**3GPP TSG-CT WG4 Meeting #125 C4-244006**

**Hefei, P.R.China, 14th–18th October 2024**

**Source: Chairman, TSG-CT WG4**

**Title: Proposed allocation of documents to agenda items for CT4#125, status on eve of meeting**

**Agenda item: 2**

**Document for: INFORMATION**

Document available, not yet treated

Document available late, not yet treated

Document not available

Document treated

Document available later

NOTE 1: Hyperlinks assume that this document is extracted and stored in a directory and all documents are in a subdirectory "docs" of this directory.

NOTE 2: Late arrived Contributions will be handled only, if time allows and any company has the right to ask for postponing the document to the next meeting. The detailed agenda and time plan on eve of meeting, and the proposed allocation of documents to agenda items, are treated as being received on time even though they are available only at the start of the meeting (the chair does have **some** privileges)

NOTE 3: If a document which was received late (after the deadline) is a revision of a document which was received before the deadline, it is treated as being received on time.

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| Agenda | Agenda Item Title | **Tdoc**  **CP-24#** | Document Title | Source | Decision | Notes |
| **1** | **Opening of the meeting** |  |  |  |  |  |
| **1.1** | **Welcome speech** |  |  |  |  | Welcome speech and other administrative information |
|  |  |  |  |  |  |  |
| **1.2** | **IPR Declarations** |  |  |  |  | Reminder about the IPR declaration |
|  |  |  | The attention of the delegates to the meeting of this Technical Specification Group is drawn to the fact that 3GPP Individual Members have the obligation under the IPR Policies of their respective Organizational Partners to inform their respective Organizational Partners of Essential IPRs they become aware of.  The delegates are asked to take note that they are thereby invited:  - to investigate whether their organization or any other organization owns IPRs which were, or were likely to become Essential in respect of the work of 3GPP.  - to notify their respective Organizational Partners of all potential IPRs, e.g., for ETSI, by means of the IPR Information Statement and the Licensing declaration forms | | |  |
| **1.3** | **Antitrust declarations** |  |  |  |  | Reminder about the antitrust and competition laws |
|  |  |  | I also draw your attention to the fact that 3GPP activities are subject to 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 present meeting will be conducted with strict 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/SWG meetings is important to allow for full and fair consideration of such matters. | | |  |
| **1.4** | **Reminder for delegates attending the meeting** |  |  |  |  |  |
|  |  |  | This meeting counts towards accrual and maintenance of voting rights.   * Please register using 3GPP portal: [3GPP Portal > Home](https://portal.3gpp.org/#/).. * Please confirm your participation by checking in by using the link provided by the tool when performing registration. Only possible after start of the meeting and before closing of the meeting. * Meeting guidelines are provided in C4-244002 | | |  |
| **2** | **Allocation of Documents to Agenda Items** |  |  |  |  |  |
|  |  | [4001](./docs/C4-244001.zip) | agenda Draft Agenda | CT4 Chair | Noted |  |
|  |  | [4002](./docs/C4-244002.zip) | other Meeting guidelines for CT4 Working Group meeting | CT4 Chair | Noted |  |
|  |  | [4003](./docs/C4-244003.zip) | agenda Detailed agenda & time plan for CT4 meeting: status at document deadline | CT4 Chair | Noted |  |
|  |  | [4004](./docs/C4-244004.zip) | agenda Detailed agenda & time plan for CT4 meeting: status on eve of meeting | CT4 Chair | Noted |  |
|  |  | [4005](./docs/C4-244005.zip) | agenda Proposed allocation of documents to agenda items for CT4 meeting: status at document deadline | CT4 Chair | Noted |  |
|  |  | [4006](./docs/C4-244006.zip) | agenda Proposed allocation of documents to agenda items for CT4 meeting: status on eve of meeting | CT4 Chair | Noted |  |
|  |  | 4007 | agenda The allocation of documents to agenda items for CT4 meeting: status at the end of meeting | CT4 Chair |  |  |
| **3** | **Reports** |  |  |  |  |  |
|  |  | [4008](./docs/C4-244008.zip) | report Previous TSG CT & SA Status Report | CT4 Chair | Noted |  |
|  |  | [4009](./docs/C4-244009.zip) | report Previous CT4 meeting report | MCC | Approved |  |
| **4** | **Liaison statements** |  |  |  |  | All Liaison statements are handled under this agenda item |
| **4.1** | **Incoming liaisons** |  |  |  |  |  |
|  | **Plenary** | [4012](./docs/C4-244012.zip) | LS in LS “N32-f lifetime and reconnection”to 3GPP CT4/SA3 | 5GMRR | Noted | 5GMRR Doc 45\_07r1  To: CT4, SA3  CC:  Contact: Bics  Postponed from CT4#124 meeting  Related CR in 4238 and mirror  Reply LS in 4320 |
|  | **Plenary** | [4013](./docs/C4-244013.zip) | LS in Rel-18 Response LS on Restoration of N3mb Failure for MBS Broadcast | RAN3 | Noted | R3-243888  To: CT4  CC: SA2  Contact: Nokia  Postponed from CT4#124 meeting  “*Frank: should we cover all the three scenarios? We should give delegates more time considering all the scenarios.*  *Only one scenario of the 3 in the incoming LS has been discussed during this meeting. More discussion needed in the next meeting*”  Related CR in 4212  Reply LS in 4203 |
|  | **Plenary** | [4014](./docs/C4-244014.zip) | LS in Rel-18 Reply on LS on the maximum number of devices supported in SLPP | CT WG1 | Noted | C1-245040  To: RAN2  CC: CT4, SA2  Contact: vivo  ---  CT1 thanks RAN2’s LS regarding to the maximum number of devices that is supported in the SLPP messages (R2-2405988). CT1 would like to provide the following feedback:    For ranging and sidelink positioning, the information transmitted over NAS via payload container IE has the limitation of a maximum length of 65536 octets from CT1 protocol point of view (the maximum size of a NAS message carrying payload container IE is specified in subclause 7.2.2 of TS 24.501 for further information). The related information includes e.g. SLPP messages, the result of the positioning request. So CT1 finds out that:   * The payload container IE may not be able to encapsulate a complete SLPP message with information for other UEs (UE2-UEn) with the maximum number of devices is 256 as defined by RAN2. * The payload container IE may also not be able to encapsulate the absolute location result for other UEs (UE2-UEn) with the maximum number of devices is 256.   This limitation also applies to the messages exchanged between UEs.  To address the above issue, for RSPP supplementary messages, CT1 evaluated and achieved the consensus that the supported maximum number of other UEs (UE2-UEn) shall not be greater than 63 in R18 (see attachment), considering the associated information to be exchanged between UEs or between UE1 and LMF for ranging and sidelink positioning.  ---  Propose to note  Ulrich: we already agreed corresponding CR in last CT4 meeting |
|  | **Plenary** | [4015](./docs/C4-244015.zip) | LS in Rel-19 LS on supporting the 3xx based redirection mechanism for the "inner" resource creation | CT WG3 | Postponed | C3-244576  To: CT4  CC: CT1  Contact: Ericsson  ---  During CT3 #136, CT3 discussed and agreed the support of the 3xx based redirection mechanism for "inner" resource creation requests for all NBI and 5GC SBI APIs. Please refer to the discussion paper in **C3-244464**.  CT3 kindly asks **CT4** to consider the above agreement reached in CT3 and provide feedback (if needed).  ---  CT4 is fine with the proposal from CT3, and CT4 sees a need of corresponding 29501 CR, once that CR is agreed we can send a reply LS to CT3 |
|  | **Plenary** | [4016](./docs/C4-244016.zip) | LS in Response LS on Newly published data channel GSMA PRD TS.66 | RAN WG5 | Noted | R5-245464  To: GSMA TSG  CC: SA, SA2, SA3, SA4, SA6, CT, CT1, CT3, CT4  Contact: Huawei  ---  RAN5 would like to thank GSMA TSG for the LS (TSG56\_059) notifying the approval and publication of GSMA PRD TS.66 - IMS data channel API specification. RAN5 would also appreciate high level description in the LS about the TS.66 contents and association with GSMA PRD NG.134.  RAN5#104 meeting endorsed a new Conformance Work Item (WI) proposal for IMS Data Channel in Rel-18. The main objective of this Conformance WI is to explicitly verify signalling conformance of UE core requirements for IMS Data Channel feature defined by CT1 in TS 24.186 and TS 24.229 (SIP and SDP aspects). An additional objective is to implicitly verify core requirements for data channel media type defined by SA4 in 3GPP TS 26.114. IMS Data Channel API conformance testing is outside the scope of RAN5, hence won’t be covered in this WI.  RAN5 expects proponents of the new IMS Data Channel Conformance WI to submit the RAN5 endorsed WI proposal to the upcoming RAN Plenary#104 meeting (Melbourne, Australia 9 – 12 September 2024) for approval. Once the Conformance WI is approved, RAN5 will start IMS Data Channel conformance test development from RAN5#105 meeting (18 – 22 November 2024).  Details of conformance test methodology and environment shall be figured out during the IMS Data Channel conformance test development work. At this stage, RAN5 is not expecting to invoke JavaScript APIs for IMS Data Channel conformance testing.  ---  Propose to note |
|  |  | [4017](./docs/C4-244017.zip) | LS in Handling of TEI CRs | TSG RAN | Withdrawn | RP-240858  To:  CC: |
|  | **Plenary** | [4018](./docs/C4-244018.zip) | LS in LS on Avoiding Cross-TSG TEI | TSG RAN | OPEN | RP-241686  To: TSG CT, CT WG1, CT WG3, CT WG4, CT WG6, TSG SA, SA WG1, SA WG2, SA WG3, SA WG4, SA WG5, SA WG6  CC: RAN WG1, RAN WG2, RAN WG3, RAN WG4, RAN WG5  Contact: NEC Lab  ---  TSG RAN has had an approved TEI handling procedure since March 2021 (RAN#91e). The latest approved version is RP-240858 (attached). The main purpose of this procedure is to improve transparency and traceability of TEI work.  In line with previous inter-TSG agreement, it is not possible to trigger work in RAN WGs via TEI CRs coming from TSG SA/CT or SA/CT WGs. The same applies for the reverse direction.  However, on several occasions in the recent past, RAN WGs received LSs from a WG of another TSG, with a request to introduce changes, based on an attached TEIxx CR.  Please note that if SA (WGs) or CT (WGs) need RAN (WGs) to undertake work, a SA (WGs) or CT (WGs) Work Item with a Work Item Description (that is not only TEIxx) is required.  Please note that MCC has given guidance that the receiving RAN groups should then use  *either*   * the same SA/CT WI code that was in the incoming LS   *or*   * the SA/CT WI code **and** a RAN WI code related to that.   TSG RAN asks TSG CT (WGs) and TSG SA (WGs) to use an appropriate SA (WGs) or CT (WGs) WI code other than "TEIxx" when asking RAN (WGs) to undertake any necessary work required  ---  If it is about a missing block in the dedicated work item of previous releases and we decided to introduce it from the lastest release using TEIXX WIC, we can send LS using TELXX plus the dedicated WIC of earlier release. [PeterS to check with RAN chair whether this principle is ok.] |
|  | **Plenary** | [4019](./docs/C4-244019.zip) | LS in Rel-18 Reply LS on ECS Configuration Information | SA WG2 | Noted | S2-2408700  To: TSG SA6  CC: TSG CT1, TSG CT3, TSG CT4  Contact: Samsung  ---  SA2 thanks SA6 for the feedback to resolve the issue.  SA2 confirms that SA6 proposal can work for resolve the duplication issue of PLMN ID in the Spatial Validity Condition in TS 23.548. Accordingly, SA2 agrees to remove the list of PLMN IDs from the Spatial Validity Condition in TS 23.548. Please find the attached CR agreed in SA2 #164 meeting as a result of the corresponding discussion.  --- |
|  | **Plenary** | [4020](./docs/C4-244020.zip) | LS in Rel-18 LS Reply on support of provisioning ATSSS rules to the UE in EPC | SA WG2 | Noted | S2-2408755  To: CT1  CC: CT4  Contact: NEC  ---  SA2 thanks CT1 for the LS on support of provisioning ATSSS rules to the UE in EPC.  As the previous SA2 LS to CT1, SA2 does not change Rel-18 specifications for support of provisioning ATSSS rules to the UE in EPC.  ---  Propose to note |
|  | **Plenary** | [4021](./docs/C4-244021.zip) | LS in LS on Completion of 5WWC\_Ph2 (R18) work | SA WG2 | Noted | S2-2409022  To: BBF, CableLabs  CC: SA3, CT1, CT3, CT4  Contact: Nokia  ---  SA2 would like to inform BBF, CableLabs that SA2 (for the architecture), SA3 (for the security) and the corresponding 3GPP CT groups have completed the work on 5WWC\_Ph2. The work on 5WWC\_Ph2 corresponds as far as BBF/CableLabs is involved to Feature 2 described in clause 27.1 of TR 21.918 ('Release 18 Description; Summary of Rel-18 Work Items'). Architectural changes impacting BBF, CableLabs are specified in the latest R18 version of TS 23.316.  ---  Propose to note |
|  | **Plenary** | [4022](./docs/C4-244022.zip) | LS in Rel-18 Reply LS on MPS PDU session handling for Non-MPS subscriber | SA WG2 | Noted | S2-2409263  To: CT4  CC:  Contact: Ericsson  ---  ……  The essential issue listed above is that AMF only has the UE subscription level priority information and does not have any PDU session level priority information which may lead to the wrong message priority setting in AMF for the consequent PDU session related messages.  SA2 would like to also indicate that there is potential issue even for the case when UE is MPS-subscriber, but a particular PDU session is not applied with priority handling (e.g., the MPS priority is only set for certain slice/DNN instead of all slice/DNN of the MPS-subscriber which may leads to the “wrong” doing of the AMF when setting the message priority for the PDU session).  SA2 discussed the issue and has agreed the attached CRs to introduce the PDU Session level priority information provision from SMF to AMF.  ---  Related CRs in 4056 (and mirror), 4058 (and mirror), 4112 (and mirror), 4114 (and mirror), 4243 (and mirror) |
