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# 3GPP TSG-CT WG4 Meeting #123C4-242006

**Hyderabad, India, 27th–31st May 2024**

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

**Title: Proposed allocation of documents to agenda items for CT4#123, status on eve of meeting**

**Agenda item: 2**

**Document for: INFORMATION**

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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.

| Agenda | Agenda Title | Tdoc  C4-24# | Tdoc Title | Source | Result | Notes |
| --- | --- | --- | --- | --- | --- | --- |
| **1** | **Opening of the Meeting and Approval of the Agenda** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **2** | **Allocation of Documents to Agenda Items** |  |  |  |  |  |
|  |  | [2001](./docs/C4-242001.zip) | agenda Draft Agenda | CT4 Chair | Noted |  |
|  |  | [2002](./docs/C4-242002.zip) | other eMeeting guidelines for CT4 Working Group meeting | CT4 Chair | Noted |  |
|  |  | [2003](./docs/C4-242003.zip) | agenda Detailed agenda & time plan for CT4 meeting: status at document deadline | CT4 Chair | Noted |  |
|  |  | [2004](./docs/C4-242004.zip) | agenda Detailed agenda & time plan for CT4 meeting: status on eve of meeting | CT4 Chair | Noted |  |
|  |  | [2005](./docs/C4-242005.zip) | agenda Proposed allocation of documents to agenda items for CT4 meeting: status at document deadline | CT4 Chair | Noted |  |
|  |  | [2006](./docs/C4-242006.zip) | agenda Proposed allocation of documents to agenda items for CT4 meeting: status on eve of meeting | CT4 Chair | Noted |  |
|  |  | 2007 | agenda The allocation of documents to agenda items for CT4 meeting: status at the end of meeting | CT4 Chair |  |  |
| **3** | **Meeting Reports** |  |  |  |  |  |
|  |  | 2008 | report Previous TSG CT & SA Status Report | CT4 Chair | withdrawn |  |
|  |  | 2009 | report Previous CT4 meeting report | MCC | Approved |  |
| **4** | **Input Liaison Statements** |  |  |  |  |  |
|  |  | [2050](./docs/C4-242050.zip) | LS in LS “N32-f lifetime and reconnection” to 3GPP CT4/SA3 | 5GMRR | Postponed | *5GMRR Doc 45\_07r1*  *To: CT4, SA3*  *CC:*  *Postponed from CT4#121*  *“Mamdoh: requirement already exists in 29.500, will provide reply LS*  *Jesus: is 29.573 CR needed ?*  *Corresponding 29.573 CR is needed, it will be provided to the next meeting thus the LS is postponed to the next meeting”*  *Postponed from CT4#122* |
|  |  | [2051](./docs/C4-242051.zip) | LS in Rel-18 LS on IVAS in MTSI, including RTP and SDP parameters | SA4 | Noted | *S4-240845*  *To: 3GPP CT1, 3GPP CT3, 3GPP CT4*  *CC: fraunhofer*  *SA4 is about to conclude the Immersive Voice and Audio Services Codec (IVAS\_codec) work item in Release 18 and has completed the work on the related specifications TS 26.250, TS 26.252, TS 26.253, TS 26.254, TS 26.255, TS 26.256, TS and 26.258. Part of TS 26.253 is the specification for the "RTP payload format and SDP parameters" in Annex A. In addition the CR related to TS 26.114 for IVAS introduction has been brought to a stable state.*  *At its recent SA4#127-bis-e meeting SA4 has endorsed the attached CRs for TS 26.114 (IVAS introduction into MTSI) and TS 26.253 (Annex A on RTP payload format and SDP format parameters) and considers those being a stable basis for other specifications depending on them for supporting the IVAS codec, which includes the CT specifications of relevance.*  *SA4 would like to ask CT1, CT3 and CT4 to take the above information into account as part of their work on the respective aspects of IVAS\_Codec and base their work on the endorsed CRs in documents S4-240653 and S4-240664.*  *Related contributions under agenda item 6.1.17* |
|  |  | [2052](./docs/C4-242052.zip) | LS in Rel-18 LS on ECS Configuration Information | CT WG1 | Noted | *C1-242674*  *To: SA2, SA3, SA6*  *CC: CT3, CT4*  *Contact: Samsung*  *CT1 raised couple of questions to SA2, SA3, SA6 regarding ECS configuration info*  *Propose to note* |
|  |  | 2053 | LS in Rel-18 Reply LS on LS on Creation of private branches on the GitLab "5G\_APIs" repository | SA WG5 | withdrawn | *S5-241920*  *To: 3GPP CT4*  *CC: 3GPP CT1, CT3, SA4, SA* |
