Bell | discussion Rel-16 |  |
|  |  | [C1-200750](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200750.zip) | Analysis of options for FA resolution | Nokia, Nokia Shanghai Bell | discussion Rel-16 |  |
|  |  | [C1-200751](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200751.zip) | Support of functional alias in first-to-answer calls | Nokia, Nokia Shanghai Bell | CR 0551 24.379 Rel-16 |  |
|  |  | C1-200752 | Update service configuration to support limiting the number of authorized clients per MCPTT user | Nokia, Nokia Shanghai Bell | CR 0136 24.484 Rel-16 | PostponedDocument was LATE |
|  |  | [C1-200753](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200753.zip) | Update service authorization procedures to support limiting the number of authorized clients per MCPTT user | Nokia, Nokia Shanghai Bell | CR 0552 24.379 Rel-16 |  |
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|  | eIMS5G\_SBA |  | Joergen – Breakout |  |  | CT aspects of SBA interactions between IMS and 5GC |
|  |  | [C1-200353](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200353.zip) | No impact from SBA on main body | Nokia, Nokia Shanghai Bell, Ericsson | CR 6408 24.229 Rel-16 |  |
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|  | enh2MCPTT-CT |  | Joergen – Breakout |  |  | Enhancements for Mission Critical Push-to-Talk CT aspects |
|  |  | [C1-200374](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200374.zip) | Affiliation in a regroup | FirstNet / Mike | CR 0544 24.379 Rel-16 |  |
|  |  | [C1-200375](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200375.zip) | Ambiguity of location information in 6.3.2.1.4 | FirstNet / Mike | CR 0545 24.379 Rel-16 |  |
|  |  | [C1-200376](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200376.zip) | Calling party location | FirstNet / Mike | CR 0546 24.379 Rel-16 |  |
|  |  | [C1-200377](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200377.zip) | Check for controlling function identity in 10.1.1.3.1.1 | FirstNet / Mike | CR 0547 24.379 Rel-16 |  |
|  |  | [C1-200378](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200378.zip) | Check for groups that are already regrouped | FirstNet / Mike | CR 0548 24.379 Rel-16 |  |
|  |  | [C1-200379](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200379.zip) | Correct clause reference in 11.1.1.3.1.2 | FirstNet / Mike | CR 0549 24.379 Rel-16 |  |
|  |  | [C1-200380](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200380.zip) | Missing client procedures for preconfigured regroup | FirstNet / Mike | CR 0550 24.379 Rel-16 |  |
|  |  | [C1-200381](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200381.zip) | Correct reference in 8.3.2.6 | FirstNet / Mike | CR 0100 24.282 Rel-16 |  |
|  |  | [C1-200382](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200382.zip) | Update on Plugtest Reported Issues | FirstNet / Mike | discussion Rel-16 |  |
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|  | eIMSVideo |  | Joergen – Breakout |  |  | Video enhancement of IMS CAT/CRS/announcement services |
|  |  | [C1-200481](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200481.zip) | Work plan for eIMSVideo | Huawei,China Telecom,China Unicom,HiSilicon /Hongxia | discussion Rel-16 |  |
|  |  | C1-200487 | Work plan for eIMSVideo | Huawei,China Telecom,China Unicom,HiSilicon /Hongxia | discussion Rel-16 | Withdrawn |
|  |  | [C1-200482](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200482.zip) | Use precondition only for CAT when network disables precondition | Huawei,China Telecom,China Unicom,HiSilicon /Hongxia | CR 0114 24.182 Rel-16 |  |
|  |  | [C1-200483](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200483.zip) | Use precondition for CAT when originating UE and network both support precondtion | Huawei,China Telecom,China Unicom,HiSilicon /Hongxia | CR 0115 24.182 Rel-16 |  |