|  | **Plenary** | [4023](./docs/C4-244023.zip) | LS in Rel-18 LS on Subscription of UPF event via I-SMF | SA WG2 | Noted | S2-2409308  To: CT4  CC: CT3  Contact: Nokia  ---   1. CT4 observation: “whether SA2 considered both approaches above, and if so, on which criteria should the anchor SMF invoke the Nsmf\_PDUSession API vs. the Nsmf\_EventExposure to subscribe to UPF events via the I-SMF?”   SA2 answer: SA2 has revised the 23.502 CR (see attachment) to use Nsmf\_EventExposure for the anchor SMF to subscribe to UPF events via the I-SMF.   1. CT4 observation: whether the anchor SMF should be able to determine if the requested UPF events/service are supported by the I-SMF/I-UPF, before triggering a subscription towards the I-SMF, and if so, how.   SA2 answer: SMF needs to be able to determine whether relaying of subscription to UPF events is supported by the I-SMF. About what UPF events/service are supported by local UPF(s) controlled by I-SMF, the determination is up to I-SMF and not to SMF. Which means I-SMF may reject a Nsmf\_EventExposure SUBSCRIBE from the anchor SMF if one of the target local UPF(s) doesn’t support the event.   1. CT4 observation: whether the anchor SMF may need to subscribe to UPF events at the ULCL/BP and/or at the local PSA UPF;   SA2 answer: the anchor SMF may need to subscribe to UPF events at the local ULCL/BP and/or at a local PSA UPF.   1. CT4 observation: how to support subscriptions at the anchor SMF targeting ANY UE, e.g. ANY UE in a specific area, e.g. whether the anchor SMF should determine by itself the UEs present in the specific area and trigger then subscriptions, per PDU session, for the corresponding UEs?   SA2 answer: .SA2 needs more time to analyze this case and will contact CT4 when this analysis has been carried out.  --- |
|  | **Plenary** | [4024](./docs/C4-244024.zip) | LS in Reply LS on clarifications on consent management | SA WG2 | Noted | S2-2409440  To: TSG SA  CC: TSG SA3, SA6, CT3, CT4  Contact: Samsung  ---  3GPP SA2 would like to provide 3GPP SA with the input for response to LS S2-2407399 (OPG\_173\_Doc 04) as below.  For Q3 in (S2-2407399) “*For the UDM’s user consent information, are the user consent management aspects (e.g. capturing or revoking user consent from the subscriber) specified?*”, SA2 suggests that the following SA2 references are added:  *The user consent aspect for MSISDN exposure to an authenticated and authorized AF is specified in clause 4.15.10A of TS 23.502..*  *The UE LCS Privacy Profiles in UDM is described in clause 5.4 of TS 23.273. The UE LCS Privacy Profiles contains Location Privacy Indication, which can be provided and updated by the UE and/or AF as specified in clause 6.12 of TS 23.273.*  ---  Propose to note |
|  | **Plenary** | [4025](./docs/C4-244025.zip) | LS in Rel-18 Reply LS on LCS user plane connection binding to the UE | SA WG2 | Noted | S2-2409544  To: CT WG1  CC: CT WG4, SA WG3  Contact: CATT  ---  SA2 thanks CT1 for their reply LS (S2-2407423/C1-24394) on LCS user plane connection binding to the UE, SA2 agreed the CR in the attachment to align with CT1 agreements.  ---  Propose to note |
|  | **Plenary** | [4026](./docs/C4-244026.zip) | LS in Reply LS on clarification on home network triggered re-authentication | SA WG3 | Noted | S3-243412  To: CT4  CC: -  Contact: Ericsson  ---  ***Question 1****: Should the above user cases be considered as valid failure cases?*  **Answer 1**:  From an SA3 perspective, case #2 shall be treated as failure case, the (source) AMF informs the UDM with a failure response. The UDM based on local policy can decide to wait for a subsequent AMF registration in UDM (e.g. after Handover is completed) before retrying to trigger authentication with another AMF in another access or with the new AMF that registers in the same access.  In any case for cases #1 and #4, the AMF receiving the re-authentication notification message sends acknowledgement response message to the UDM.  Case #3 is understood to be the same as Case#2 since from the UDM point of view the Re-Authentication Notification is always sent to the AMF currently registered. Therefore, the AMF can respond with a failure cause which is the same as the failure cause returned by case #2.  For case #5 is a failure case and the UDM can take immediate action as already specified in 33.501, 6.1.5 (e.g. try AMF of another access).  ***Question 2****: Does SA3 see any need of differentiated handling in the UDM in each failure case? Or, what’s the expected UDM behaviour from the SA3 point of view?*  **Answer 2**: From SA3 perspective, when UDM requests to authenticate the UE, it means a situation that can only be addressed by authenticating the UE. The UDM handles the cases of the acknowledgement and the failures according to the existing specification in 33.501, 6.1.5. In the case of failures, the UDM may handle differently the failure case resulting from case #2 and case #5 above. Therefore, the AMF should respond with two different types of failure causes for the above scenarios.  ---  Related CRs in 4051, 4052, 4139 (and mirror), 4162 (and mirror)  Reply LS in 4141 |
|  | **Plenary** | [4027](./docs/C4-244027.zip) | LS in Rel-18 LS on aggregation and other N32 topics in the context of mediated roaming | SA WG3 | Noted | S3-243676  To: GSMA 5GMRR  CC: CT4  Contact: BSI  ---  SA3 thanks GSMA 5GMRR for their LS reply (S3-242364) on the introduction of the domain ipxnetwork.org, and would like to provide the following responses and clarifications  ……  ---  Propose to note |
|  | **Plenary** | [4028](./docs/C4-244028.zip) | LS in LS on GSMA non-compliance with 3GPP specifications on 5G Roaming over Roaming Intermediaries | SA WG3 | Noted | S3-243677  To: 3GPP TSG SA  CC: CT4  Contact: Cable Labs  ---  SA3 would like to inform TSG SA that GSMA provided LS S3-242706 on 5G roaming over roaming intermediaries.  SA3 specified an application layer security solution, namely PRINS, for 5G roaming over roaming intermediaries in Release 15, based on the requirements from GSMA on the end-to-end signalling security between HPLMN and VPLMN. While GSMA 5GMRR maintains that such end-to-end signalling security is its ultimate objective (see S3-234990), it recently informed SA3 that it has developed another type of solution for 5G roaming, so called "hop-by-hop TLS" (see S3-242706). Such hop-by-hop solution does not comply with TS 33.501, which mandates application layer end-to-end security using PRINS for roaming over roaming intermediaries.  SA3 would like to ask TSG SA for guidance on how to resolve such issue with GSMA.  ---  Propose to note |
|  | **Plenary** | [4029](./docs/C4-244029.zip) | LS in Rel-18 Reply LS on Resource content filters | SA WG3 | Noted | S3-243678  To: CT4  CC: -  Contact: Samsung  ---  SA3 thanks CT4 for their LS on Resource content filters.  SA3 has reviewed the attached TR, has discussed the extension of Access Tokens as proposed in Solution #1 and #6 of 3GPP TR 29.857, and finds no security issues with these solutions.  However, SA3 would like to point out that from SA3 perspective, C4-225023 and C4-213261 captured in clause 4 of TR 29.857 during the specification of SBA security were addressed by SA3.See also SA3 reply in S3-211581 (SA3 #110) and S3-223860 as the final conclusion of the problem identified by GSMA. Further, CT4 to note that, the solution #6 in TR 29.857 is only applicable for the particular token type, which is captured in the TS 33.501 clause 13.4.1.1.2 Access token request for accessing services of a specific NF Service Producer instance / NF Service Producer service instance. Because the Filter ID is not a common one that can be used for all the instances for a NFp type implicitly.  In summary, from SA3 perspective resource content filters may not be required, however it is up to CT4 to decide whether to specify resource content filters considering 5G system benefits to specific NFp instances.  ---  Related pCR in 4046 |
|  | **Plenary** | [4030](./docs/C4-244030.zip) | LS in Rel-18 LS Reply on Newly Published data channel GSMA PRD TS.66 | SA WG4 | Noted | S4-241684  To: GSMA TSG  CC: SA2, SA3, SA4, SA6, RAN5, SA, SA1, CT, CT1, CT3 & CT4  Contact: Huawei  ---  SA4 thanks GSMA for the LS on newly published data channel GSMA PRD TS.66 (S4-241435) and would like to provide the feedback as following:   * **Question for SA4:** GSMA would like to know, if, with reference to point 4 in the body of the LS, SA4 believes that there is the need to develop JavaScript APIs to control media stream?   The content of point 4 is as below:  *Video pipeline and GSMA IR.94 extensions (new PRD) document would be the extension of GSMA IR.94 and would provide JavaScript API allowing to manipulate programmatically video media type. This work might be of interest to 3GPP SA4.*  **Reply:** SA4 has been working on the IMS-based AR Real Time Communication (see 3GPP TS 26.264), and Avatar based on IMS network (see 3GPP TR 26.813). These services require data channel application to capture, process and transport the video media, and the service logic should be controlled by the data channel application. Therefore, SA4 think that the JavaScript API for video pipeline is valuable.   * **Questions for SA4 and SA6:** GSMA would like to ask if there are plans to develop a reference implementation to test IMS Data Channel services.   **Reply:** There are no plans to develop JavaScript code in SA4.  ---  Propose to note |
|  | **Plenary** | [4031](./docs/C4-244031.zip) | LS in LS reply on improved KPIs involving end-to-end data volume transfer time analytics | SA WG5 | Noted | S5-244658  To: RAN3  CC: SA2, CT3, CT4, RAN2  Contact: Ericsson  ---  SA5 thanks RAN3 for its LS on improved KPIs involving end-to-end data volume transfer time analytics in document R3-243941.  SA5 would like to response to the questions with the following:  RAN3 evaluated carefully the two specifications and made the following observations with respect to TS 28.552 and TS 28.558:   1. TS 28.558 does not define M4 measurement. 2. There seems to be a misalignment between the two specifications with respect to which entity performs the measurements. In particular, RAN3 identified the following cases:  * The “Average delay DL air-interface” is measured by the gNB-DU in TS 28.552 and by NRCellCU (for non-split and 2-split scenario) and GNBCUUPFunction (for 3-split scenario) in TS 28.558. * The “Average delay DL in gNB-DU” is measured by the gNB-DU in TS 28.552 and by NRCellCU (for non-split and 2-split scenario) and GNBCUUPFunction (for 3-split scenario) in TS 28.558. * The “UL PDCP SDU Loss Rate” is measured by the GNBCUUPFunction and NRCellCU in TS 28.552 and by GNBCUUPFunction in TS 28.558.   From RAN3 perspective, the above misalignment should be corrected in TS 28.558 based on TS 28.552.  From SA5 perspective, the misalignment between TS28.558 and TS 28.552 has been corrected in TS28.558v18.1.0. The missing M4 measurement has be added into TS28.558 as attached.  For the following additional RAN3 observations on the S-TMSI identifier,  *Also, RAN3 made the following observations concerning the S-TMSI identifier:*   * *“S-TMSI” should be modified to “5G-S-TMSI”.* * *S-TMSI is not available in the gNB-DU and in the gNB-CU-UP.* * *S-TMSI may not be always available in the gNB-CU-CP.*   SA5 would like to thank RAN3 for the observation. NR MDT Trace Record Content and Trace Record Header are specified in TS32.423. SA5 agree that there is a benefit to have a (temporary) identifier in the management-based MDT measurement report. This identity shall be unique within the lifetime of the measurement session. So, some data analytics function (e.g., AIML related function) can have a better understanding that the collected data sets are measured from the same source. Therefore, it would be good to provide some kind of identifier to indicate the measurement was done in the same or different UE.  The bullet g specified in TS28.558 is the “Measured UE Identifier”. It is Trace Target which is sent in Trace Activation. As specified in TS 32.422, IMSI or IMEISV or IMEI-TAC or SUPI is used as Trace Target in signalling-based MDT activation procedure in 5GC and NG-RAN, and the Trace Target for management-based NR MDT activation has been defined in TS 28.622. So, the “Measured UE Identifier” parameter specified in TS28.558 is not applicable to NG-RAN UE level (MDT) measurements. Therefore, SA5 has agreed to add a clarification in TS28.558 that the measurement bullet g) is only applicable for management-based activation of 5GC UE level measurement collection, and the bullet g) in NG-RAN UE level measurements are set to “N/A” instead of “S-TMSI”, please see the agreed CRs attached.  ---  Propose to note |
|  | **Plenary** | [4032](./docs/C4-244032.zip) | LS in LS reply on MDT configuration control in NR-DC | SA WG5 | Postponed | S5-244659  To: RAN3, CT4  CC:  Contact: Ericsson  ---  SA5 thanks RAN3 for its LS on MDT configuration control in NR-DC in document R3-243937.  SA5 has discussed and agreed to specify a mNOnly indicator in mdtConfig data type. This attribute is only applicable to signalling based NR MDT procedure.  According to 3GPP TS21.801, Annex K, ‘master’ is non-inclusive term. The possible alternative term is ‘main’. Therefore, SA5 has specified that “MN-only” as “Main Node Only”. SA5 Kindly ask RAN3 to take this into consideration.  In addition, this change may have an impact on CT4. SA5 would like to ask CT4 to update corresponding specification accordingly.  ---  Corresponding CRs to be submitted to the next CT4 meeting, when those CRs are handled we can send reply. |
|  | **Plenary** | [4033](./docs/C4-244033.zip) | LS in Rel-18 LS reply on 5G Trace to support UE level measurement | SA WG5 | OPEN | S5-244661  To: CT4  CC: CT3  Contact: China Mobile, Intel  ---  **Q1: *“How is the 5GC UE level measurements collection on SMF triggered/activated?***  **SA5’s answer: SA5 will only keep the measurements collection activation specified in TS 32.422 to avoid the conflict and confusion. The attached SA5 CR (S5-243627) to remove the activation mechanism in TS 28.558 has been agreed in SA5.**  **Q2: “*What is the meaning of the following Information:***  …  **SA5’s answer:**   1. **The “Trace reporting format” indicates reporting format of the Trace data, which is either streaming or file. However, the same information can be carried by the “Trace Collection Entity (TCE) IP Address” and “Trace Reporting Consumer URI” parameters, therefore the “Trace reporting format” parameter is not needed anymore.**   **The attached CR (S5-243630/S5-243631) to remove “Trace reporting format” parameter from TS 32.422 has been agreed in SA5.**   1. **The EP\_N3 and EP\_N9 are not necessarily the additoinal types of NE for 5GC UE level measurements collection using Trace mechanism defined in TS 32.422. But the measurements are collected and reported per EP\_N3 and EP\_N3 interface.** 2. **The N4 Session Identifier is not used in signalling-based activation of 5GC UE level measurements collection, but only used for management-based activation.**   **The attached CR (S5-245129/S5-245130) to clarify this in TS 28.558 has been agreed in SA5.**  **Q3: *“How is the 5GC UE level measurements collection on UPF triggered/activated? Can SMF re-use the existing Per QoS Flow per QoS Measurement mechanism as defined in clause 5.33.3.2 of 3GPP TS 23.501?”***  **SA5’s answer: SA5 needs to correlate the UE level measurements collected by UPF and other NFs/nodes for one specific UE, and using the TR/TRSR under the Trace mechanism defined by TS 32.422 can support this correlation.**  **The existing Per QoS Flow per QoS Measurement mechanism defined in clause 5.33.3.2 of 3GPP TS 23.501 cannot support the correlation with the measurements collected by other NFs/nodes for the UE.**  --- |