|  |  | [2054](./docs/C4-242054.zip) | LS in Rel-19 LS on the stage 2 aspects of MINT\_Ph2 | CT WG1 | Noted | *C1-242675*  *To: TSG SA*  *CC: TSG CT, SA2, CT4*  *Contact: China Telecom*  *CT1 has discussed a WID proposal for MINT support in EPS (MINT\_Ph2\_EPS) in the CT1 April meeting, in order to support the following stage 1 service requirement specified in Rel-19 MINT\_Ph2 by SA1:*  *“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.”*  *The WID proposal on MINT\_Ph2\_EPS includes both stage-2 and stage-3 aspects. The failure scenarios of the WID proposal is limited to RAN failure, consistent with the failure scenarios of Rel-17 MINT. With this, similar as working procedure done for Rel-17 MINT, CT1 is planning to define 4G PLMN selection for disaster roaming and end-to-end call flow regarding attach procedure after selection of a disaster roaming 4G PLMN.*  *CT1 would like to ask TSG SA if there is any concern on this approach and expects any feedback on this way forward so that the normative phase can progress within Rel-19 timeframe.*  *Propose to note* |
|  |  | [2055](./docs/C4-242055.zip) | LS in Rel-18 LS on Indicating the support of slice based N3IWF/TNGF selection from the UE to the network | CT WG1 | Noted | *C1-242934*  *To: SA2*  *CC: CT3, CT4*  *Contact: Nokia*  *As per the current stage 2 requirements, the UE already indicates to the AMF whether it supports the slice-based N3IWF selection and/or the slice-based TNGF selection within the REGISTRATION REQUEST message during the registration procedure, which is in line with the legacy approach.*  *However, as per the above stage 2 NOTEs, the UE also provides separate indications to the PCF about supporting those features. CT1 does not see the reason to step away from the legacy approach in which the AMF indicates to the PCF whether the UE supports slice-based N3IWF selection and/or the slice-based TNGF selection as this is aligned the protocol design defined from Rel-15. CT1 therefore asks SA2 to consider re-using the existing approach.*  *Propose to note* |
|  |  | [2056](./docs/C4-242056.zip) | LS in Rel-18 Question on GPSI and Application Layer ID Mapping | CT WG3 | Noted | *C3-242616*  *To: SA2*  *CC: CT4*  *Contact: Ericsson*  *CT3 would like to ask SA2:*  *Question: Among the Nnef\_UEId API and Nnef\_ServiceParameter API, which one is better to implement the GPSI and Application Layer ID Mapping?*  *Propose to note* |
|  |  | [2057](./docs/C4-242057.zip) | LS in Rel-18 LS on application layer ID | RAN WG2 | Noted | *R2-2403809*  *To: SA2, CT1, CT4*  *CC:*  *Contact: Huawei*  *RAN2 has agreed to add application layer ID in the SLPP header.*  *RAN2 respectfully asks SA2, CT1 and CT4 to take the above agreement into account.* |
|  |  | [2058](./docs/C4-242058.zip) | LS in Rel-18 Reply to LS on Subscription of Data Channel | SA WG2 | Noted | *S2-2405107*  *To: CT4*  *CC: CT1*  *Contact: Samsung*  *SA2 clarifies to CT4 that, the CR (C4-240719) fulfils stage 2 requirement of Data Channel subscription data and no extra information should be specified besides the authorization information.*  *Propose to note* |
|  |  | [2059](./docs/C4-242059.zip) | LS in Rel-18 Reply LS on Rel-18 RedCap enhancements to address remaining ENs in TS 23.502 | SA WG2 | Noted | *S2-2405421*  *To: RAN2, RAN3, CT1*  *CC: CT4*  *Contact: Huawei*  *SA2 thanks RAN2 and CT1 LSs in the S2-2403889/R2-2401888 and S2-2403873/C1-241809. SA2 would like to provide the latest progress on REDCAP:*  *- NR eRedCap indication is agreed to be included into the NGAP Initial UE message and the AMF shall store the NR eRedCap Indication in the UE context, consider that the RAT type is NR eRedCap, see 23.501 CR5254 (attached).*  *- During handover from E-UTRA to NR, the target NG-RAN (i.e. gNB) provides the NR eRedCap indication to AMF in NGAP Path Switch Request message during Xn handover, or NGAP Handover Request Acknowledge message during N2 handover (including intra 5GS N2 handover and EPS to 5GS handover) based on the UE capability information provided by the source RAN to the target RAN.*  *- SA2 has also agreed CR5371 for TS 23.501 (attached) to clarify that the UE provided (e)RedCap indication matches the UEs radio capabilities when accessing the network.* |