|  |  | [C1-200484](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200484.zip) | Use precondition for CRS when network disables precondition | Huawei,China Telecom,China Unicom,HiSilicon /Hongxia | CR 0057 24.183 Rel-16 |  |
|  |  | [C1-200485](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200485.zip) | Use precondition for CRS when terminating UE supports or requires precondition | Huawei,China Telecom,China Unicom,HiSilicon /Hongxia | CR 0058 24.183 Rel-16 |  |
|  |  | [C1-200486](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200486.zip) | Providing video announcement at the same time with audio conversation | Huawei,China Telecom,China Unicom,HiSilicon /Hongxia | CR 0072 24.628 Rel-16 |  |
|  |  | C1-200488 | Use precondition only for CAT when network disables precondition | Huawei,China Telecom,China Unicom,HiSilicon /Hongxia | CR 0116 24.182 Rel-16 | Withdrawn |
|  |  | C1-200489 | Use precondition for CAT when originating UE and network both support precondtion | Huawei,China Telecom,China Unicom,HiSilicon /Hongxia | CR 0117 24.182 Rel-16 | Withdrawn |
|  |  | C1-200490 | Use precondition for CRS when network disables precondition | Huawei,China Telecom,China Unicom,HiSilicon /Hongxia | CR 0059 24.183 Rel-16 | Withdrawn |
|  |  | C1-200491 | Use precondition for CRS when terminating UE supports or requires precondition | Huawei,China Telecom,China Unicom,HiSilicon /Hongxia | CR 0060 24.183 Rel-16 | Withdrawn |
|  |  | C1-200492 | Providing video announcement at the same time with audio conversation | Huawei,China Telecom,China Unicom,HiSilicon /Hongxia | CR 0073 24.628 Rel-16 | Withdrawn |
|  |  | [C1-200546](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200546.zip) | Condition of providing video announcement | China Telecom,Huawei, China Unicom, HiSilicon | CR 0074 24.628 Rel-16 |  |
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|  | Other Rel-16 IMS & MC issues |  | Joergen – Breakout  |  |  | Other Rel-16 IMS topics |
|  |  | [C1-200365](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200365.zip) | SDP profile update to support FLUS | Ericsson / Nevenka | CR 6409 24.229 Rel-16 |  |
|  |  | [C1-200673](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200673.zip) | Discussion on SRVCC from E-UTRAN to GERAN/UTRAN when IMS voice call is initiated in 5GS | Ericsson / Ivo | discussion Rel-16 |  |
|  |  | [C1-200674](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200674.zip) | SRVCC from E-UTRAN to GERAN/UTRAN when IMS voice call is initiated in 5GS | Ericsson / Ivo | CR 1298 24.237 Rel-16 |  |
|  |  | [C1-200772](http://www.3gpp.org/ftp/tsg_ct/WG1_mm-cc-sm_ex-CN1/TSGC1_122e/Docs/C1-200772.zip) | Correction in IMS\_Registration\_handling policy about how UE should deregister | MediaTek Inc. | CR 640424.229 Rel-16 | PostponedDocument was late  |
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|  | Release 17work items | Tdoc | **NOT PART OF THIS MEETING** |  |  |  |
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|  | Output Liaison Statements | Tdoc | Title | Prepared by | To/CC | Result & comment |
|  |  | [C1-200309](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200309.zip) | Reply LS on General Status of Work | Ericsson / Ivo | LS out Rel-16 |  |
|  |  | [C1-200310](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200310.zip) | Reply LS on sending CAG ID | Ericsson / Ivo | LS out Rel-16 |  |
|  |  | [C1-200395](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200395.zip) | Reply LS on SUCI computation from an NSI | Ericsson / Ivo | LS out Rel-16 |  |
|  |  | [C1-200434](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200434.zip) | LS on secure that a UE does not wait indefinitely for completion of NSSAA procedure | ZTE | LS out Rel-16 |  |
|  |  | [C1-200499](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200499.zip) | Reply LS on Rel-16 NB-IoT enhancements | Huawei, HiSilicon/Lin | LS out Rel-16 | C1-200416 and C1-200499 compete |