|  | **Plenary** | [4034](./docs/C4-244034.zip) | LS in Rel-19 Reply LS on the stage 2 aspects of MINT\_Ph2 | TSG SA | Noted | SP-241013  To: CT1, SA1  CC: SA2, TSG CT, CT4  Contact: China Telecom  ---  TSG SA thanks CT1 for the LS (SP-240538 / C1-242675) on the stage 2 aspects of MINT\_Ph2.  TSG SA has considered the input from SA2 (SP-240558 / S2-2407313) and discussed the matter in their SA#104 meeting.  TSG SA kindly asks CT1 to perform a study for MINT\_Ph2\_EPS. The context of the proposed scope differs compared to the Rel-17 MINT study in overall system aspects in that 4G/EPS is now the target system.  Disaster roaming in case of 5G RAN failure between 5GS and EPS is in the scope for this study. EPS to EPS disaster roaming is out of scope. SA believes that the scope needs to be limited to 4G/EPS only without CS domain.  The study scope needs to take into account the architectural relationship between the 5GS and EPS networks, including EPS interworking with 5GS as defined in TS 23.501. The study also needs to consider how to prevent signalling overload when UEs perform disaster roaming to EPS and when UEs return to 5GS.  Specifically in the following SA1 requirement:  *Subject to regulatory requirements, operator's policy or UE capabilities, the 3GPP system shall be able to support a UE, with 5G-only national roaming access to a VPLMN,* ***to obtain 4G connectivity service****(e.g.* ***voice call,****mobile data service)* ***from that VPLMN****in the area where a Disaster Condition applies*  It needs to be clarified that the UE still receives service from IMS in HPLMN and only connectivity from VPLMN.  Before concluding the study, CT1 should consult SA2 on the architectural impacts and consult SA for final decision on how to proceed with normative work. Based on Rel-17 MINT work, SA believes there will be architectural impacts that are under SA2 specifications scope.  ---  Propose to note |
|  | **Plenary** | [4035](./docs/C4-244035.zip) | LS in Rel-18 Reply LS on data plane control by roaming hubs | TSG SA | Noted | SP-241014  To: GSMA 5GMRR  CC: 3GPP SA WG1, 3GPP SA WG2, 3GPP SA WG3, 3GPP SA WG5, 3GPP CT WG4  Contact: Nokia  ---  3GPP TSG SA thanks GSMA 5GMRR for their LS on data plane control by roaming hubs.  3GPP TSG SA reviewed the requirements listed in the LS from GSMA 5GMRR and would like to inform GSMA 5GMRR that there was no corresponding work in 3GPP WGs in Rel-18 and that there is currently no corresponding planned work in 3GPP WGs for Rel-19.  3GPP TSG SA would like to remind GSMA 5GMRR that work in 3GPP is based on direct contributions made by 3GPP members.  3GPP TSG SA expects GSMA 5GMRR to document appropriate architecture and service flows for data plane control by roaming hubs in GSMA’s roaming specifications.  ---  Propose to note |
|  | **Plenary** | [4036](./docs/C4-244036.zip) | LS in Rel-18 LS on Security considerations for MPQUIC | TSG SA | Noted | SP-241015  To: IETF QUIC WG  CC: SA3, SA2, CT, CT4  Contact: Intel  ---  3GPP TSG SA would like to bring to the attention of IETF QUIC WG that the 3GPP Release 18 functionality for Access Traffic Steering, Switching and Splitting (ATSSS) has a dependency on the IETF draft on "Multipath Extension for QUIC" ([draft-ietf-quic-multipath](https://datatracker.ietf.org/doc/draft-ietf-quic-multipath/)), as specified in 3GPP TS 23.501 clause 5.32.6.2.2.  3GPP TSG SA came to the realization that section 11 (Security Considerations) in the latest version of the aforementioned draft (draft-ietf-quic-multipath-08) is currently still TBD.  Given that Release 18 in 3GPP is now frozen, TSG SA would like to kindly ask IETF QUIC WG to provide a new version of the IETF draft on "Multipath Extension for QUIC" to update section 11 (“Security Considerations”).  ---  Propose to note |
|  | **Plenary** | [4037](./docs/C4-244037.zip) | LS in Reply LS on Newly published data channel GSMA PRD TS.66 | TSG SA | Noted | SP-241404  To: GSMA TSG  CC:  Contact: InterDigital  Propose to note |
|  | **Plenary** | [4038](./docs/C4-244038.zip) | LS in LS on maintaining specification consistency between GSMA and 3GPP on 5G roaming over roaming intermediaries. | TSG SA | Noted | SP-241405  To: GSMA 5GMRR, GSMA NRG, GSMA NG  CC: 3GPP SA WG1, 3GPP SA WG2, 3GPP SA WG3, 3GPP SA WG5, 3GPP CT WG4  Contact: NTT DOCOMO  ---  3GPP TSG SA would like to emphasise the importance of maintaining consistency between GSMA and 3GPP specifications on 5G roaming over roaming intermediaries for operators and the ecosystems.  It is TSG SA's understanding that (a) Prior to the formation of 5GMRR, GSMA defined the requirement of end-to-end protection of signalling messages between VPLMN and HPLMN in 5G, based on which SA3 specified and mandated the use of the application layer security solution PRINS for 5G roaming over roaming intermediaries; and (b) for 5G, GSMA specifies deployment options and models, as well as the interconnect architecture, while all specification of network function and SEPP behaviour is done within 3GPP.  3GPP security specifications provide a mechanism to fulfil the security requirements provided by GSMA. 3GPP TSG SA would like to point out that certain behaviours of interconnect nodes may influence the functionality and behaviour of network functions. In order to ensure compatibility of the ongoing 5G development in 3GPP with the deployment options and models defined by the GSMA, it is necessary that the behaviour of the intermediaries is well-defined, specified and aligned with the behaviour of the network functions.  3GPP specified an application layer security solution, namely PRINS, for 5G roaming over roaming intermediaries in Release 15, based on the requirements from GSMA on the end-to-end signalling security between HPLMN and VPLMN. While GSMA 5GMRR maintains that such end-to-end signalling security is its ultimate objective, it recently informed 3GPP that it has developed another type of solution for 5G roaming, so called "hop-by-hop TLS". Such hop-by-hop solution does not comply with TS 33.501 and does not meet the end-to-end security requirements for 5G roaming (see SP-241340), which mandates application layer end-to-end security using PRINS for roaming over roaming intermediaries.  3GPP TSG SA kindly asks GSMA 5GMRR and its member companies to work closely in and with the relevant 3GPP groups, especially SA2, SA3, and CT4 to avoid market fragmentation and incompatibilities.  ---  CT4 is inline with SA. |
| **4.2** | **Outgoing liaisons** |  |  |  |  |  |
|  | **Plenary** | [4105](./docs/C4-244105.zip) | LS out Rel-19 LS on FS\_IMS\_RES | China Telecom Corporation Ltd. |  | To: SA2  CC: CT1, CT3 |
|  | **Plenary** | [4141](./docs/C4-244141.zip) | LS out Reply LS on clarification on home network triggered re-authentication | ZTE |  | To: SA3  CC: |
|  | **Plenary** | [4203](./docs/C4-244203.zip) | LS out Rel-19 LS on Multicast MBS session restoration procedure for N3mb path failure | Nokia |  | R3-243888  To: RAN3  CC: SA2 |
|  |  | [4320](./docs/C4-244320.zip) | LS out Rel-18 Reply LS on N32-f lifetime and reconnection | NTT DOCOMO | Postponed | To: GSMA 5GMRR  CC: SA3  The keep alive solution regarding the timer need to be handled in the next ct4 meeting. The reply will be sent when we have a complete solution. |
|  | **Plenary** | [4339](./docs/C4-244339.zip) | LS out Rel-19 LS on RAT utilization control information for multiple PLMN | Ericsson |  | To: CT1  Cc: SA2 |
| **5** | **Check sof Approved Output Documents** |  |  |  |  |  |
|  |  | 4011 | other Output Documents | CT4 Chair |  |  |
| **6** | **OpenAPI version and ExternalDocs Update** |  |  |  |  | This agenda item is used for allocating OpenAPI version and ExternalDocs update CRs for all releases |
| **6.1** | **Rel-15 OpenAPI version and ExternalDocs Update CRs** |  |  |  |  |  |
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| **6.2** | **Rel-16 OpenAPI version and ExternalDocs Update CRs** |  |  |  |  |  |
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| **6.3** | **Rel-17 OpenAPI version and ExternalDocs Update CRs** |  |  |  |  |  |
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| **7** | **Tdocs not fit into other agenda items** |  |  |  |  |  |
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| **8** | **Release 8 and earlier**  **All work items** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **9** | **Release 9**  **All work items** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **10** | **Release 10**  **All work items** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **11** | **Release 11**  **All work items** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **12** | **Release 12**  **All work items** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **13** | **Release 13**  **All work items** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **14** | **Release 14**  **All work items** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **15** | **Release 15**  **All work items** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **16** | **Release 16**  **All work items** |  |  |  |  |  |
|  | **Plenary** | [4145](./docs/C4-244145.zip) | CR 29.510 1057 Rel-16 Correct Links table | ZTE |  | WI TEI16  CAT F |
|  | **Plenary** | [4146](./docs/C4-244146.zip) | CR 29.510 1058 Rel-17 Correct Links table | ZTE |  | WI TEI16  CAT A |
|  | **Plenary** | [4147](./docs/C4-244147.zip) | CR 29.510 1059 Rel-18 Correct Links table | ZTE |  | WI TEI16  CAT A |
|  | **Plenary** | [4148](./docs/C4-244148.zip) | CR 29.510 1060 Rel-19 Correct Links table | ZTE |  | WI TEI16  CAT A |
| **17** | **Release 17** |  |  |  |  |  |
| **17.1** | **Rel-17 work planning** |  |  |  |  |  |
| **17.2** | **New WIDs for Rel-17** |  |  |  |  |  |
| **17.3** | **Revised WIDs for Rel-17** |  |  |  |  |  |
| **17.4** | **TEI17 [TEI17]** |  |  |  |  |  |
|  | **Breakout** | [4040](./docs/C4-244040.zip) | CR 29.503 1310 Rel-17 UeIdentifiers alignment | Nokia |  | WI TEI17  CAT F |
|  | **Breakout** | [4041](./docs/C4-244041.zip) | CR 29.503 1311 Rel-18 UeIdentifiers alignment | Nokia |  | WI TEI17  CAT A |
|  | **Breakout** | [4042](./docs/C4-244042.zip) | CR 29.503 1312 Rel-19 UeIdentifiers alignment | Nokia |  | WI TEI17  CAT A |
|  | **Main** | [4204](./docs/C4-244204.zip) | CR 29.281 0132 Rel-17 Fixing the GTP-U Tunnel Status Information and Recovery Time Stamp IEs | Nokia |  | WI TEI17, SPOCUP, EGTPUR  CAT F |
|  | **Main** | [4205](./docs/C4-244205.zip) | CR 29.281 0133 Rel-18 Fixing the GTP-U Tunnel Status Information and Recovery Time Stamp IEs | Nokia |  | WI TEI17, SPOCUP, EGTPUR  CAT A |
|  | **Main** | [4206](./docs/C4-244206.zip) | CR 29.281 0134 Rel-19 Fixing the GTP-U Tunnel Status Information and Recovery Time Stamp IEs | Nokia |  | WI TEI17, SPOCUP, EGTPUR  CAT A |
| **17.5** | **Service Based Interface Protocol Improvements Release 17 [SBIProtoc17]** |  |  |  |  |  |
|  | **Plenary** | [4253](./docs/C4-244253.zip) | CR 29.510 1076 Rel-17 DataSetId Usage Essential Correction | Ericsson |  | WI SBIProtoc17  CAT F  Chair’s note from CT4#124: We need to discuss before next CT4 meeting about a potential Rel-17 fix, where the UDR only registers "APPLICATION" and/or "POLICY", and the list of subsets it actually supports. |
|  | **Plenary** | [4254](./docs/C4-244254.zip) | CR 29.510 1077 Rel-18 DataSetId Usage Essential Correction | Ericsson |  | WI SBIProtoc17  CAT A |
|  | **Plenary** | [4255](./docs/C4-244255.zip) | CR 29.510 1078 Rel-19 DataSetId Usage Essential Correction | Ericsson |  | WI SBIProtoc17  CAT A |
| **17.6** | **Multi-device and multi-identity enhancements [MuDe]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.7** | **Stage-3 5GS NAS protocol development 17 [5GProtoc17] [5GProtoc17-non3GPP]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.8** | **Protocol enhancements for Mission Critical Services [MCProtoc17]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.9** | **Stage-3 SAE Protocol Development [SAES17] [SAES17-CSFB] [SAES17-non3GPP]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.10** | **Enhancement for the 5G Control Plane Steering of Roaming for UE in CONNECTED mode [eCPSOR\_CON]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.11** | **IMS Stage-3 IETF Protocol Alignment [IMSProtoc17]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.12** | **CT aspects of Enhancements to Mission Critical Data [eMCData3]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.13** | **Stage 3 of Multimedia Priority Service (MPS) Phase 2 [MPS2]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.14** | **PFD management enhancement [pfdManEnh]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.15** | **BEst Practice of PFCP [BEPoP]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.16** | **Restoration of PDN Connections in PGW-C/SMF Set [RPCPSET]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.17** | **Stage 3 of eMONASTERY2 [eMONASTERY2]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.18** | **CT aspects of** **5GC architecture for satellite networks [5GSAT\_ARCH-CT]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.19** | **CT aspects of Enhanced MCCI with LMR Systems [eMCCI\_CT]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.20** | **CT aspects of AKMA [AKMA-CT]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.21** | **PAP/CHAP protocols usage in 5GS [PAP\_CHAP]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.22** | **Service-based support for SMS in 5GC [SMS\_SBI]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.23** | **Enhancement of Inter-PLMN Roaming [EoIPR]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.24** | **Mission Critical system migration and interconnection [MCSMI\_CT]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.25** | **CT aspects of Integration of GBA into SBA [GBA\_5G]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.26** | **Reliable Data Service Serialization Indication [RDSSI\_CT]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.27** | **CT aspects for Enabling Edge Applications [EDGEAPP]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.28** | **CT aspects of eNPN [eNPN]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.29** | **CT aspects of 5G\_eLCS\_ph2 [5G\_eLCS\_ph2]** |  |  |  |  |  |