|  |  | [2060](./docs/C4-242060.zip) | LS in Rel-18 Reply to LS on provisioning ATSSS rules to the UE in EPC | SA WG2 | OPEN | *S2-2405458*  *To: CT1*  *CC: CT4*  *Contact: Samsung, NEC*  *SA2 thanks CT1 to clarify on the provisioning ATSSS rules to the UE in EPC.*  *CT1 asks a question with clause 4.22.2.3.1 in TS 23.502 text specified in Rel-17 and clause 4.22.2.4.1 in TS 23.502 text specified in Rel-18, as below:*  *Why can ATSSS rules be provided via untrusted non-3GPP access to EPC but not via 3GPP access?*  *SA2 wants to provide answer as below:*  *In R17, the ATSSS Rules is not provided via 3GPP access to EPC, in order to minimize the impact on EPC.*  *In R18, the ATSSS feature is enhanced to provide the ATSSS Rules via untrusted non-3GPP access to EPC, without further work on providing the ATSSS rule via 3GPP access to EPC.*  *SA2 at present has no agreement to further update the specification.*  *\*\*\**  Related CRs being proposed in CT1 and CT4.  Some techincal issues are raised few meetings ago.  Length of ePCO IE,  CT1 how to inform UE in 3GPP and non-3GPP access from EPC  Wait for CT1 discussion before we agree CT4 changes.  It should be possible to provide ATSSS rules over non-3GPP from EPC  For CT4 part, 2094  We need to align the changes in CT1 and CT4  ZTE paper covers the issue.  ZTE is fine to wait for CT1 agreement before CT4. |
|  |  | [2061](./docs/C4-242061.zip) | LS in Rel-18 LS reply on LCS user plane connection binding to the UE | SA WG2 | Noted | *S2-2405797*  *To: CT1*  *CC: CT4, RAN2*  *Contact: CATT*  SA2 thanks CT1 for the liaison in S2-2403871/C1-241722 concerning the establishment and usage of a secure user plane connection between a UE and LMF for the transfer of LPP and certain LCS supplementary service messages.  SA2 notes the following issues cited by CT1.  *1. After the TLS connection is established, the UE and the LMF initiate LPP or LCS-SS procedure. For the LMF-initiated case, given that multiple UEs are served by the LMF and multiple TLS connections are active, the LMF needs to determine a TLS connection for the target UE. However, it has not been specified how to link the association between the TLS connection and the UE, e.g., how the LMF knows which TLS connection is for the UE who has received the UPP-CM command message. If the TLS connection can be linked to the ‘wrong UE’ then there could be a risk of location related data from one UE which is sent to another UE.*  *2. Once the binding of the TLS connection to the UE is done, if there is a new LCS service request (e.g., MT-LR) for the same UE, the AMF invokes Nlmf\_location\_determinelocation service operation to the LMF. However, it has not been specified how the LMF associates the LCS service request to the TLS connection of the UE. In this case, the LMF cannot determine which TLS connection can be used for the LCS service request. Therefore, the LMF cannot reuse the TLS connection of this UE for subsequent LCS service request(s).*  SA2 has discussed above issues and agreed resolutions as bellow:  **Resolution of Issue 1:** The LMF allocates an ID (e.g. LCS UP connection ID), to be used to associate with the LCS UP connection (and configuration for the connection to be established) for the UE.  **Resolution of Issue 2:** If UE supports user plane positioning capability, the AMF shall include the same UE ID (i.e. SUPI or GPSI, existing parameters) in the subsequent Nlmf\_Location\_DetermineLocation request, LMF does the correlations of <SUPI or GPSI, LCS UP connection ID >.  SA2 has agreed the attached CR to TS 23.273 to resolve both issues.  *\*\*\**  *Related CRs in 2202, 2237* |
|  |  | [2062](./docs/C4-242062.zip) | LS in Rel-18 Reply LS on LS on Creation of private branches on the GitLab "5G\_APIs" repository | SA WG5 | Noted | *S5-241920*  *To: 3GPP CT4*  *CC: 3GPP CT1, CT3, SA4, SA*  *Contact: Nokia Shanghai Bell* 1 Overall description SA5 thanks CT4 for the LS on Creation of private branches on the GitLab "5G\_APIs" repository in document C4-240636.  Please find SA5’s reply below:  SA5 is using “https://forge.3gpp.org/rep/sa5” as working repository to store and validate Forge code, and synchronize the validated OpenAPI code to "5G\_APIs" repository to support unified 3GPP OpenAPI publication. There is no requirement for individual branches created under "5G\_APIs" repository from SA5. SA5 code moderators will use the release draft branch only in "5G\_APIs" repository without creating new branches or new private repositories.  We would like to inform CT4, to fully leverage Forge/git as a version control system for a collaborative development environment, in SA5, we encourage CR authors to create CR development branch (private branch) under SA5 Forge repository when needed. The CR development branch may be used for immediate SA5 meeting or meetings in near future. SA5 working procedure provides guidance for the SA5 Forge repository branch naming conventions and branch clean up procedures to control the branch life span.  *\*\*\** |