|  |  | [C1-200545](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200545.zip) | Reply LS on PC5S and PC5 RRC unicast message protection | OPPO / Rae | LS out Rel-16 |  |
|  |  | [C1-200590](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200590.zip) | LS on suspend indication to the NAS  | Samsung/Mahmoud | LS out Rel-16 |  |
|  |  | [C1-200699](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200699.zip) | LS on manual CAG selection | Nokia, Nokia Shanghai Bell | LS out Rel-16 |  |
|  |  | [C1-200707](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200707.zip) | Reply LS on Mobile-terminated Early Data Transmission | Ericsson / Mikael | LS out Rel-16 |  |
|  |  | [C1-200710](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200710.zip) | Reply LS on RRC establishment cause value in EPS voice fallback from NR to E-UTRAN | Nokia, Nokia Shanghai Bell | LS out Rel-16 |  |
|  |  | [C1-200717](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200717.zip) | Reply LS on extended NAS timers for CE in 5GS | Ericsson / Mikael | LS out Rel-16 |  |
|  |  | [C1-200718](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200718.zip) | Reply LS on configured NSSAI handling | Nokia, Nokia Shanghai Bell | LS out Rel-16 |  |
|  |  | [C1-200721](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200721.zip) | Reply LS on Non-UE N2 Message Services Operations | Ericsson / Mikael | LS out Rel-16 |  |
|  |  | [C1-200764](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200764.zip) | reply LS for concurrent broadcast for CMAS | Samsung /Grace | LS out Rel-16 | Proposed PostponedThe related incoming LS in C1-200226 is Rel-15 and hence not in scope of this meeting. Consequently any Reply LS is not in scope of the meeting either (although header of this LS lists Rel-16) |
|  |  | [C1-200323](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200323.zip) | Response to LS on Non-UE N2 Message Services Operations | Cisco Systems Belgium | LS out Rel-16 | WithdrawnMoved from 16.2.21 |
|  |  | [C1-200416](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200416.zip) | LS on UE specific DRX for NB-S1 mode | Qualcomm Incorporated / Amer | LS out Rel-16 | Moved from 16.2.8C1-200416 and C1-200499 compete |
|  |  | [C1-200445](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200445.zip) | [Draft] LS on Unicode symbol numbers representing disasters | SyncTechno Inc. | LS out Rel-16 | Moved from 16.2.1 |
|  |  | [C1-200453](file:///C%3A%5CUsers%5Cdems1ce9%5COneDrive%20-%20Nokia%5C3gpp%5Ccn1%5Cmeetings%5C122-e_electronic_0220%5Cdocs%5CC1-200453.zip) | LS on limited service state for CAG cell | Huawei, HiSilicon / Vishnu | LS out Rel-16 | Moved from 16.2.7.1 |
|  |  | C1-200671 | Response to LS on Sending CAG ID | Samsung/Kundan | LS out Rel-16 | Moved from 16.7.1LATE |
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|  | Late and misplaced documents | Tdoc | Title Prioritization of documents within this category will be done during the meeting.Some tdocs are left in the main agenda item, although they are late (e.g. papers reporting IETF progress, which are usually more up to date the later they are submitted)  | Source | Tdoc info | Result & comments Late documents and documents which were submitted with erroneous or incomplete information  |
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|  | ClosingFridayby 16:00 at the latest |  | Did you mark your attendance to this meeting? |  |  | Any meeting document which is not mentioned in this report or with no recorded decision shall be interpreted as "reserved", i.e. not defined and shall be ignored if received |
|  |  |  | **Last upload of revisions:** **Thursday 27th February 2020 16:00 CET****Last comments:****Friday 28th February 2020 16:00 CET****Chairman Report of the meeting:** **Monday 2nd March 2020** |  |  |  |
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