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| **17.30** | **CT aspects for ID\_UAS [ID\_UAS]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.31** | **CT aspects of support of enhanced Industrial IoT [IIoT]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.32** | **CT aspects of eV2XAPP [eV2XAPP]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.33** | **CT aspects of 5G eEDGE [eEDGE\_5GC]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.34** | **Stage 3 for Enhancement of Network Slicing Phase 2 [eNS\_Ph2]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.35** | **Start of Pause of Charging via User Plane [SPOCUP]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.36** | **CT aspects of ATSSS\_Ph2 [ATSSS\_Ph2]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.37** | **CT aspects of eNA\_Ph2 [eNA\_Ph2]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.38** | **CT aspects of proximity based services in 5GS [5G\_ProSe]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.39** | **CT aspects of Enabling Multi-USIM Devices [MUSIM]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.40** | **CT aspects on TEI17\_SPSFAS [TEI17\_SPSFAS]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.41** | **CT aspects on TEI17\_SAPES [TEI17\_SAPES]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.42** | **CT aspects on TEI17\_DCAMP [TEI17\_DCAMP]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.43** | **CT aspects on TEI17\_GEM [TEI17\_GEM]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.44** | **CT3 aspects of N7 Interfaces Enhancements to Support GERAN and UTRAN [TEI17\_NIESGU]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.45** | **UICC-terminal interface testing for UEs with non-removable UICCs [nrUICC\_UEConTest]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.46** | **CT aspects of Support of different slices over different Non 3GPP access [TEI17\_N3SLICE]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.47** | **CT aspects of the architectural enhancements for 5G multicast-broadcast services [5MBS]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.48** | **CT Aspects of Application Layer Support for Uncrewed Aerial Systems (UAS) [UASAPP]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.49** | **CT aspects of eV2XARC\_Ph2 [eV2XARC\_Ph2]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.50** | **CT aspects of MCOver5GS [MCOver5GS]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.51** | **Enhancement of 5G PCC related services in Rel-17 [en5GPccSer17]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.52** | **Enhancements of 3GPP Northbound Interfaces and Application Layer APIs [NBI17]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.53** | **Stage 3 aspects of enh3MCPTT [enh3MCPTT-CT]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.54** | **Enhanced Service Enabler Architecture Layer for Verticals [eSEAL]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.55** | **System enhancement for redundant PDU session [TEI17\_SE\_RPS]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.56** | **CT aspects of Support for Minimization of service Interruption [MINT]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.57** | **IMS voice service support and network usability guarantee for UE’s E-UTRA capability disabled scenario in SA 5GS [ING\_5GS]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.58** | **CT aspects for enabling MSGin5G Service [5GMARCH]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.59** | **Restoration of profiles related to UDR [ReP\_UDR]** |  |  |  |  |  |
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| **17.60** | **Enhancement on the GTP-U entity restart [EGTPUR]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.61** | **Multi-device enhancements for device transfers [MuDTran]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.62** | **CT aspects of Architecture Enhancement for NR Reduced Capability Devices [ARCH\_NR\_REDCAP]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.63** | **Enhancements of 3GPP profiles for cryptographic algorithms and security protocols [eCryptPr]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.64** | **IMS Optimization for HSS Group ID in an SBA environment [TEI17\_IMSGID]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.65** | **CT aspects of NB-IoT/eMTC Non-Terrestrial Networks in EPS [IoT\_SAT\_ARCH\_EPS]** |  |  |  |  |  |
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| **17.66** | **Repository for the 3GPP Allocated Port Numbers for New 3GPP Interfaces [PortAl]** |  |  |  |  |  |
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| **17.67** | **Non-Seamless WLAN offload Authentication in 5GS [NSWO\_5G]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.68** | **CT aspects of AKMA TLS protocol profiles [AKMA\_TLS]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.69** | **Modifying PASSporT signing and verification [SPECTRE\_Ph3]** |  |  |  |  |  |
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| **17.70** | **CT aspects of enhancement of RAN Slicing for NR [NRslice]** |  |  |  |  |  |
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| **17.71** | **CT aspects of 5GMS AF Event Exposure [EVEX]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.72** | **Update of conformance test specifications to Rel-17 [UEConTest\_R17]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **17.73** | **Any other Rel-17 Work item or Study item** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18** | **Release 18** |  |  |  |  |  |
| **18.1** | **Rel-18 work planning** |  |  |  |  |  |
| **18.2** | **New WIDs for Rel-18** |  |  |  |  |  |
| **18.3** | **Revised WIDs for Rel-18** |  |  |  |  |  |
| **18.4** | **TEI18 [TEI18]** |  |  |  |  |  |
|  | **Main** | [4056](./docs/C4-244056.zip) | CR 29.502 0798 Rel-18 PDU Session Priority | Ericsson, Nokia |  | WI 5GS\_Ph1-CT, TEI18  CAT F  Overlapping with 4114 |
|  | **Main** | [4057](./docs/C4-244057.zip) | CR 29.502 0799 Rel-19 PDU Session Priority | Ericsson, Nokia |  | WI 5GS\_Ph1-CT, TEI18  CAT A |
|  | **Main** | [4114](./docs/C4-244114.zip) | CR 29.502 0807 Rel-18 PDU Session Priority | ZTE |  | WI SBIProtoc18  CAT F |
|  | **Main** | [4115](./docs/C4-244115.zip) | CR 29.502 0808 Rel-19 PDU Session Priority | ZTE |  | WI SBIProtoc18  CAT A |
|  | **Main** | [4058](./docs/C4-244058.zip) | CR 29.518 1118 Rel-18 PDU Session Priority | Ericsson, Nokia |  | WI 5GS\_Ph1-CT, TEI18  CAT F  Overlapping with 4112, 4243 |
|  | **Main** | [4059](./docs/C4-244059.zip) | CR 29.518 1119 Rel-19 PDU Session Priority | Ericsson, Nokia |  | WI 5GS\_Ph1-CT, TEI18  CAT A |
|  | **Main** | [4112](./docs/C4-244112.zip) | CR 29.518 1122 Rel-18 PDU Session Priority | ZTE |  | WI SBIProtoc18  CAT F |
|  | **Main** | [4113](./docs/C4-244113.zip) | CR 29.518 1123 Rel-19 PDU Session Priority | ZTE |  | WI SBIProtoc18  CAT A |
|  | **Main** | [4243](./docs/C4-244243.zip) | CR 29.518 1129 Rel-18 PDU session priority | Huawei |  | WI TEI18  CAT F |
|  | **Main** | [4244](./docs/C4-244244.zip) | CR 29.518 1130 Rel-19 PDU session priority | Huawei |  | WI TEI18  CAT A |
|  | **Main** | [4098](./docs/C4-244098.zip) | CR 29.274 2114 Rel-18 MDT Configuration for immediate MDT | Huawei |  | WI TEI18, NR\_SON\_MDT-Core  CAT F |
|  | **Main** | [4099](./docs/C4-244099.zip) | CR 29.274 2115 Rel-19 MDT Configuration for immediate MDT | Huawei |  | WI TEI18, NR\_SON\_MDT-Core  CAT A |
|  | **Main** | [4100](./docs/C4-244100.zip) | CR 29.274 2116 Rel-18 Support of Trace Reporting Consumer URI | Huawei |  | WI TEI18, NR\_SON\_MDT-Core  CAT F |
|  |  | 4101 | CR 29.274 2117 Rel-19 Support of Trace Reporting Consumer URI | Huawei | revised to C4-244251 | Revision of C4-244251  WI TEI18, NR\_SON\_MDT-Core  CAT A |
|  | **Main** | [4251](./docs/C4-244251.zip) | CR 29.274 2117 Rel-19 Support of Trace Reporting Consumer URI | Huawei |  | WI NR\_SON\_MDT-Core, TEI18  CAT A |
|  | **Plenary** | [4110](./docs/C4-244110.zip) | CR 29.500 0449 Rel-18 Access Token Claim Mismatch | ZTE | Not Pursued | WI TEI18, 5G\_eSBA  CAT F |
|  | **Plenary** | [4111](./docs/C4-244111.zip) | CR 29.500 0450 Rel-19 Access Token Claim Mismatch | ZTE | Revised to C4-244334 | WI TEI18, 5G\_eSBA  CAT A |
|  |  | [4334](./docs/C4-244334.zip) | CR 29.500 0450 Rel-19 Access Token Claim Mismatch | ZTE |  | WI TEI19, 5G\_eSBA  CAT F |
|  | **Plenary** | [4165](./docs/C4-244165.zip) | CR 29.571 0588 Rel-18 Update on access restrictions for satellite access | Huawei | Revised to C4-244335 | WI TEI18, IoT\_SAT\_ARCH\_EPS  CAT F |
|  |  | [4335](./docs/C4-244335.zip) | CR 29.571 0588 Rel-18 Update on access restrictions for satellite access | Huawei | Agreed | The only change is to indicate the SA2 CR which makes this change, and editorial  WOP |
|  | **Plenary** | [4166](./docs/C4-244166.zip) | CR 29.571 0589 Rel-19 Update on access restrictions for satellite access | Huawei | Revised to C4-244336 | WI TEI18, IoT\_SAT\_ARCH\_EPS  CAT A |
|  |  | [4336](./docs/C4-244336.zip) | CR 29.571 0589 Rel-19 Update on access restrictions for satellite access | Huawei | Agreed | The only change is to indicate the SA2 CR which makes this change, and editorial  WOP |
|  | **Main** | [4189](./docs/C4-244189.zip) | CR 29.518 1124 Rel-18 Correction of unavailability period | Huawei |  | WI TEI18, 5GSAT\_Ph2  CAT F |
|  | **Main** | [4190](./docs/C4-244190.zip) | CR 29.518 1125 Rel-19 Correction of unavailability period | Huawei |  | WI TEI18, 5GSAT\_Ph2  CAT A |
|  | **Plenary** | [4201](./docs/C4-244201.zip) | CR 29.501 0164 Rel-18 Restore deleted clause | Nokia, MCC | Revised to C4-244332 | WI TEI18  CAT F |
|  |  | [4332](./docs/C4-244332.zip) | CR 29.501 0164 Rel-18 Restore deleted clause | Nokia, Ericsson, MCC | Agreed | The only change is to add supporting company  WOP |
|  | **Plenary** | [4202](./docs/C4-244202.zip) | CR 29.501 0165 Rel-19 Restore deleted clause | Nokia, MCC | Revised to C4-244333 | WI TEI18  CAT A |
|  |  | [4333](./docs/C4-244333.zip) | CR 29.501 0165 Rel-19 Restore deleted clause | Nokia, Ericsson, MCC | Agreed | The only change is to add supporting company  WOP |
|  | **Main** | [4261](./docs/C4-244261.zip) | CR 29.518 1131 Rel-18 Correction on LCS Correlation ID as UE Context ID | Ericsson |  | WI TEI18  CAT F |
|  | **Main** | [4262](./docs/C4-244262.zip) | CR 29.518 1132 Rel-19 Correction on LCS Correlation ID as UE Context ID | Ericsson |  | WI TEI18  CAT A |
|  | **Breakout** | [4290](./docs/C4-244290.zip) | CR 23.632 0049 Rel-18 Not Cancelling MME registration upon EPS to 5GS mobility | Nokia |  | WI TEI18, 5GS\_Ph1-CT  CAT F |
| **18.5** | **CT aspects of NBI18 [NBI18]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.6** | **CT aspects of SBIProtoc18 [SBIProtoc18]** |  |  |  |  |  |
|  |  | [4112](./docs/C4-244112.zip) | CR 29.518 1122 Rel-18 PDU Session Priority | ZTE | Moved to 18.4 | WI SBIProtoc18  CAT F |
|  |  | [4113](./docs/C4-244113.zip) | CR 29.518 1123 Rel-19 PDU Session Priority | ZTE | Moved to 18.4 | WI SBIProtoc18  CAT A |
|  |  | [4114](./docs/C4-244114.zip) | CR 29.502 0807 Rel-18 PDU Session Priority | ZTE | Moved to 18.4 | WI SBIProtoc18  CAT F |
|  |  | [4115](./docs/C4-244115.zip) | CR 29.502 0808 Rel-19 PDU Session Priority | ZTE | Moved to 18.4 | WI SBIProtoc18  CAT A |
|  | **Breakout** | [4142](./docs/C4-244142.zip) | CR 29.503 1326 Rel-18 Correction of 3xx response | ZTE |  | WI SBIProtoc18  CAT F |
|  | **Breakout** | [4143](./docs/C4-244143.zip) | CR 29.503 1327 Rel-19 Correction of 3xx response | ZTE |  | WI SBIProtoc18  CAT A |
|  | **Plenary** | [4238](./docs/C4-244238.zip) | CR 29.573 0207 Rel-18 Autonomous correlation of N32-c and N32-f | NTT DOCOMO | Revised to C4-244330 | WI SBIProtoc18  CAT F |
|  |  | [4330](./docs/C4-244330.zip) | CR 29.573 0207 Rel-18 Autonomous correlation of N32-c and N32-f | NTT DOCOMO |  |  |
|  | **Plenary** | [4239](./docs/C4-244239.zip) | CR 29.573 0216 Rel-19 Autonomous correlation of N32-c and N32-f | NTT DOCOMO | Revised to C4-244331 | WI SBIProtoc18  CAT A |
|  |  | [4331](./docs/C4-244331.zip) | CR 29.573 0216 Rel-19 Autonomous correlation of N32-c and N32-f | NTT DOCOMO |  |  |
|  | **Plenary** | [4281](./docs/C4-244281.zip) | CR 29.501 0168 Rel-18 Missing clause | Ericsson, MCC | Merged to C4-244332 | WI SBIProtoc18  CAT F |
|  | **Plenary** | [4282](./docs/C4-244282.zip) | CR 29.501 0169 Rel-19 Missing clause | Ericsson, MCC | Merged to C4-244333 | WI SBIProtoc18  CAT A |
| **18.7** | **Stage-3 5GS NAS protocol development 18 general aspects [5GProtoc18]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.8** | **Stage-3 5GS NAS protocol development 18 non 3GPP aspects [5GProtoc18-non3GPP]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.9** | **Stage-3 SAE Protocol Development [SAES18]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.10** | **Stage-3 SAE Protocol Development CSFB [SAES18-CSFB]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.11** | **Stage-3 SAE Protocol Development non 3GPP [SAES18-non3GPP]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.12** | **Protocol enhancements for Mission Critical Services [MCProtoc18]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.13** | **MPS for Supplementary Services [MPSSupServ]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.14** | **CT aspects of Mission Critical Services over 5MBS [MCOver5MBS]** |  |  |  |  |  |