|  |  | [2063](./docs/C4-242063.zip) | LS in LS on MBS Communication Service Type | SA WG5 | Noted | *S5-242038*  *To: CT4*  *CC: RAN3*  *Contact: Ericsson*  SA5 has discussed and agreed to add MBS Communication Service Type IE into the QMCJob, which indicates whether doing QoE measurement shall be performed for MBS broadcast or multicast. This IE is used for both signaling and management based QoE measurement.  For more details, please see the agreed CR.  *\*\*\** |
|  |  | [2064](./docs/C4-242064.zip) | LS in LS on clarifications on consent management | GSMA OPG | OPEN | *OPG\_173\_Doc\_04*  *To: 3GPP SA3, 3GPP CT4, 3GPP CT3, 3GPP SA6*  *CC: 3GPP SA2, 3GPP SA*  *Contact: Nokia*  Given the above context, GSMA OPG would like to get clarification from 3GPP on the following:   1. When NEF or EES (as trusted AF) is exposing APIs using CAPIF RNAA, how is NEF or EES utilizing the UDM’s user consent information for processing authorization for API consumer/invoker? 2. What is the relationship between CAPIF RNAA and UDM’s user consent information? Is there any plan/roadmap for a unified approach? 3. For the UDM’s user consent information, are the user consent management aspects (e.g. capturing or revoking user consent from the subscriber) specified? Please illustrate. 4. Is there any plan/roadmap for considering other legal bases for processing personal data apart from user consent (e.g. contract, legal obligations, vital interests of the data subject, public interest, and legitimate interest [[GDPR](https://gdpr-info.eu/)]) in a unified way? 5. What are the privacy considerations in 3GPP with respect to exposure of sensitive information (e.g. UE ID, location) to untrusted AFs.   *\*\*\** |
|  |  | [2291](./docs/C4-242291.zip) | LS in Reply-LS on clarifications on consent management | SA3 | OPEN | *S3-242374*  *To: SA*  *CC: SA2, SA6, CT3, CT4*  *Contact: Nokia* |
|  |  | [2292](./docs/C4-242292.zip) | LS in Rel-18 Reply-LS on GSMA CVD-2023-0069 5G Core Network Attacks | SA3 | Revised to C4-242320 | *S3-242453*  *To: GSMA CVD*  *CC: CT4*  *Contact: Huawei*  Attachment seems to be wrong, S3-240895 is mentioned but S3-241895 is attached.  Kimmo to ask for revision.  Does CT4 formally access to GSMA papers being referred?  Roya: should we postpone?  We probably need the original LS from GSMA. |
|  |  | [2320](./docs/C4-242320.zip) | LS in Rel-18 Reply-LS on GSMA CVD-2023-0069 5G Core Network Attacks | SA3 |  |  |
|  |  | [2293](./docs/C4-242293.zip) | LS in Rel-18 Reply LS on ECS configuration information | SA3 | OPEN | *S3-242620*  *To: CT1*  *CC: SA2, SA6, CT3, CT4*  *Contact: Huawei*  Revision being asked by Kimmo due to attachment |
|  |  | [2294](./docs/C4-242294.zip) | LS in Rel-18 LS on IVAS RTP payload format and support in MTSI | SA4 | Noted | *S4-241341*  *To: CT1, CT3, CT4*  *CC:*  *Contact: Orange* |
|  |  | [2295](./docs/C4-242295.zip) | LS in Rel-18 Reply LS on ECS Configuration Information | SA6 | Noted | *S6-242733*  *To: CT1*  *CC: SA2, SA3, CT3, CT4*  *Contact: Samsung* |
|  |  | [2316](./docs/C4-242316.zip) | LS in Rel-18 Reply LS on Restoration procedures for a PDU Session with Dual Connectivity | RAN3 | Noted | *R3-243968*  *To: CT4*  *CC:*  *Contact: Ericsson* |
| **5** | **WIDs** |  |  |  |  | *.* |
| **5.1** | **CT4 Led WIs** |  |  |  |  | *.* |
|  |  | [2103](./docs/C4-242103.zip) | discussion Rel-19 State of Rel-19 work related to additional enhancements for Uncrewed Aerial System in other WGs | Ericsson | Noted | Corresponding SA2 WI has NOT been approved  Proposal to have rapporteurship from Ericsson and LGE   Should be one (pointed out from CT persprctive) |