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| **18.15** | **CT aspects of Mission Critical Services over 5GProSe [MCOver5GProSe]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.16** | **IMS Stage-3 IETF Protocol Alignment [IMSProtoc18]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.17** | **CT aspects of Signal level Enhanced Network Selection [SENSE]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.18** | **Rel-18 Enhancements of UE Policy [UEP18]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.19** | **5GS support of NR RedCap UE with long eDRX for RRC\_INACTIVE State [NR\_REDCAP\_Ph2]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.20** | **CT aspects on Multiple location report for MT-LR Immediate Location Request for regulatory services [TEI18\_MLR]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.21** | **Enhancement of Shared Data ID and Handling [ShDatID\_H]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.22** | **CT Aspects of Edge Computing Phase 2 [EDGE\_Ph2]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.23** | **Enhancement of NSAC for maximum number of UEs with at least one PDU session/PDN connection [eNSAC]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.24** | **Mission critical system migration and interconnection enhancements [eMCSMI\_IRail]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.25** | **CT aspects of application layer support for V2X services; Phase 3 [V2XAPP\_Ph3]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.26** | **CT aspects of proximity based services in 5GS Phase 2 [5G\_ProSe\_Ph2]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.27** | **Support for 5WWC Phase 2 [5WWC\_Ph2]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.28** | **Enhancement of application detection event exposure [TEI18\_ADEE]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.29** | **CT aspects of General Support of IPv6 Prefix Delegation in 5GS [TEI18\_IPv6PD]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.30** | **CT aspects of 5G System with Satellite Backhaul [5GSATB]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.31** | **Timing Resiliency and URLLC enhancements [TRS\_URLLC]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.32** | **Extensions to the TSC Framework to support DetNet [DetNet]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.33** | **CT aspects for Enabling Edge Applications Phase 2 [EDGEAPP\_Ph2]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.34** | **Rel-18 enhancements of session management policy control [SMPC18]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.35** | **CT aspects of 5G System Enabler for Service Function Chaining [SFC]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.36** | **Enhancement of Network Automation Enablers [eNetAE]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.37** | **CT aspects of enhancement of 5G UE Policy [eUEPO]** |  |  |  |  |  |
|  | **Plenary** | [4116](./docs/C4-244116.zip) | CR 29.510 1050 Rel-18 Unnecessary PCF Capability | ZTE | Merged to C4-244326 | WI eUEPO  CAT F  Overlapping with 4187, 4207  Emiliano: prefer the approach of removing the attributes  Zhijun: if we are going to remove the attribute it should be clarified on the coversheet that there is no backward compatibility issue |
|  | **Plenary** | [4117](./docs/C4-244117.zip) | CR 29.510 1051 Rel-19 Unnecessary PCF Capability | ZTE | Merged to C4-244327 | WI eUEPO  CAT A |
|  | **Plenary** | [4187](./docs/C4-244187.zip) | CR 29.510 1070 Rel-18 Correction of UPF information | Huawei | Revised to C4-244326 | WI eUEPO  CAT F |
|  |  | [4326](./docs/C4-244326.zip) | CR 29.510 1070 Rel-18 Correction of UPF information | Huawei, Nokia, ZTE |  |  |
|  | **Plenary** | [4188](./docs/C4-244188.zip) | CR 29.510 1071 Rel-19 Correction of UPF information | Huawei | Revised to C4-244327 | WI eUEPO  CAT A |
|  |  | [4327](./docs/C4-244327.zip) | CR 29.510 1071 Rel-19 Correction of UPF information | Huawei, Nokia, ZTE |  |  |
|  | **Plenary** | [4207](./docs/C4-244207.zip) | CR 29.510 1072 Rel-18 Incorrect PCF registration parameters | Nokia | Merged to C4-244326 | WI eUEPO  CAT F |
|  | **Plenary** | [4208](./docs/C4-244208.zip) | CR 29.510 1073 Rel-19 Incorrect PCF registration parameters | Nokia | Merged to C4-244327 | WI eUEPO  CAT A |
| **18.38** | **CT aspect of Seamless UE context recovery [SUECR]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.39** | **Secondary DN authentication and authorization in EPC IWK cases [TEI18\_SDNAEPC]** |  |  |  |  |  |
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| **18.40** | **CT aspects of enhancement to the 5GC location services - phase 3 [5G\_eLCS\_Ph3]** |  |  |  |  |  |
|  | **Breakout** | [4074](./docs/C4-244074.zip) | CR 29.572 0284 Rel-18 Modify the attributes of LocContextData | China Telecom |  | WI 5G\_eLCS\_Ph3  CAT F |
|  | **Breakout** | [4075](./docs/C4-244075.zip) | CR 29.572 0285 Rel-19 Modify the attributes of LocContextData | China Telecom |  | WI 5G\_eLCS\_Ph3  CAT A |
|  | **Breakout** | [4118](./docs/C4-244118.zip) | CR 29.572 0286 Rel-18 LCS Correlation ID in Nlmf\_Location\_CancelLocation Request | ZTE |  | WI 5G\_eLCS\_Ph3  CAT F |
|  | **Breakout** | [4119](./docs/C4-244119.zip) | CR 29.572 0287 Rel-19 LCS Correlation ID in Nlmf\_Location\_CancelLocation Request | ZTE |  | WI 5G\_eLCS\_Ph3  CAT A |
|  | **Breakout** | [4158](./docs/C4-244158.zip) | CR 29.572 0289 Rel-18 Update on cancel location | Huawei |  | WI 5G\_eLCS\_Ph3  CAT F |
|  | **Breakout** | [4159](./docs/C4-244159.zip) | CR 29.572 0290 Rel-19 Update on cancel location | Huawei |  | WI 5G\_eLCS\_Ph3  CAT A |
|  | **Breakout** | [4291](./docs/C4-244291.zip) | CR 29.515 0190 Rel-18 Correction to the user location report attributes | Nokia |  | WI 5G\_eLCS\_Ph3  CAT F |
|  | **Breakout** | [4292](./docs/C4-244292.zip) | CR 29.515 0191 Rel-19 Correction to the user location report attributes | Nokia |  | WI 5G\_eLCS\_Ph3  CAT A |
| **18.41** | **CT aspects of Enhanced support of Non-Public Networks Phase 2 [eNPN\_Ph2]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.42** | **CT aspects of SEAL data delivery enabler for vertical applications [SEALDD]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.43** | **Enhanced Service Enabler Architecture Layer for Verticals Phase 3 [SEAL\_Ph3]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.44** | **CT Aspects of Application Layer Support for Uncrewed Aerial Systems (UAS), Phase 2 [UASAPP\_Ph2]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.45** | **CT Aspects of 5GC architecture for satellite networks, Phase 2 [5GSAT\_Ph2]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.46** | **CT Aspects of Uncrewed Aerial Systems (UAS), Phase 2 [UAS\_Ph2]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.47** | **CT aspects of Ranging\_SL [Ranging\_SL]** |  |  |  |  |  |
|  | **Breakout** | [4304](./docs/C4-244304.zip) | CR 29.572 0292 Rel-18 Clarification on the RangeDirection parameter | CATT |  | WI Ranging\_SL  CAT F |
|  | **Breakout** | [4305](./docs/C4-244305.zip) | CR 29.572 0293 Rel-19 Clarification on the RangeDirection parameter | CATT |  | WI Ranging\_SL  CAT A |
|  | **Breakout** | [4313](./docs/C4-244313.zip) | CR 29.572 0295 Rel-18 Updates on relative velocity | Xiaomi |  | WI Ranging\_SL  CAT F |
|  | **Breakout** | [4314](./docs/C4-244314.zip) | CR 29.572 0296 Rel-19 Updates on relative velocity | Xiaomi |  | WI Ranging\_SL  CAT A |
|  | **Breakout** | [4315](./docs/C4-244315.zip) | CR 24.080 0120 Rel-18 Updates on relative velocity | Xiaomi |  | WI Ranging\_SL  CAT F |
|  | **Breakout** | [4316](./docs/C4-244316.zip) | CR 24.080 0121 Rel-18 Updates on SL-MT-LR for periodic triggered Location Events | Xiaomi |  | WI Ranging\_SL  CAT F |
| **18.48** | **CT aspects of 5GFLS [5GFLS]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.49** | **CT aspects of MCGWUE [MCGWUE]** |  |  |  |  |  |
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| **18.50** | **GBA\_U Based APIs [GBA\_U\_APIs]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.51** | **CT aspects of AIML [AIMLsys]** |  |  |  |  |  |
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| **18.52** | **CT aspects of NG\_RTC [NG\_RTC]** |  |  |  |  |  |
|  |  | 4102 | CR 29.175 0016 Rel-18 DC resource release due to a CANCEL request | China Mobile | withdrawn | WI NG\_RTC  CAT F |
|  | **Breakout** | [4103](./docs/C4-244103.zip) | CR 29.175 0017 Rel-18 DC resource release due to a CANCEL request | China Mobile |  | WI NG\_RTC  CAT F |
|  | **Breakout** | [4104](./docs/C4-244104.zip) | CR 29.175 0018 Rel-18 Remove the MRF description | China Mobile |  | WI NG\_RTC  CAT F |
|  | **Breakout** | [4231](./docs/C4-244231.zip) | CR 29.175 0020 Rel-18 Report the QoS info to DCSF | Huawei |  | WI NG\_RTC  CAT F |
|  | **Breakout** | [4232](./docs/C4-244232.zip) | CR 29.176 0020 Rel-18 Correction on Nmf\_MRM service | Huawei |  | WI NG\_RTC  CAT F |
|  | **Breakout** | [4300](./docs/C4-244300.zip) | CR 29.175 0023 Rel-18 Remove the MRF | CATT |  | WI NG\_RTC  CAT F |
| **18.53** | **CT aspects of 5G AM Policy [AMP]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.54** | **CT aspects on Dynamically Changing AM Policies in the 5GC Phase 2 [TEI18\_DCAMP\_Ph2]** |  |  |  |  |  |
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| **18.55** | **CT aspects of MPS\_WLAN [MPS\_WLAN]** |  |  |  |  |  |
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| **18.56** | **CT aspects of ADAES [ADAES]** |  |  |  |  |  |
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| **18.57** | **CT aspects of MSGin5G Service Ph2 [5GMARCH\_Ph2]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.58** | **CT aspects of VMR [VMR]** |  |  |  |  |  |
|  | **Plenary** | [4184](./docs/C4-244184.zip) | CR 29.510 1067 Rel-18 Discovery of LMF that supports LCS when MBSR is involved | Huawei | Not Pursued | WI VMR  CAT F  Overlapping with 4309  Jones/Baixiao/Hanna: existing “required-feature” query can serve this purpose. No need for this CR  The existing mechanism can already serve the purpose |
|  | **Plenary** | [4185](./docs/C4-244185.zip) | CR 29.510 1068 Rel-19 Discovery of LMF that supports LCS when MBSR is involved | Huawei | Not Pursued | WI VMR  CAT A |
|  | **Plenary** | [4309](./docs/C4-244309.zip) | CR 29.510 1083 Rel-18 LMF supports LCS when MBSR is involved | Nokia | Not Pursued | WI VMR  CAT F |
|  | **Plenary** | [4310](./docs/C4-244310.zip) | CR 29.510 1084 Rel-19 LMF supports LCS when MBSR is involved | Nokia | Not Pursued | WI VMR  CAT A |
| **18.59** | **Enhancements on Service-based support for SMS in 5GC [eSMS\_SBI]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.60** | **CT aspects of eNA\_Ph3 [eNA\_Ph3]** |  |  |  |  |  |
|  | **Plenary** | [4182](./docs/C4-244182.zip) | CR 29.510 1065 Rel-18 Discovery of AnLF based of interoperability indicator of the MTLF | Huawei | Revised to C4-244328 | WI eNA\_Ph3  CAT F  Mamdoh: this is not FASMO; this is already mentioned in stage2 |
|  |  | [4328](./docs/C4-244328.zip) | CR 29.510 1065 Rel-18 Discovery of AnLF based of interoperability indicator of the MTLF | Huawei |  |  |
|  | **Plenary** | [4183](./docs/C4-244183.zip) | CR 29.510 1066 Rel-19 Discovery of AnLF based of interoperability indicator of the MTLF | Huawei | Revised to C4-244329 | WI eNA\_Ph3  CAT A |
|  |  | [4329](./docs/C4-244329.zip) | CR 29.510 1066 Rel-19 Discovery of AnLF based of interoperability indicator of the MTLF | Huawei |  |  |
| **18.61** | **CT aspects of PIN [PIN]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.62** | **CT aspects of PINAPP [PINAPP]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.63** | **CT aspects of GMEC [GMEC]** |  |  |  |  |  |
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| **18.64** | **CT aspects of 5MBS\_Ph2 [5MBS\_Ph2]** |  |  |  |  |  |
|  | **Main** | [4209](./docs/C4-244209.zip) | CR 29.244 0879 Rel-18 MBS session charging per rating group | Nokia |  | WI 5MBS\_Ph2, 5MBS\_CH  CAT F |
| **18.65** | **CT aspects of Enhancement of Network Slicing Phase 3 [eNS\_Ph3]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.66** | **CT aspects of XRM [XRM]** |  |  |  |  |  |
|  | **Main** | [4095](./docs/C4-244095.zip) | CR 29.502 0805 Rel-18 RAN-triggered ECN Marking or Congestion Information Status change | Huawei |  | WI XRM  CAT F |
|  | **Main** | [4096](./docs/C4-244096.zip) | CR 29.502 0806 Rel-19 RAN-triggered ECN Marking or Congestion Information Status change | Huawei |  | WI XRM  CAT A |
|  | **Main** | [4097](./docs/C4-244097.zip) | CR 29.244 0872 Rel-18 Correction on End of Data Burst Indication | Huawei |  | WI XRM  CAT F |
|  | **Main** | [4120](./docs/C4-244120.zip) | CR 29.244 0873 Rel-18 UPF Behaviour of Setting PDU Set Information | ZTE |  | WI XRM  CAT F |
|  | **Main** | [4193](./docs/C4-244193.zip) | CR 29.571 0591 Rel-18 Correction of RtpHeaderExtInfo | Lenovo |  | WI XRM  CAT F |
|  | **Main** | [4194](./docs/C4-244194.zip) | CR 29.571 0592 Rel-19 Correction of RtpHeaderExtInfo | Lenovo |  | WI XRM  CAT A |
| **18.67** | **CT aspects of Access Traffic Steering, Switching and Splitting support in 5G system – Phase 3 [ATSSS\_Ph3]** |  |  |  |  |  |
|  | **Plenary** | [4195](./docs/C4-244195.zip) | Work Plan Rel-18 Work Plan for ATSSS Phase 3 | Lenovo |  |  |
| **18.68** | **CT4 aspects of UPF enhancement for exposure and SBA [UPEAS]** |  |  |  |  |  |
|  |  | [4090](./docs/C4-244090.zip) | CR 29.564 0108 Rel-19 Rejection if UPF event Exposure is not supported for non-IP PDU session | Huawei | Moved to 19.4 | WI UPEAS  CAT F |
| **18.69** | **UE pre-configuration for 5MBS [UEConfig5MBS]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.70** | **CT aspects of Enhanced Mission Critical Push-to-talk architecture phase 4**  **[enh4MCPTT]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.71** | **CT aspects of Slice-based PLMN Selection**  **[PLMNsel\_NS]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.72** | **Enhancement of Network Slicing UICC application for network slice-specific authentication and authorization [eNS\_UICC]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.73** | **CT aspects of MBS support for V2X services**  **[TEI18\_MBS4V2X]** |  |  |  |  |  |
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| **18.74** | **CT aspects on** **Spending Limits for AM and UE Policies in the 5GC**  **[TEI18\_SLAMUP]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.75** | **CT aspects of home network triggered primary authentication**  **[HN\_Auth]** |  |  |  |  |  |
|  | **Breakout** | [4051](./docs/C4-244051.zip) | CR 29.503 1314 Rel-19 Reauthentication pending | Nokia |  | WI TEI19, HN\_Auth  CAT B |
|  | **Breakout** | [4052](./docs/C4-244052.zip) | CR 29.503 1315 Rel-19 Reauthentication required for SDM subscribe | Nokia |  | WI TEI19, HN\_Auth  CAT F |
|  | **Breakout** | [4139](./docs/C4-244139.zip) | CR 29.503 1324 Rel-18 Clarify the application errors included in Re-AuthenticationNotification response | ZTE |  | WI HN\_Auth  CAT F |
|  | **Breakout** | [4140](./docs/C4-244140.zip) | CR 29.503 1325 Rel-19 Clarify the application errors included in Re-AuthenticationNotification response | ZTE |  | WI HN\_Auth  CAT A |