|  |  | [2141](./docs/C4-242141.zip) | WID revised Rel-18 CT Aspects of Edge Computing Phase 2 | Huawei | Revised to C4-242296 | Wait for SA2 response to agree the changes related to CT4.  Completion target meeting, should it be extended without exception? To be checked with CT Chair |
|  |  | [2296](./docs/C4-242296.zip) | WID revised Rel-18 CT Aspects of Edge Computing Phase 2 | Huawei |  |  |
|  |  | [2104](./docs/C4-242104.zip) | WID revised Rel-18 Revised WID on CT impacts of EVS Codec Extension for Immersive Voice and Audio Services | Nokia | Agreed |  |
|  |  | [2134](./docs/C4-242134.zip) | WID new Rel-19 Subscriber Data Migration | Ericsson | Revised to C4-242297 | Any impact on AANF (related to AKMA)? (From CMCC)  Need to make sure the split with SA5 remit.  Question whether any updates on consumer NFs.  Nokia, Huwei, China Telecom |
|  |  | [2297](./docs/C4-242297.zip) | WID new Rel-19 Subscriber Data Migration | Ericsson |  |  |
|  |  | [2180](./docs/C4-242180.zip) | discussion Rel-19 Discussion on TEI19\_MINPA WID | Ericsson | Noted |  |
|  |  | [2181](./docs/C4-242181.zip) | WID new Rel-19 New WID on CT Aspects on TEI19\_MINPA | Ericsson | Revised to C4-242298 | Nokia, Huawei, ZTE, China Telecom, Intel supports  29.571 changes not required as it is Boolean information |
|  |  | [2298](./docs/C4-242298.zip) | WID new Rel-19 New WID on CT Aspects on TEI19\_MINPA | Ericsson |  |  |
|  |  | [2198](./docs/C4-242198.zip) | WID new Rel-19 New WID on Service Based Interface Protocol Improvements Release 19 | China Mobile | Agreed |  |
|  |  | [2235](./docs/C4-242235.zip) | WID new Rel-19 New SID on AI Data Collection And Protocol Release 19 | China Mobile | Revised to C4-242299 | Bruno:  Nokia can support if comments below are captured.  Scope should remain in the remit of existing architecture, i.e. study on notification.  Study should also on existing protocol.  Adding Subcription and reporting might help, and so these can be considered for the study.  Proper justification over existing protocol should be covered in Justification.  Should not be limited to UPF event exposure, where similar cases can be covered.  Should not be limited to 5GC but should be applicable for e.g. 6G or future, so that it is future proof.  SID should be updated to include these comments.  Nokia will not agree if the scope is not limited to UPF exposure.  Frank:  Cannot agree based on comments in 2236.  PFCP already supports reporting for different PFCP sessions, so efficiency is already covered.  Shunsuke:  Since Rel19 is supposed to be the last release, agree with the comment for requiring future proof protocol.  Having multiple protocol increases cost and so should have clear justification.  Marujua:  Orange supports the new SID.  With the experiment on PFCP, see the benefit in the study. |
|  |  | [2299](./docs/C4-242299.zip) | WID new Rel-19 New SID on AI Data Collection And Protocol Release 19 | China Mobile |  |  |
|  |  | [2236](./docs/C4-242236.zip) | discussion Rel-19 Discussion on Protocol Optimization for AI Data Collection | China Mobile | Noted | Frank: still have concern with the study. UPF is still capable for handling.  TCP based / UDP based is well known.  Transmission of message is very small portion of load  CP/UP separation, defined UPF event notification over HTTP as additional guideline, so going against this guideline is not sufficient  If really required, clear stage2 requirement should be specified. |
| **5.2** | **CT4 Supported WIs** |  |  |  |  | *.* |
|  |  | [2096](./docs/C4-242096.zip) | WID revised Rel-18 Revised WID on CT aspects of enhancement of 5G UE Policy | Intel | Endorsed | Related CR in 2284 (to 29.502), and should agree the CR to agree this WID update. |
|  |  | [2131](./docs/C4-242131.zip) | WID new Rel-19 Protocol enhancements for Mission Critical Services | Ericsson | Revised to C4-242300 | Updates already discussed in CT3, and requires update  Huawei supports  Justification needs to include ongoing SA6 work.  Objective should clarify impacts for each WG. |
|  |  | [2300](./docs/C4-242300.zip) | WID new Rel-19 Protocol enhancements for Mission Critical Services | Ericsson |  |  |
|  |  | [2135](./docs/C4-242135.zip) | WID new Rel-19 CT aspects of Providing per-subscriber VLAN instructions from UDM and DN-AAA | Ericsson | Revised to C4-242301 |  |
|  |  | [2301](./docs/C4-242301.zip) | WID new Rel-19 CT aspects of Providing per-subscriber VLAN instructions from UDM and DN-AAA | Ericsson |  |  |
|  |  | [2136](./docs/C4-242136.zip) | discussion Rel-19 Rel-19 WI on Providing per-subscriber VLAN instructions from UDM and DN-AAA | Ericsson | Noted |  |
|  |  | [2137](./docs/C4-242137.zip) | discussion Rel-19 Rel-19 WI on Enhancing Parameter Provisioning with static UE IP address and UP security policy | Ericsson | Noted |  |
|  |  | [2138](./docs/C4-242138.zip) | WID new Rel-19 CT aspects of Enhancing Parameter Provisioning with static UE IP address and UP security policy | Ericsson | Revised to C4-242302 |  |
|  |  | [2302](./docs/C4-242302.zip) | WID new Rel-19 CT aspects of Enhancing Parameter Provisioning with static UE IP address and UP security policy | Ericsson |  |  |
|  |  | [2195](./docs/C4-242195.zip) | WID new Rel-19 New WID on enhancement of controlling RAT utilization | Vodafone GmbH | Revised to C4-242303 | From CT4 perspective, Stage2 requirement should be clarified.  If it comes from 23.122, this should be clarified. |
|  |  | [2303](./docs/C4-242303.zip) | WID new Rel-19 New WID on enhancement of controlling RAT utilization | Vodafone GmbH |  |  |
|  |  | [2271](./docs/C4-242271.zip) | discussion Rel-19 Rel-19 Enhancements of UE Policy | Ericsson | Noted | Roya: clause 2.1 needs to be further clarified in the actual WID. |
|  |  | [2281](./docs/C4-242281.zip) | discussion Rel-19 "Steering of Roaming (SoR) during the registration" part of Roaming value-added services | Ericsson | Noted | Notification shown on 2nd missing item seems to require stage2 clarfication.  SA2 has mini-WID for Rel19 on RVAS. It seems to clash.   * SOR-AF has impact , and this WID needs to clarify the issue. * CT1 discussed and objected to do work split.   ZTE supports to split the notification and RVAS discussion as it has different aspect.  Hanna: prefer not to split  Jesus:  Who will do the stage2 aspect for RVAS if SOR-AF aspect? |
|  |  | [2282](./docs/C4-242282.zip) | WID new Rel-19 "Steering of Roaming (SoR) during the registration" part of Roaming value-added services | Ericsson | Revised to C4-242304 |  |
|  |  | [2304](./docs/C4-242304.zip) | WID new Rel-19 "Steering of Roaming (SoR) during the registration" part of Roaming value-added services | Ericsson |  |  |
| **6** | **Release 18** |  |  |  |  |  |
| **6.1** | **CT4 Led WIs** |  |  |  |  |  |
| **6.1.1** | **Service based Interface protocol improvements** |  |  |  |  | SBIProtoc18 |
|  | **Plenary** | [2012](./docs/C4-242012.zip) | CR 29.500 0426 Rel-18 Header case | Nokia | Revised to C4-242305 | WI SBIProtoc18  CAT F |
|  |  | [2305](./docs/C4-242305.zip) | CR 29.500 0426 Rel-18 Header case | Nokia |  |  |
|  | **Plenary** | [2013](./docs/C4-242013.zip) | CR 29.500 0432 Rel-18 Clarification on Feature Negotiation | Nokia | Revised to C4-242306 | WI SBIProtoc18  CAT F |
|  |  | [2306](./docs/C4-242306.zip) | CR 29.500 0432 Rel-18 Clarification on Feature Negotiation | Nokia |  |  |
|  | **Breakout** | [2014](./docs/C4-242014.zip) | CR 29.503 1258 Rel-18 EmergencyInfo clarification | Nokia |  | WI SBIProtoc18  CAT F |
|  | **Breakout** | [2015](./docs/C4-242015.zip) | CR 29.503 1259 Rel-18 Missing descriptions in Nudm\_SDM API | Nokia |  | WI SBIProtoc18  CAT F |
|  | **Breakout** | [2016](./docs/C4-242016.zip) | CR 29.563 0088 Rel-18 UeContextInPgw modification | Nokia | Revised to C4-242400 | WI SBIProtoc18  CAT F |
|  |  | [2400](./docs/C4-242400.zip) | CR 29.563 0088 Rel-18 UeContextInPgw modification | Nokia |  |  |
|  | **Breakout** | [2020](./docs/C4-242020.zip) | CR 29.509 0218 Rel-18 Default Configured S-NSSAIs | Nokia |  | WI SBIProtoc18  CAT F |
|  | **Main** | [2046](./docs/C4-242046.zip) | CR 29.518 1077 Rel-18 Handling of unsupported event subscription | Huawei |  | WI SBIProtoc18  CAT B |
|  | **Plenary** | [2048](./docs/C4-242048.zip) | CR 29.500 0428 Rel-18 Indication of Intermediate NF | Ericsson | Revised to C4-242307 | WI SBIProtoc18  CAT F |
|  |  | [2307](./docs/C4-242307.zip) | CR 29.500 0428 Rel-18 Indication of Intermediate NF | Ericsson |  |  |