|  |  | [4141](./docs/C4-244141.zip) | LS out Reply LS on clarification on home network triggered re-authentication | ZTE | Moved to 4.2 |  |
|  | **Breakout** | [4162](./docs/C4-244162.zip) | CR 29.503 1329 Rel-18 Update on the failure cause | Huawei |  | WI HN\_Auth  CAT F |
|  | **Breakout** | [4163](./docs/C4-244163.zip) | CR 29.503 1330 Rel-19 Update on the failure cause | Huawei |  | WI HN\_Auth  CAT A |
| **18.76** | **CT aspects of Mission Critical ad hoc group Communications**  **[MC\_AHGC]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.77** | **NRF API enhancements to avoid signalling and storing of redundant data**  **[NRFe]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.78** | **Network Slice Capability Exposure for Application Layer Enablement**  **[NSCALE]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.79** | **Application enablement aspects for subscriber-aware northbound API access**  **[SNAAPP]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.80** | **IVAS\_Codec [IVAS\_Codec]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.81** | **Update of conformance test specifications to Rel-18 [UEConTest\_R18]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.82** | **Test method of GBA\_U Based APIs [TEST\_GBA\_U\_APIs]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.83** | **UE conformance test for NB-IoT/eMTC Non-Terrestrial Networks in EPS [IoT\_SAT\_UEConTest]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **18.84** | **Any other Rel-18 Work item or Study item** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **19** | **Release 19** |  |  |  |  |  |
| **19.1** | **Rel-19 Exception sheets or other Rel-19 work planning** |  |  |  |  |  |
|  |  | 4010 | Work Plan Work Plan | CT4 Chair |  |  |
| **19.2** | **New WIDs for Rel-19** |  |  |  |  |  |
|  |  | [4210](./docs/C4-244210.zip) | WID new Rel-19 New WID on CT aspects of Extended Reality and Media service (XRM) Phase 2 | Nokia | Moved to 19.2.2 |  |
|  |  | [4318](./docs/C4-244318.zip) | WID new Rel-19 New WID on CT aspects of energy efficiency and energy saving | Samsung | Moved to 19.2.1 |  |
| **19.2.1** | **CT4 Led WIDs** |  |  |  |  |  |
|  | **Plenary** | [4078](./docs/C4-244078.zip) | WID new Rel-19 New WID on IMS Disaster Prevention and Restoration Enhancement | China Telecom Corporation Ltd. | Postponed | Ulrich: it is too early to agree on this WID. Since we have sent LS to SA2 to get comments on the outcome of the related study. Better to wait until we get feedback from SA2  Emiliano: concur with Ulrich |
|  | **Plenary** | [4155](./docs/C4-244155.zip) | WID new Rel-19 New WID on CT Aspects on Subscription control for reference time distribution in EPS | Qualcomm Incorporated | Revised to C4-244321 |  |
|  |  | [4321](./docs/C4-244321.zip) | WID new Rel-19 New WID on CT Aspects on Subscription control for reference time distribution in EPS | Qualcomm Incorporated |  | The UID is 1060001 |
|  | **Plenary** | [4245](./docs/C4-244245.zip) | WID new Rel-19 New WID on CT aspects of 5G NR Femto | NTT DOCOMO | Revised to C4-244322 |  |
|  |  | [4322](./docs/C4-244322.zip) | WID new Rel-19 New WID on CT aspects of 5G NR Femto | NTT DOCOMO |  | The UID is 1060002 |
|  | **Plenary** | [4312](./docs/C4-244312.zip) | WID new Rel-19 New WID on Reducing Information Exposure over SBI | Samsung Electronics Iberia SA | Revised to C4-244323 |  |
|  |  | [4323](./docs/C4-244323.zip) | WID new Rel-19 New WID on Reducing Information Exposure over SBI | Samsung Electronics Iberia SA |  | The UID is 1060003 |
|  | **Plenary** | [4318](./docs/C4-244318.zip) | WID new Rel-19 New WID on CT aspects of energy efficiency and energy saving | Samsung |  | Roya: we need more time checking  Mamdoh: propose to postpone this WID waiting for more outcome from stage2  Bruno: this wid was submitted late without any announcement  Zhijun: it is still too early to start the work in CT |
| **19.2.2** | **CT4 Supported WIDs** |  |  |  |  |  |
|  | **Plenary** | [4210](./docs/C4-244210.zip) | WID new Rel-19 New WID on CT aspects of Extended Reality and Media service (XRM) Phase 2 | Nokia | Revised to C4-244324 |  |
|  |  | [4324](./docs/C4-244324.zip) | WID new Rel-19 New WID on CT aspects of Extended Reality and Media service (XRM) Phase 2 | Nokia |  |  |
| **19.3** | **Revised WIDs for Rel-19** |  |  |  |  |  |
|  |  | [4197](./docs/C4-244197.zip) | WID revised Rel-19 Revised WID on CT Aspects of Phase 3 for UAS, UAV and UAM | LG Electronics, Ericsson | Moved to 19.3.2 |  |
| **19.3.1** | **CT4 Led WIDs** |  |  |  |  |  |
|  |  | [4245](./docs/C4-244245.zip) | WID new Rel-19 New WID on CT aspects of 5G NR Femto | NTT DOCOMO | Moved to 19.2.1 |  |
| **19.3.2** | **CT4 Supported WIDs** |  |  |  |  |  |
|  | **Plenary** | [4197](./docs/C4-244197.zip) | WID revised Rel-19 Revised WID on CT Aspects of Phase 3 for UAS, UAV and UAM | LG Electronics, Ericsson | Revised to C4-244325 |  |
|  |  | [4325](./docs/C4-244325.zip) | WID revised Rel-19 Revised WID on CT Aspects of Phase 3 for UAS, UAV and UAM | LG Electronics, Ericsson |  |  |
|  | **Plenary** | [4271](./docs/C4-244271.zip) | Work Plan Rel-19 work plan for UAS\_Ph3 | LG Electronics | Noted |  |
|  | **Plenary** | [4249](./docs/C4-244249.zip) | WID revised Rel-19 Revised WID on CT aspects of ProSe support in NPN | China Telecomunication Corp. |  |  |
|  | **Plenary** | [4287](./docs/C4-244287.zip) | WID revised Rel-19 Revised WID on CT aspects of Enhancing Parameter Provisioning with static UE IP address and UP security policy | Ericsson | Endorsed |  |
| **19.4** | **TEI19 [TEI19]** |  |  |  |  |  |
|  | **Breakout** | [4039](./docs/C4-244039.zip) | CR 29.503 1309 Rel-19 Wrong CR implementation | Nokia, MCC |  | WI TEI19  CAT F |
|  | **Breakout** | [4053](./docs/C4-244053.zip) | CR 29.503 1316 Rel-19 Missing description | Nokia |  | WI TEI19  CAT F |
|  | **Breakout** | [4054](./docs/C4-244054.zip) | CR 29.503 1317 Rel-19 Additional PGW IP Address | Nokia |  | WI TEI19  CAT F |
|  | **Main** | [4060](./docs/C4-244060.zip) | CR 23.007 0399 Rel-19 Including Pending PDN Connection Restoration Indication during EPS to 5GS mobility | Ericsson, Nokia |  | WI RPCPSET, TEI19  CAT B |
|  | **Main** | [4061](./docs/C4-244061.zip) | CR 29.274 2112 Rel-19 Including Pending PDN Connection Restoration Indication during EPS to 5GS mobility | Ericsson, Nokia |  | WI RPCPSET, TEI19  CAT B |
|  | **Main** | [4062](./docs/C4-244062.zip) | CR 29.502 0800 Rel-19 PGW Change Indication for the restoration of a PDN connection during EPS to 5GS mobility | Ericsson, Nokia |  | WI RPCPSET, TEI19  CAT B |
|  | **Main** | [4068](./docs/C4-244068.zip) | CR 29.502 0801 Rel-19 Populate the supportedPfcpFeatures and UPF events of ULCL/BP and local PSA | Ericsson |  | WI TEI19, UPEAS  CAT B |
|  | **Main** | [4069](./docs/C4-244069.zip) | CR 29.244 0869 Rel-19 Clarification on the Downlink Data Notification Delay for 5GC | Ericsson |  | WI TEI19  CAT F |
|  | **Main** | [4070](./docs/C4-244070.zip) | CR 29.518 1120 Rel-19 The maxWaitingTime in the N1N2MsgTxFrFailureNotification | Ericsson |  | WI TEI19  CAT F |
|  | **Plenary** | [4081](./docs/C4-244081.zip) | CR 29.573 0215 Rel-19 Applicative error originated by RI via N32-f | Huawei |  | WI TEI19  CAT F |
|  | **Main** | [4082](./docs/C4-244082.zip) | CR 29.564 0107 Rel-19 Corrections on dlPeakThroughput and throughputStatisticMeasurements attributes | Huawei |  | WI TEI19  CAT F |
|  | **Main** | [4083](./docs/C4-244083.zip) | CR 29.531 0221 Rel-19 Correction on NSAG Info List attribute | Huawei |  | WI TEI19  CAT F |
|  | **Main** | [4084](./docs/C4-244084.zip) | CR 29.502 0803 Rel-19 Correction on enumerations | Huawei |  | WI TEI19  CAT F |
|  | **Main** | [4085](./docs/C4-244085.zip) | CR 29.244 0870 Rel-19 Correction on the length of IEs | Huawei |  | WI TEI19  CAT F |
|  | **Plenary** | [4086](./docs/C4-244086.zip) | CR 29.274 2113 Rel-19 Support of Time Reference Information Distribution Indication | Huawei |  | WI TEI19, TEI19\_TIME\_SUB\_EPS  CAT B  Change WIC |
|  | **Main** | [4090](./docs/C4-244090.zip) | CR 29.564 0108 Rel-19 Rejection if UPF event Exposure is not supported for non-IP PDU session | Huawei |  | WI TEI19, UPEAS  CAT F |
|  | **Main** | [4121](./docs/C4-244121.zip) | CR 29.244 0874 Rel-19 Network Instance Assigned by UP Function in Full-Mesh Scenario | ZTE |  | WI TEI19, CUPS  CAT B |
|  | **Plenary** | [4127](./docs/C4-244127.zip) | CR 29.571 0584 Rel-19 Common Data Type for 5G Femto Information | ZTE |  | WI 5G\_Femto  CAT B |
|  | **Plenary** | [4128](./docs/C4-244128.zip) | CR 29.503 1322 Rel-19 Provision of 5G Femto Information to UDM | ZTE |  | WI 5G\_Femto  CAT B |
|  | **Plenary** | [4298](./docs/C4-244298.zip) | CR 29.503 1347 Rel-19 5G Femto CAG information provisioning | Samsung Electronics Iberia SA |  | WI TEI19, 5G\_Femto  CAT B |
|  | **Breakout** | [4131](./docs/C4-244131.zip) | CR 29.579 0022 Rel-19 Add STRUCTURED TYPES in TS 29.579 | China Telecom Corporation Ltd. |  | WI TEI19  CAT F |
|  | **Breakout** | [4167](./docs/C4-244167.zip) | CR 29.503 1332 Rel-19 Add missing description for Nudm\_PP | Huawei |  | WI TEI19  CAT F |
|  | **Breakout** | [4168](./docs/C4-244168.zip) | CR 29.503 1333 Rel-19 Corrections on GpsiInfo | Huawei |  | WI TEI19  CAT F |
|  | **Breakout** | [4169](./docs/C4-244169.zip) | CR 29.503 1334 Rel-19 Corrections on the DefaultDnnIndicator | Huawei |  | WI TEI19  CAT F |
|  | **Breakout** | [4170](./docs/C4-244170.zip) | CR 29.503 1335 Rel-19 Miscellaneous corrections | Huawei |  | WI TEI19  CAT F |
|  | **Breakout** | [4171](./docs/C4-244171.zip) | CR 29.559 0046 Rel-19 Add missing description | Huawei |  | WI TEI19  CAT F |
|  | **Plenary** | [4174](./docs/C4-244174.zip) | CR 29.272 0862 Rel-19 Add Time Reference Information Distribution Indication | Huawei |  | WI TEI19\_TIME\_SUB\_EPS  CAT B |
|  | **Breakout** | [4178](./docs/C4-244178.zip) | CR 29.503 1339 Rel-19 Misplaced paragraph | Nokia, CEWiT |  | WI TEI19  CAT F |
|  | **Main** | [4196](./docs/C4-244196.zip) | CR 29.244 0878 Rel-19 Wrong reference to the Domain Name Protocol field | Ericsson |  | WI TEI19  CAT F |
|  | **Main** | [4198](./docs/C4-244198.zip) | CR 29.502 0809 Rel-19 PDU session with a V/I SMF for an eDRX UE | Ericsson |  | WI TEI19  CAT F |
|  | **Plenary** | [4211](./docs/C4-244211.zip) | CR 23.527 0086 Rel-19 Clarification to the Multicast MBS session restoration procedure for NG-RAN restart | Nokia |  | WI TEI19  CAT F |
|  | **Plenary** | [4212](./docs/C4-244212.zip) | CR 23.527 0082 Rel-19 Multicast MBS session restoration procedure for N3mb path failure | Nokia, Huawei |  | WI TEI19, 5MBS\_Ph2  CAT B |
|  | **Plenary** | [4213](./docs/C4-244213.zip) | CR 29.273 0552 Rel-19 Notes on ePDG treating the UE with priority | Nokia |  | WI TEI19, MPS\_WLAN  CAT F |
|  | **Main** | [4214](./docs/C4-244214.zip) | CR 29.244 0880 Rel-19 Clarification on End of Data Burst Indication | Nokia |  | WI TEI19, XRM  CAT F |
|  | **Plenary** | [4241](./docs/C4-244241.zip) | CR 29.518 1127 Rel-19 Definition of AMF event filter for UAV deviation from the expected trajectory | Huawei |  | WI TEI19, UAS\_Ph3  CAT B  Overlapping with 4269 |
|  | **Plenary** | [4269](./docs/C4-244269.zip) | CR 29.518 1135 Rel-19 New AMF Event of Trajectory Tracking for USS Change Over | Ericsson, LG Electronics |  | WI UAS\_Ph3  CAT B |
|  | **Main** | [4248](./docs/C4-244248.zip) | CR 29.502 0811 Rel-19 Notify of UE being reachable for DL signaling | Ericsson |  | WI TEI19  CAT F |
|  | **Breakout** | [4263](./docs/C4-244263.zip) | CR 29.503 1344 Rel-19 Correction on Application Errors | Ericsson |  | WI TEI19  CAT F |
|  | **Main** | [4264](./docs/C4-244264.zip) | CR 29.518 1133 Rel-19 PWS N2 Subscription per CBCF | Ericsson, one2many |  | WI TEI19  CAT F |
|  |  | [4271](./docs/C4-244271.zip) | Work Plan Rel-19 work plan for UAS\_Ph3 | LG Electronics | Moved to 19.3.2 |  |
|  | **Main** | [4273](./docs/C4-244273.zip) | CR 29.518 1136 Rel-19 Correction of data type name | Huawei |  | WI TEI19  CAT F |
|  | **Plenary** | [4274](./docs/C4-244274.zip) | CR 29.510 1080 Rel-19 Clarification on missing abbreviations | Huawei |  | WI TEI19  CAT F |
|  | **Main** | [4275](./docs/C4-244275.zip) | CR 29.518 1137 Rel-19 29.518 Adding missing abbreviation | Huawei |  | WI TEI19  CAT F |
|  | **Plenary** | [4276](./docs/C4-244276.zip) | CR 29.500 0455 Rel-19 Clarification on missing abbreviations | Huawei |  | WI TEI19  CAT F |
|  | **Plenary** | [4277](./docs/C4-244277.zip) | CR 29.501 0166 Rel-19 Clarification on missing abbreviations | Huawei |  | WI TEI19  CAT F |
|  | **Main** | [4278](./docs/C4-244278.zip) | CR 29.502 0815 Rel-19 Clarification on missing abbreviations | Huawei |  | WI TEI19  CAT F |
|  | **Plenary** | [4288](./docs/C4-244288.zip) | CR 23.003 0704 Rel-19 Correction to wrong references | Ericsson, MCC |  | WI TEI19  CAT F |
|  | **Plenary** | [4293](./docs/C4-244293.zip) | CR 29.510 1081 Rel-19 Clarification to the Source NF instance ID description in Access Token Claims | Nokia |  | WI TEI19, eNA\_Ph3  CAT F |
| **19.5** | **CT Aspects on Minimize the Number of Policy Associations [TEI19\_MINPA]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **19.6** | **CT aspects of Enhancing Parameter Provisioning with static UE IP address and UP security policy [TEI19\_IP\_SP\_EXP]** |  |  |  |  |  |
|  | **Plenary** | [4050](./docs/C4-244050.zip) | CR 29.503 1313 Rel-19 Enhancing parameter provisioning with static UE IP address and 5G VN group data with UP security policy for the 5G VN group | Nokia | Merged to C4-244337, C4-244338 | WI TEI19\_IP\_SP\_EXP  CAT B  Overlapping with 4172, 4173, 4200 |
|  | **Plenary** | [4172](./docs/C4-244172.zip) | CR 29.503 1336 Rel-19 Add User Plane Security Policy | Huawei | Revised to C4-244337 | WI TEI19\_IP\_SP\_EXP  CAT B |
|  |  | [4337](./docs/C4-244337.zip) | CR 29.503 1336 Rel-19 Add User Plane Security Policy | Huawei, Nokia, Ericsson |  |  |
|  | **Plenary** | [4173](./docs/C4-244173.zip) | CR 29.503 1337 Rel-19 Support of Static IP address assignment parameters | Huawei | Merged to C4-244338 | WI TEI19\_IP\_SP\_EXP  CAT B |
|  | **Plenary** | [4200](./docs/C4-244200.zip) | CR 29.503 1340 Rel-19 Enhancing Parameter Provisioning with Static IP address and Security Policy | Ericsson | Revised to C4-244338 | WI TEI19\_IP\_SP\_EXP  CAT B |
|  |  | [4338](./docs/C4-244338.zip) | CR 29.503 1340 Rel-19 Enhancing Parameter Provisioning with Static IP address and Security Policy | Ericsson, Nokia, Huawei |  |  |