|  | **Main** | [2076](./docs/C4-242076.zip) | CR 29.673 0057 Rel-18 The term Payload is replaced with Content due to RFC 9113 | Ericsson |  | WI SBIProtoc18  CAT F |
|  | **Plenary** | [2079](./docs/C4-242079.zip) | CR 29.571 0554 Rel-18 Clarification on MNC Encoding | ZTE | Revised to C4-242308 | WI SBIProtoc18  CAT F  Ulrich: have different understanding on with or without leading MNC.  Jesus: understands similar as ZTE, with or without 0 at the beginning should be interpreted same.  Roya: wants to check internally, but prefers different text for clarification.  Ulrich: ITU specifies the MNC, and we should not have our own understanding and update  Zhijun: am fine to change text  Mamdoh: we already have specification saying we can use 2 or 3 digits, so if we start defining new meaning us such, this might create backwards imcomptibility issue  Zhijun:  Jesus: if we have understanding that MNC starting with 0, we have many of these meanings in 23.003 and we need to correct all these |
|  |  | [2308](./docs/C4-242308.zip) | CR 29.571 0554 Rel-18 Clarification on MNC Encoding | ZTE |  |  |
|  | **Main** | [2089](./docs/C4-242089.zip) | CR 29.518 1081 Rel-18 Clarify the condition in which the SMF provides the MD-SDT Control Information to the UPF a new Namf\_MT\_EnableUEReachability request to the AMF | ZTE | Moved to 6.1.4 | WI SBIProtoc18  CAT F |
|  | **Main** | [2116](./docs/C4-242116.zip) | CR 29.502 0779 Rel-18 504 Gateway Timeout in Update SM Context procedure | Nokia |  | WI SBIProtoc18  CAT F |
|  | **Plenary** | [2117](./docs/C4-242117.zip) | CR 29.510 1009 Rel-18 SEPP profile when no remote PLMN is reachable through the SEPP | Nokia | Revised to C4-242309 | WI SBIProtoc18  CAT F  The dummy value is mentioned as "e.g." is this fine?   * This should be left to implementation. * However, fine to change "e.g." to "i.e." so that it is clear in all implementation. Also change "may" to "shall" for the inclusion of dummy MCC MNC   What is the use case for SEPP not connecting to any other PLMN?   * E.g. for SNPN connectivity but no other PLMN * This aspect should be clarified. |
|  |  | [2309](./docs/C4-242309.zip) | CR 29.510 1009 Rel-18 SEPP profile when no remote PLMN is reachable through the SEPP | Nokia |  |  |
|  | **Main** | [2118](./docs/C4-242118.zip) | CR 29.518 1085 Rel-18 Handling of NW triggered SR during an on-going UE triggered SR race condition | Nokia |  | WI SBIProtoc18  CAT F |
|  | **Plenary** | [2139](./docs/C4-242139.zip) | CR 29.510 1012 Rel-18 Clarifications to udrInfo, udmInfo, ausfInfo and pcfInfo | Ericsson | Revised to C4-242310 | WI SBIProtoc18  CAT F  Jesus: need to make sure that the implementation is to be consistent.  Roya: Is there any way to check the logic?   * NRF is not required to check. * If so, we should not make it as normative text but to make it informative. * How to do this? * Make it a note outside of table.   Ulrich: the proposed text is misleading, and "**may not** include" is not in line with drafting rule  Jesus: in a semented network, Group ID should be used, is this the same understanding.  Zhijun: Yes, however use of Group ID is not mandatory, so to align with such implementation the wording should be clarified. |
|  |  | [2310](./docs/C4-242310.zip) | CR 29.510 1012 Rel-18 Clarifications to udrInfo, udmInfo, ausfInfo and pcfInfo | Ericsson |  |  |
|  | **Plenary** | [2140](./docs/C4-242140.zip) | CR 29.510 1013 Rel-18 Matching of ML Analytics Info | Ericsson | Revised to C4-242311 | WI TEI18, eNA\_Ph2  CAT F  Roya requests for more generic description  Bruno: WIC should be TEI18, eNA\_Ph2 |
|  |  | [2311](./docs/C4-242311.zip) | CR 29.510 1013 Rel-18 Matching of ML Analytics Info | Ericsson |  |  |
|  | **Main** | [2142](./docs/C4-242142.zip) | CR 29.531 0202 Rel-18 Returning UNSUPPORTED\_EVENT\_TYPE | Huawei |  | WI SBIProtoc18  CAT B |
|  | **Main** | [2143](./docs/C4-242143.zip) | CR 29.536 0128 Rel-18 Returning UNSUPPORTED\_EVENT\_TYPE | Huawei |  | WI SBIProtoc18  CAT B |
|  | **Plenary** | [2144](./docs/C4-242144.zip) | CR 29.571 0556 Rel-18 Corrections for MDT enhancements to support NPN | Huawei | Agreed | WI SBIProtoc18  CAT B |
|  | **Plenary** | [2145](./docs/C4-242145.zip) | CR 29.571 0557 Rel-18 Description of mbsMediaComps attribute | Huawei | Revised to C4-242315 | WI TEI18, 5MBS  CAT F |