| **19.7** | **CT aspects of Providing per-subscriber VLAN instructions from UDM and DN-AAA [TEI19\_VLANSUB]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **19.8** | **CT Aspects of Application Layer Support for Uncrewed Aerial Systems (UAS), Phase 3[UASAPP\_Ph3]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **19.9** | **CT aspects for Enabling Edge Applications Phase 3[EDGEAPP\_Ph3]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **19.10** | **Service Based Interface Protocol Improvements Release 19 [SBIProtoc19]** |  |  |  |  |  |
|  | **Plenary** | [4043](./docs/C4-244043.zip) | CR 29.510 1045 Rel-19 Nhss\_Parameter Provisioning | Nokia | Agreed | WI SBIProtoc19  CAT B |
|  | **Breakout** | [4044](./docs/C4-244044.zip) | CR 23.632 0048 Rel-19 Nhss\_Parameter Provisioning | Nokia |  | WI SBIProtoc19  CAT B |
|  | **Breakout** | [4045](./docs/C4-244045.zip) | CR 29.563 0096 Rel-19 Removal of Editor's Note | Nokia |  | WI SBIProtoc19  CAT F |
|  | **Plenary** | [4047](./docs/C4-244047.zip) | CR 29.510 1046 Rel-19 Reducing Information Exposure using Resource Content Filters | Nokia | Revised to C4-244340 | WI SBIProtoc19  CAT B  Should use the new WI as proposed in 4312 |
|  |  | [4340](./docs/C4-244340.zip) | CR 29.510 1046 Rel-19 Reducing Information Exposure using Resource Content Filters | Nokia |  |  |
|  | **Breakout** | [4048](./docs/C4-244048.zip) | CR 29.598 0083 Rel-19 Complex Types | Nokia |  | WI SBIProtoc19  CAT F |
|  | **Breakout** | [4049](./docs/C4-244049.zip) | CR 29.598 0084 Rel-19 Timer search with filters using meta tags | Nokia |  | WI SBIProtoc19  CAT F |
|  | **Breakout** | [4063](./docs/C4-244063.zip) | CR 29.503 1319 Rel-19 Shared Monitoring Suspension | Nokia, Ericsson |  | WI SBIProtoc19  CAT B |
|  | **Plenary** | [4071](./docs/C4-244071.zip) | CR 29.500 0448 Rel-19 Clarification on the Sender Timestamp and the Max-Rsp-Time | Ericsson | Revised to C4-244341 | WI SBIProtoc19  CAT F |
|  |  | [4341](./docs/C4-244341.zip) | CR 29.500 0448 Rel-19 Clarification on the Sender Timestamp and the Max-Rsp-Time | Ericsson |  |  |
|  | **Plenary** | [4072](./docs/C4-244072.zip) | CR 29.502 0802 Rel-19 Clarification on the Sender and Origination Timestamp and the Max-Rsp-Time | Ericsson | Revised to C4-244342 | WI SBIProtoc19  CAT F |
|  |  | [4342](./docs/C4-244342.zip) | CR 29.502 0802 Rel-19 Clarification on the Sender and Origination Timestamp and the Max-Rsp-Time | Ericsson |  |  |
|  |  | 4080 | CR 29.501 0163 Rel-19 OpenAPI definition of boolean with false value prohibited | Huawei, China Mobile | revised to C4-244250 | Revision of C4-244250  WI SBIProtoc19  CAT F |
|  | **Plenary** | [4122](./docs/C4-244122.zip) | CR 29.510 1052 Rel-19 Shutdown Time | ZTE | Revised to C4-244343 | WI SBIProtoc19  CAT B |
|  |  | [4343](./docs/C4-244343.zip) | CR 29.510 1052 Rel-19 Shutdown Time | ZTE |  |  |
|  | **Plenary** | [4144](./docs/C4-244144.zip) | CR 29.510 1056 Rel-19 Correction of 3xx response | ZTE | Revised to C4-244344 | WI SBIProtoc19  CAT F |
|  |  | [4344](./docs/C4-244344.zip) | CR 29.510 1056 Rel-19 Correction of 3xx response | ZTE |  |  |
|  | **Breakout** | [4164](./docs/C4-244164.zip) | CR 29.503 1331 Rel-19 Add new EventType | Huawei |  | WI SBIProtoc19  CAT B |
|  | **Main** | [4215](./docs/C4-244215.zip) | CR 29.518 1105 Rel-19 AMF Set level event exposure Bulk Subscriptions | Nokia, Ericsson |  | WI SBIProtoc19  CAT B |
|  | **Main** | [4216](./docs/C4-244216.zip) | CR 29.564 0114 Rel-19 Subscription termination upon PFCP session release | Nokia |  | WI SBIProtoc19  CAT F |
|  | **Breakout** | [4247](./docs/C4-244247.zip) | CR 29.503 1341 Rel-19 Support for AF Specific Identifier Selection in Multiple Identifiers Translation in UDM | CEWiT |  | WI SBIProtoc19  CAT B |
|  | **Plenary** | [4250](./docs/C4-244250.zip) | CR 29.501 0163 Rel-19 OpenAPI definition of boolean with false value prohibited | Huawei, China Mobile | Agreed | WI SBIProtoc19  CAT F |
|  |  | 4252 | CR 29.510 1075 Rel-19 Canary test procedure clarifications | Ericsson | Withdrawn | WI SBIProtoc19  CAT F |
|  | **Main** | [4259](./docs/C4-244259.zip) | CR 29.502 0812 Rel-19 Clarify Charging ID in PDU Session Create Operation | Ericsson, AT&T |  | WI SBIProtoc19  CAT F |
|  | **Main** | [4260](./docs/C4-244260.zip) | CR 29.502 0813 Rel-19 SMF Set Information During SM Context Creation | Ericsson, Nokia |  | WI SBIProtoc19  CAT B |
|  | **Main** | [4270](./docs/C4-244270.zip) | CR 29.502 0814 Rel-19 Preliminary Service Support | Ericsson |  | WI SBIProtoc19  CAT B |
|  | **Breakout** | [4272](./docs/C4-244272.zip) | CR 29.503 1345 Rel-19 Validity time in authorization data for NIDD authorization | Ericsson |  | WI SBIProtoc19  CAT F |
|  | **Breakout** | [4279](./docs/C4-244279.zip) | CR 29.505 0523 Rel-19 Validity time in authorization data for service specific and NIDD authorization | Ericsson |  | WI SBIProtoc19  CAT F |
|  | **Plenary** | [4280](./docs/C4-244280.zip) | CR 29.501 0167 Rel-19 Editorial Corrections | Ericsson | Revised to C4-244345 | WI SBIProtoc19  CAT F |
|  |  | [4345](./docs/C4-244345.zip) | CR 29.501 0167 Rel-19 Editorial Corrections | Ericsson | Agreed | WI TEI19  CAT D  The only change is to update the coversheet  WOP |
|  | **Breakout** | [4283](./docs/C4-244283.zip) | CR 29.503 1346 Rel-19 Implicit Unsubscribe for Shared Data | Ericsson |  | WI SBIProtoc19  CAT F |
|  | **Plenary** | [4299](./docs/C4-244299.zip) | CR 29.510 1082 Rel-19 Canary test procedure clarifications | Ericsson | Revised to C4-244346 | WI SBIProtoc19  CAT F |
|  |  | [4346](./docs/C4-244346.zip) | CR 29.510 1082 Rel-19 Canary test procedure clarifications | Ericsson |  |  |
|  | **Plenary** | [4306](./docs/C4-244306.zip) | CR 29.256 0029 Rel-19 Correct the notification URI | CATT | Revised to C4-244347 | WI SBIProtoc19  CAT F |
|  |  | [4347](./docs/C4-244347.zip) | CR 29.256 0029 Rel-19 Correct the notification URI | CATT |  |  |
| **19.11** | **Subscriber Data Migration [SUBDMIG]** |  |  |  |  |  |
|  | **Plenary** | [4123](./docs/C4-244123.zip) | CR 23.527 0085 Rel-19 Redirection due to Subscriber Data Migration | ZTE | Revised to C4-244348 | WI SUBDMIG  CAT B |
|  |  | [4348](./docs/C4-244348.zip) | CR 23.527 0085 Rel-19 Redirection due to Subscriber Data Migration | ZTE |  |  |
|  |  | 4124 | CR 29.510 1053 Rel-19 Redirection due to Subscriber Data Migration | ZTE | withdrawn | WI SUBDMIG  CAT B |
|  | **Plenary** | [4125](./docs/C4-244125.zip) | CR 29.571 0583 Rel-19 Redirection due to Subscriber Data Migration | ZTE | Revised to C4-244349 | WI SUBDMIG  CAT B |
|  |  | [4349](./docs/C4-244349.zip) | CR 29.571 0583 Rel-19 Redirection due to Subscriber Data Migration | ZTE |  |  |
|  | **Plenary** | [4129](./docs/C4-244129.zip) | CR 29.500 0451 Rel-19 Redirection due to Subscriber Data Migration | ZTE | Revised to C4-244350 | WI SUBDMIG  CAT B |
|  |  | [4350](./docs/C4-244350.zip) | CR 29.500 0451 Rel-19 Redirection due to Subscriber Data Migration | ZTE |  |  |
|  | **Plenary** | [4286](./docs/C4-244286.zip) | CR 23.527 0088 Rel-19 Immediate restoration for individual UE restoration requests | Ericsson | Revised to C4-244351 | WI SUBDMIG  CAT C |
|  |  | [4351](./docs/C4-244351.zip) | CR 23.527 0088 Rel-19 Immediate restoration for individual UE restoration requests | Ericsson | Agreed | The only changes are to correct the typo, and to highlight NOTE X  WOP |
| **19.12** | **Rel-19 Enhancements of 3GPP Northbound and Application Layer Interfaces and APIs[NBI19]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **19.13** | **IMS Stage-3 IETF Protocol Alignment [IMSProtoc19]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **19.14** | **Protocol enhancements for Mission Critical Services [MCProtoc19]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **19.15** | **Enhancement of controlling RAT utilization [ECRATU]** |  |  |  |  |  |
|  | **Plenary** | [4055](./docs/C4-244055.zip) | CR 29.503 1318 Rel-19 RAT restriction by serving PLMN policy | Nokia | Postponed | WI ECRATU  CAT B  Overlapping with 4107  Wait for the feedback from CT1 to the LS in 4339 |
|  | **Plenary** | [4107](./docs/C4-244107.zip) | CR 29.503 1321 Rel-19 RAT utilization control information in 5GS | vivo | Postponed | WI ECRATU  CAT B  Wait for the feedback from CT1 to the LS in 4339 |
|  | **Plenary** | [4106](./docs/C4-244106.zip) | CR 29.272 0861 Rel-19 RAT utilization control information in EPS | vivo | Postponed | WI ECRATU  CAT B  Wait for the feedback from CT1 to the LS in 4339 |
| **19.16** | **Enhanced Mission Critical Location Management [enhMCLoc]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **19.17** | **Stage-3 5GS NAS protocol development 19 general aspects [5GProtoc19]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **19.18** | **Stage-3 5GS NAS protocol development 19 non 3GPP aspects [5GProtoc19-non3GPP]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **19.19** | **Stage-3 SAE Protocol Development general [SAES19]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **19.20** | **Stage3 SAE Protocol Development non 3GPP [SAES19-non3GPP]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **19.21** | **CT Aspects of Indirect Network Sharing**  **[TEI19\_NetShare]** |  |  |  |  |  |
|  | **Plenary** | [4076](./docs/C4-244076.zip) | CR 29.510 1049 Rel-19 Support of Indirect Network Sharing | China Unicom, ZTE, Huawei |  | WI TEI19\_NetShare  CAT B  Overlapping with 4265 |
|  | **Plenary** | [4265](./docs/C4-244265.zip) | CR 29.510 1079 Rel-19 H-SMF Discovery for Indirect Network Sharing | Ericsson |  | WI TEI19\_NetShare  CAT B |
|  | **Plenary** | [4087](./docs/C4-244087.zip) | CR 29.502 0804 Rel-19 Support of Indirect Network Sharing | Huawei, China Unicom |  | WI TEI19\_NetShare  CAT B |
|  | **Plenary** | [4088](./docs/C4-244088.zip) | CR 29.531 0222 Rel-19 Support of Indirect Network Sharing | Huawei, China Unicom |  | WI TEI19\_NetShare  CAT B  Overlapping with 4267, 4294 |
|  | **Plenary** | [4267](./docs/C4-244267.zip) | CR 29.531 0224 Rel-19 S-NSSAI Mapping for Indirect Network Sharing | Ericsson |  | WI TEI19\_NetShare  CAT B |
|  | **Plenary** | [4294](./docs/C4-244294.zip) | CR 29.531 0225 Rel-19 Retrieve the mapping of the hosting operator S-NSSAIs during the Registration procedure | Nokia |  | WI TEI19\_NetShare  CAT B |
|  | **Plenary** | [4149](./docs/C4-244149.zip) | CR 29.500 0452 Rel-19 Clarification on SBI Header Setting | ZTE |  | WI TEI19\_NetShare  CAT B  Overlapping with 4295 |
|  | **Plenary** | [4295](./docs/C4-244295.zip) | CR 29.500 0456 Rel-19 Clarification on the Originating Network ID header for Indirect Network Sharing | Nokia |  | WI TEI19\_NetShare  CAT B |
|  | **Plenary** | [4150](./docs/C4-244150.zip) | CR 29.509 0228 Rel-19 Clarify the PLMN ID used in Serving Network Name | ZTE, China Unicom |  | WI TEI19\_NetShare  CAT B  Overlapping with 4297 |
|  | **Plenary** | [4297](./docs/C4-244297.zip) | CR 29.509 0229 Rel-19 Clarification on Serving Network Name for Indirect Network Sharing | Nokia |  | WI TEI19\_NetShare  CAT B |
|  | **Plenary** | [4266](./docs/C4-244266.zip) | CR 29.531 0223 Rel-19 Resolve EN for Network Slice Selection in Participating Operator Network | Ericsson |  | WI TEI19\_NetShare  CAT B |
|  | **Plenary** | [4296](./docs/C4-244296.zip) | CR 29.502 0816 Rel-19 Clarification to PDU session establishment with Indirect Network Sharing | Nokia |  | WI TEI19\_NetShare  CAT B |
| **19.22** | **CT aspects of railways specific enhancements to mission critical services [FRMCS\_Ph5]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **19.23** | **CT aspects of Architecture support of roaming value-added services [TEI19\_RVAS]** |  |  |  |  |  |
|  | **Plenary** | [4126](./docs/C4-244126.zip) | CR 29.510 1054 Rel-19 AUSF/UDM Discovery in Target PLMN | ZTE | OPEN | WI TEI19\_RVAS  CAT B |
| **19.24** | **CT Aspects of On-demand broadcast of GNSS assistance enhancement [TEI19\_OBGAD]** |  |  |  |  |  |
|  | **Main** | [4109](./docs/C4-244109.zip) | CR 29.518 1121 Rel-19 Support of on-demond broadcast of GNSS assistance data | China Mobile |  | WI TEI19\_OBGAD  CAT B  Overlapping with 4242, 4268 |
|  | **Main** | [4242](./docs/C4-244242.zip) | CR 29.518 1128 Rel-19 Updating AMF event filter to support on-demand broadcast of GNSS assistance data | Huawei |  | WI TEI19\_OBGAD  CAT B |
|  | **Main** | [4268](./docs/C4-244268.zip) | CR 29.518 1134 Rel-19 Number of UEs in Area Filter for LCS Broadcast Subscribed UE | Ericsson |  | WI TEI19\_OBGAD  CAT B |
| **19.25** | **CT aspects of NF discovery and selection by target PLMN [TEI19\_NFsel\_by\_tPLMN]** |  |  |  |  |  |
|  | **Plenary** | [4217](./docs/C4-244217.zip) | CR 29.500 0453 Rel-19 Routing requests with Target-apiRoot and w/o Scp-apiRoot in target PLMN | Nokia | Agreed | WI TEI19\_NFsel\_by\_tPLMN  CAT B |
|  | **Plenary** | [4218](./docs/C4-244218.zip) | CR 29.500 0454 Rel-19 Routing requests via alternative SCPs in target PLMN | Nokia | Revised to C4-244353 | WI TEI19\_NFsel\_by\_tPLMN  CAT B |
|  |  | [4353](./docs/C4-244353.zip) | CR 29.500 0454 Rel-19 Routing requests via alternative SCPs in target PLMN | Nokia |  |  |
|  | **Plenary** | [4219](./docs/C4-244219.zip) | CR 29.510 1074 Rel-19 Routing requests via alternative SCPs in target PLMN | Nokia | Revised to C4-244354 | WI TEI19\_NFsel\_by\_tPLMN  CAT B |
|  |  | [4354](./docs/C4-244354.zip) | CR 29.510 1074 Rel-19 Routing requests via alternative SCPs in target PLMN | Nokia |  |  |
|  | **Plenary** | [4220](./docs/C4-244220.zip) | CR 23.527 0087 Rel-19 NF reselection by SCP of target PLMN | Nokia | Agreed | WI TEI19\_NFsel\_by\_tPLMN  CAT B |
| **19.26** | **CT aspects of enhancement of support for Edge Computing in 5G Core network - Phase 3 [****eEDGE\_5GC\_Ph3]** |  |  |  |  |  |
|  | **Main** | [4089](./docs/C4-244089.zip) | CR 29.556 0044 Rel-19 I-SMF based Local Offloading Management | Huawei |  | WI eEDGE\_5GC\_Ph3  CAT B  Overlapping with 4221 |
|  | **Main** | [4221](./docs/C4-244221.zip) | CR 29.556 0045 Rel-19 New I-SMF consumer for I-SMF based Local Offloading Management | Nokia |  | WI eEDGE\_5GC\_Ph3  CAT B |
|  | **Main** | [4181](./docs/C4-244181.zip) | CR 29.571 0590 Rel-19 Define the common data type for Local Offloading Policy Information | Huawei |  | WI eEDGE\_5GC\_Ph3  CAT B  Overlapping with 4222 |
|  | **Main** | [4222](./docs/C4-244222.zip) | CR 29.571 0593 Rel-19 Local Offloading Information | Nokia |  | WI eEDGE\_5GC\_Ph3  CAT B |
|  | **Main** | [4223](./docs/C4-244223.zip) | CR 29.502 0810 Rel-19 N16a enhancements for I-SMF based Local Offloading Management | Nokia |  | WI eEDGE\_5GC\_Ph3  CAT B |
| **19.27** | **MPS for IMS Messaging and SMS services [MPS4msg]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **19.28** | **Identifying non-3GPP Devices Connecting behind a UE or 5G-RG [UIA\_ARC]** |  |  |  |  |  |
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| **19.29** | **CT aspects on Spending Limits for UE Policies in Roaming scenario [TEI19\_SLUPiR]** |  |  |  |  |  |
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| **19.30** | **CT aspects of QoS monitoring enhancement [TEI19\_QME]** |  |  |  |  |  |
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| **19.31** | **CT Aspects of Phase3 for UAS, UAV and UAM [UAS\_Ph3]** |  |  |  |  |  |
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| **19.32** | **CT aspects of enhanced application layer support for location services [eLSAPP]** |  |  |  |  |  |
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| **19.33** | **CT aspects of SEAL data delivery enabler for vertical applications Phase 2 [SEALDD\_Ph2]** |  |  |  |  |  |
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| **19.34** | **CT aspects of integration of satellite components in the 5G architecture Phase 3 [5GSAT\_Ph3\_ARCH]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **19.35** | **CT aspects of ProSe support in NPN [TEI19\_ProSe\_NPN]** |  |  |  |  |  |
|  |  | [4249](./docs/C4-244249.zip) | WID revised Rel-19 Revised WID on CT aspects of ProSe support in NPN | China Telecomunication Corp. | Moved to 19.3.2 |  |
|  | **Plenary** | [4307](./docs/C4-244307.zip) | CR 23.003 0705 Rel-19 Update ProSe App Code format to support 5G ProSe in NPNs | CATT | Revised to C4-244352 | WI TEI19\_ProSe\_NPN  CAT B |
|  |  | [4352](./docs/C4-244352.zip) | CR 23.003 0705 Rel-19 Update ProSe App Code format to support 5G ProSe in NPNs | CATT |  |  |
| **19.36** | **CT aspects of Proximity-based Services in 5GS Phase 3 [5G\_ProSe\_Ph3]** |  |  |  |  |  |
|  | **Plenary** | [4160](./docs/C4-244160.zip) | CR 29.503 1328 Rel-19 Support of multi hop U2N and U2U | Huawei |  | WI 5G\_ProSe\_Ph3  CAT B  Overlapping with 4256, 4301 |
|  | **Plenary** | [4256](./docs/C4-244256.zip) | CR 29.503 1342 Rel-19 Subscription Data for multi hop U2N and U2U | Ericsson |  | WI 5G\_ProSe\_Ph3  CAT B |
|  | **Plenary** | [4301](./docs/C4-244301.zip) | CR 29.503 1348 Rel-19 Support 5G ProSe multi-hop relay services | CATT |  | WI 5G\_ProSe\_Ph3  CAT B |
|  | **Plenary** | [4161](./docs/C4-244161.zip) | CR 29.571 0587 Rel-19 Support of multi hop U2N and U2U | Huawei |  | WI 5G\_ProSe\_Ph3  CAT B  Overlapping with 4257, 4303 |
|  | **Plenary** | [4257](./docs/C4-244257.zip) | CR 29.571 0594 Rel-19 Subscription Data for multi hop U2N and U2U | Ericsson |  | WI 5G\_ProSe\_Ph3  CAT B |
|  | **Plenary** | [4303](./docs/C4-244303.zip) | CR 29.571 0595 Rel-19 Support 5G ProSe multi-hop relay services | CATT |  | WI 5G\_ProSe\_Ph3  CAT B |
|  | **Plenary** | [4240](./docs/C4-244240.zip) | CR 29.518 1126 Rel-19 Support for Multi-hop 5G ProSe Layer-3 | Huawei |  | WI 5G\_ProSe\_Ph3  CAT B  Overlapping with 4302 |
|  | **Plenary** | [4302](./docs/C4-244302.zip) | CR 29.518 1138 Rel-19 Support 5G ProSe multi-hop relay services | CATT |  | WI 5G\_ProSe\_Ph3  CAT B |
|  | **Plenary** | [4317](./docs/C4-244317.zip) | CR 29.504 0291 Rel-19 Support 5G ProSe Multi-hop UE-to-Network Relay and Multi-hop UE-to-UE Relay | Huawei, CATT |  | WI 5G\_ProSe\_Ph3  CAT B |
| **19.37** | **CT aspects of UPF enhancement for Exposure And SBA Phase 2 [UPEAS\_Ph2]** |  |  |  |  |  |
|  | **Plenary** | [4064](./docs/C4-244064.zip) | CR 29.244 0868 Rel-19 Support of NAT exposure feature and Operator Configurable UPF capability | Ericsson |  | WI UPEAS\_Ph2  CAT B  Overlapping with 4091, 4132, 4133, 4154 |
|  | **Plenary** | [4091](./docs/C4-244091.zip) | CR 29.244 0871 Rel-19 Operator configurable UPF capability | Huawei |  | WI UPEAS\_Ph2  CAT B |
|  | **Plenary** | [4132](./docs/C4-244132.zip) | CR 29.244 0875 Rel-19 Support operator configurable parameter in N4 | China Mobile |  | WI UPEAS\_Ph2  CAT B |
|  | **Plenary** | [4133](./docs/C4-244133.zip) | CR 29.244 0876 Rel-19 Supported functionality of NAT information exposure | China Mobile |  | WI UPEAS\_Ph2  CAT B |
|  | **Plenary** | [4154](./docs/C4-244154.zip) | CR 29.244 0877 Rel-19 Indicate the UPF capabilities on N4 interface | ZTE |  | WI UPEAS\_Ph2  CAT B  Overlapping also with 4246 |
|  | **Plenary** | [4246](./docs/C4-244246.zip) | CR 29.244 0881 Rel-19 UPF Packet Inspection functionalities | Ericsson |  | WI UPEAS\_Ph2  CAT B |
|  | **Plenary** | [4065](./docs/C4-244065.zip) | CR 29.571 0582 Rel-19 Operator Configurable UPF Capability | Ericsson |  | WI UPEAS\_Ph2  CAT B  Overlapping with 4136, 4137 |
|  | **Plenary** | [4136](./docs/C4-244136.zip) | CR 29.571 0585 Rel-19 Support of optional extended UPF functionalities | Nokia |  | WI UPEAS\_Ph2  CAT B |
|  | **Plenary** | [4137](./docs/C4-244137.zip) | CR 29.571 0586 Rel-19 Support operator configurable parameter in common data | China Mobile |  | WI UPEAS\_Ph2  CAT B |
|  | **Plenary** | [4066](./docs/C4-244066.zip) | CR 29.510 1047 Rel-19 Packet Inspection Functionality and Operator Configurable UPF Capability | Ericsson |  | WI UPEAS\_Ph2  CAT B  Overlapping with 4134, 4152, 4179, 4180, 4319 |
|  | **Plenary** | [4134](./docs/C4-244134.zip) | CR 29.510 1055 Rel-19 Support operator configurable parameter in NRF | China Mobile |  | WI UPEAS\_Ph2  CAT B |
|  | **Plenary** | [4152](./docs/C4-244152.zip) | CR 29.510 1061 Rel-19 Indicate the UPF capabilities in NRF | ZTE |  | WI UPEAS\_Ph2  CAT B |
|  | **Plenary** | [4179](./docs/C4-244179.zip) | CR 29.510 1063 Rel-19 Discovery of UPF based on new capabilities | Huawei |  | WI UPEAS\_Ph2  CAT B |
|  | **Plenary** | [4180](./docs/C4-244180.zip) | CR 29.510 1064 Rel-19 Discovery of UPF based on supported operator configurable UPF capability | Huawei |  | WI UPEAS\_Ph2  CAT B |
|  | **Plenary** | [4319](./docs/C4-244319.zip) | CR 29.510 1086 Rel-19 Adding new UPF capabilities | IPLOOK |  | WI UPEAS\_Ph2  CAT B |
|  | **Plenary** | [4067](./docs/C4-244067.zip) | CR 29.503 1320 Rel-19 Required and/or Preferred UPF functionalities in subscription data | Ericsson |  | WI UPEAS\_Ph2  CAT B  Overlapping with 4135, 4175 |
|  | **Plenary** | [4135](./docs/C4-244135.zip) | CR 29.503 1323 Rel-19 Support of optional extended UPF functionalities | Nokia |  | WI UPEAS\_Ph2  CAT B |
|  | **Plenary** | [4175](./docs/C4-244175.zip) | CR 29.503 1338 Rel-19 Support of optional extended UPF functionalities | Huawei |  | WI UPEAS\_Ph2  CAT B |
|  | **Plenary** | [4073](./docs/C4-244073.zip) | CR 29.510 1048 Rel-19 Discovering the serving UPF for a PDU session using the UE IP address | Ericsson |  | WI UPEAS\_Ph2  CAT B  Overlapping with 4153 |
|  | **Plenary** | [4153](./docs/C4-244153.zip) | CR 29.510 1062 Rel-19 Clarify ipv4AddressRanges used for UPF discovery by NEF | ZTE |  | WI UPEAS\_Ph2  CAT B |
|  | **Plenary** | [4092](./docs/C4-244092.zip) | CR 29.564 0109 Rel-19 Public UE IP address exposure | Huawei |  | WI UPEAS\_Ph2  CAT B  Overlapping with 4191, 4225 |
|  | **Plenary** | [4191](./docs/C4-244191.zip) | CR 29.564 0112 Rel-19 Supporting UE NAT Mapping Event Exposure | Ericsson |  | WI UPEAS\_Ph2  CAT B |
|  | **Plenary** | [4225](./docs/C4-244225.zip) | CR 29.564 0116 Rel-19 New UPF event to get the NATed UE public IP address and port number | Nokia |  | WI UPEAS\_Ph2  CAT B |
|  | **Plenary** | [4093](./docs/C4-244093.zip) | CR 29.564 0110 Rel-19 Supporting UPF event exposure subscription directly using UE’s IP address | Huawei |  | WI UPEAS\_Ph2  CAT B  Overlapping with 4192, 4224 |
|  | **Plenary** | [4192](./docs/C4-244192.zip) | CR 29.564 0113 Rel-19 Supporting direct subscription of UPF event exposure using UE’s IP address | Ericsson |  | WI UPEAS\_Ph2  CAT B |
|  | **Plenary** | [4224](./docs/C4-244224.zip) | CR 29.564 0115 Rel-19 Direct subscription to UPF event exposure using a UE IP address | Nokia, Huawei |  | WI UPEAS\_Ph2  CAT B |
|  | **Plenary** | [4094](./docs/C4-244094.zip) | CR 29.564 0111 Rel-19 UPF event exposure during UPF relocation | Huawei |  | WI UPEAS\_Ph2  CAT B |
|  | **Plenary** | [4151](./docs/C4-244151.zip) | Work Plan Rel-19 Work Plan for UPEAS\_Ph2 | ZTE |  |  |
| **19.38** | **Rel-19 Enhancements of Network Automation Enablers [eNetAE19]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **19.39** | **CT aspects of Core Network Enhanced Support for Artificial Intelligence (AI) and Machine Learning (ML) [AIML\_CN]** |  |  |  |  |  |
|  | **Plenary** | [4077](./docs/C4-244077.zip) | discussion Rel-19 Work plan for the CT part of AIML\_CN | vivo | Noted |  |
|  | **Plenary** | [4258](./docs/C4-244258.zip) | CR 29.503 1343 Rel-19 LMF as Consumer of User Consent Subscription Data | Ericsson | Revised to C4-244355 | WI AIML\_CN  CAT B |
|  |  | [4355](./docs/C4-244355.zip) | CR 29.503 1343 Rel-19 LMF as Consumer of User Consent Subscription Data | Ericsson, Nokia |  |  |
| **19.40** | **CT aspects of Next Generation Real time Communication services [NG\_RTC\_Ph2]** |  |  |  |  |  |
|  | **Breakout** | [4108](./docs/C4-244108.zip) | CR 29.175 0019 Rel-19 Supporting of network initiated IMS Data Channel | China Mobile |  | WI NG\_RTC\_Ph2  CAT B |
|  | **Breakout** | [4233](./docs/C4-244233.zip) | CR 29.175 0021 Rel-19 Definition of Nimsas\_ImsSessionManagement Service | Huawei |  | WI NG\_RTC\_Ph2  CAT B |
|  | **Breakout** | [4234](./docs/C4-244234.zip) | CR 29.175 0022 Rel-19 Support of interworking with MTSI client | Huawei |  | WI NG\_RTC\_Ph2  CAT B |
|  | **Breakout** | [4235](./docs/C4-244235.zip) | CR 29.176 0021 Rel-19 Support of interworking with MTSI client | Huawei |  | WI NG\_RTC\_Ph2  CAT B |
|  | **Breakout** | [4236](./docs/C4-244236.zip) | CR 29.364 0054 Rel-19 Support of Standalone DC | Huawei |  | WI NG\_RTC\_Ph2  CAT B |
| **19.41** | **CT aspects of application enablement for AIML services [AIML\_App]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **19.42** | **CT aspects for application enablement for mobile metaverse services [Metaverse\_App]** |  |  |  |  |  |
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| **19.43** | **CT Aspects of Vehicle Mounted Relays Phase 2 [VMR\_Ph2]** |  |  |  |  |  |
|  | **Plenary** | [4156](./docs/C4-244156.zip) | Work Plan Rel-19 Work plan for VMR\_Ph2 | Qualcomm Incorporated | Noted |  |
|  | **Breakout** | [4157](./docs/C4-244157.zip) | CR 29.572 0288 Rel-19 Support of location service in MWAB | Qualcomm Incorporated |  | WI VMR\_Ph2  CAT B  Overlapping with 4177, 4308 |
|  | **Breakout** | [4177](./docs/C4-244177.zip) | CR 29.572 0291 Rel-19 Add MWAB indication | Huawei |  | WI VMR\_Ph2  CAT B |
|  | **Breakout** | [4308](./docs/C4-244308.zip) | CR 29.572 0294 Rel-19 Support for MWAB involved positioning | CATT |  | WI VMR\_Ph2  CAT B |
|  | **Breakout** | [4176](./docs/C4-244176.zip) | CR 29.515 0187 Rel-19 Add MWAB indication | Huawei |  | WI VMR\_Ph2  CAT B  Overlapping with 4199, 4289 |
|  | **Breakout** | [4199](./docs/C4-244199.zip) | CR 29.515 0188 Rel-19 Support of location service in MWAB | Qualcomm Incorporated |  | WI VMR\_Ph2  CAT B |
|  | **Breakout** | [4289](./docs/C4-244289.zip) | CR 29.515 0189 Rel-19 Adding MWAB positioning indication | Nokia |  | WI VMR\_Ph2  CAT B |
|  | **Plenary** | [4186](./docs/C4-244186.zip) | CR 29.510 1069 Rel-19 Discovery of LMF that supports LCS when MWAB is involved | Huawei | Not Pursued | WI VMR\_Ph2  CAT B  Overlapping with 4311  The existing mechanism can already serve the purpose |
|  | **Plenary** | [4311](./docs/C4-244311.zip) | CR 29.510 1085 Rel-19 LMF supports LCS when MWAB is involved | Nokia | Not Pursued | WI VMR\_Ph2  CAT B |
| **19.44** | **Alignment of eCall over IMS with CEN [eCallCEN]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **19.45** | **CT aspects of Multi-Access (ATSSS\_Ph4) [MASSS]** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **20** | **Study Items** |  |  |  |  |  |
| **20.1** | **Study on Protocol for AI Data Collection from UPF [FS\_PAIDC-UPF]** |  |  |  |  |  |
|  | **Plenary** | [4079](./docs/C4-244079.zip) | pCR 29.889 Rel-19 Pseudo-CR on the Solution X to the Key Issue 1- efficient alternative protocol on Data collection | Huawei, China Mobile |  |  |
|  | **Plenary** | [4130](./docs/C4-244130.zip) | pCR 29.889 Rel-19 solution to key\_issue#1 Optimized UPF data collection based on existing mechanisms | China Mobile |  |  |
|  | **Plenary** | [4226](./docs/C4-244226.zip) | pCR 29.889 Rel-19 Pseudo-CR on Description of existing UPF data collection mechanisms | Nokia |  |  |
|  | **Plenary** | [4227](./docs/C4-244227.zip) | pCR 29.889 Rel-19 Pseudo-CR on Use cases and protocol requirements for intensive data collection from UPF | Nokia |  |  |
|  | **Plenary** | [4228](./docs/C4-244228.zip) | pCR 29.889 Rel-19 Pseudo-CR on Addressing the Editor's notes of Solution #2 | Nokia |  |  |
|  | **Plenary** | [4229](./docs/C4-244229.zip) | pCR 29.889 Rel-19 Pseudo-CR on Provisioning of user and/or PDU session’s markers | Nokia |  |  |
|  | **Plenary** | [4230](./docs/C4-244230.zip) | pCR 29.889 Rel-19 Pseudo-CR on Reduced Report Instructions Information | Nokia |  |  |
|  |  |  | TR 29.889v0.2.0 | China Mobile |  |  |
| **20.2** | **Study on Reducing Information Exposure over SBI [FS\_RedInfExp\_SBI]** |  |  |  |  |  |
|  | **Plenary** | [4046](./docs/C4-244046.zip) | pCR 29.857 Rel-18 Removal of Editor's Notes | Nokia |  |  |
|  |  |  | TR 29.857v1.3.0 | Samsung |  |  |
| **20.3** | **Study on IMS Disaster Prevention and Restoration Enhancement [FS\_IMS\_RES]** |  |  |  |  |  |
|  | **Plenary** | [4138](./docs/C4-244138.zip) | pCR 29.866 Rel-18 Pseudo-CR on updating the evaluation and conclusion of KI #3 | ZTE, Ericsson |  |  |
|  | **Plenary** | [4237](./docs/C4-244237.zip) | pCR 29.866 Rel-18 Update KI#3 evaluation and add KI#3 conclusion | Huawei, ZTE, Ericsson |  |  |
|  | **Plenary** | [4284](./docs/C4-244284.zip) | pCR 29.866 Rel-18 Pseudo-CR on KI#4 Solution #10 | Ericsson |  |  |
|  | **Plenary** | [4285](./docs/C4-244285.zip) | pCR 29.866 Rel-18 Pseudo-CR on evaluation KI#4 | Ericsson |  |  |
|  |  |  | TR 29.866v1.2.0 | China Telecom |  |  |
| **21** | **Any other business** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **22** | **Future meetings** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **23** | **Close of Meeting** |  |  |  |  |  |