|  |  | [2315](./docs/C4-242315.zip) | CR 29.571 0557 Rel-18 Description of mbsMediaComps attribute | Huawei | Agreed | WOP |
|  | **Main** | [2146](./docs/C4-242146.zip) | CR 29.673 0058 Rel-18 Correction on OpenAPI definition of ManAssOpRequestlist | Huawei | Withdrawn | WI SBIProtoc18  CAT F |
|  | **Main** | [2187](./docs/C4-242187.zip) | CR 29.518 1060 Rel-18 Non-3GPP Not Taken Over Indication | Ericsson |  | WI SBIProtoc18  CAT F |
|  | **Breakout** | [2208](./docs/C4-242208.zip) | CR 29.503 1264 Rel-18 Remove additional application error | Huawei |  | WI SBIProtoc18  CAT F |
|  | **Breakout** | [2209](./docs/C4-242209.zip) | CR 29.505 0506 Rel-18 Syntax of callbacks | Huawei |  | WI SBIProtoc18  CAT F |
|  | **Breakout** | [2210](./docs/C4-242210.zip) | CR 29.515 0177 Rel-18 Returning UNSUPPORTED\_EVENT\_TYPE | Huawei |  | WI SBIProtoc18  CAT B |
|  | **Breakout** | [2211](./docs/C4-242211.zip) | CR 29.572 0267 Rel-18 Returning UNSUPPORTED\_EVENT\_TYPE | Huawei |  | WI SBIProtoc18  CAT B |
|  | **Plenary** | [2212](./docs/C4-242212.zip) | CR 29.571 0562 Rel-18 Update on data type Any type | Huawei | Agreed | WI SBIProtoc18  CAT F |
|  | **Plenary** | [2240](./docs/C4-242240.zip) | CR 29.510 1014 Rel-18 Handling of certificate expiry/re-issue | Samsung | Revised to C4-242317 | WI SBIProtoc18  CAT B  For certificate exipry, who and when does the status change to "suspended"?   * To implementation * It is not the issue for NRF checks this. |
|  |  | [2317](./docs/C4-242317.zip) | CR 29.510 1014 Rel-18 Handling of certificate expiry/re-issue | Samsung |  |  |
|  | **Breakout** | [2242](./docs/C4-242242.zip) | CR 29.503 1255 Rel-18 Missing Description fields in Nudm\_UECM API definition | Ericsson |  | WI SBIProtoc18  CAT F |
|  | **Main** | [2253](./docs/C4-242253.zip) | CR 29.564 0096 Rel-18 Correct the api name of Nupf\_GetUEPrivateIPaddrAndIdentifiers service | CATT |  | WI SBIProtoc18  CAT F |
|  | **Plenary** | [2267](./docs/C4-242267.zip) | CR 29.573 0203 Rel-18 HTTP redirection for multiple SEPPs per PLMN | Deutsche Telekom AG |  | WI SBIProtoc18  CAT F |
|  | **Plenary** | [2268](./docs/C4-242268.zip) | discussion 29.573 Rel-18 HTTP redirection for multiple SEPPs per PLMN | Deutsche Telekom AG |  |  |
|  | **Breakout** | [2269](./docs/C4-242269.zip) | CR 29.504 0271 Rel-18 Support of URI reference | Ericsson |  | WI SBIProtoc18  CAT F |
|  | **Plenary** | [2273](./docs/C4-242273.zip) | discussion Rel-18 Discussion on support of 204 status code for HTTP GET method | China Mobile Com. Corporation | Noted | Ulrich: Why 200 OK with empty object cannot be used.  John: 200 OK and 204 response has significant difference as mentioned in the discussion paper (200 OK responds resource representation, while no content is different while the transaction itself is successful)  Jesus: supports the comment John  Varini: 404 is the right way forward.  Caixia: CT3 already is discussed this aspect. Can provide feedback to China Mobile.  Zhenning: 404 cannot provide the way that the transaction is successfully treated. Thus 2xx would be better.  200 with empty entry with 204 coulde be the similar way. Another information is that 204 is used in CT3 from R15....  Jesus: Perhaps it should be limited to specific API on CT3 spec if they want |
|  | **Plenary** | [2274](./docs/C4-242274.zip) | CR 29.500 0436 Rel-18 Service specific support of 204 status code for HTTP GET method | China Mobile | OPEN | WI SBIProtoc18  CAT F |
| **6.1.2** | **Study on IETF QUIC Transport for 5GC Service Based Interfaces** |  |  |  |  | FS\_QUIC |
|  |  |  |  |  |  |  |
| **6.1.3** | **Study on NRF API enhancements to avoid signalling and storing of redundant data** |  |  |  |  | FS\_NRFe |
|  |  |  |  |  |  |  |
| **6.1.4** | **5GS support of NR RedCap UE with long eDRX for RRC\_INACTIVE State** |  |  |  |  | NR\_REDCAP\_Ph2 |
|  | Main | [2038](./docs/C4-242038.zip) | CR 29.244 0855 Rel-18 Activation of DL data size reporting for support of MT-SDT | Ericsson |  | WI NR\_REDCAP\_Ph2  CAT F  Overlapping with 2090 |
|  | Main | [2090](./docs/C4-242090.zip) | CR 29.244 0857 Rel-18 Clarify the condition in which the SMF provides the MD-SDT Control Information to the UPF | ZTE |  | WI NR\_REDCAP\_Ph2  CAT F |
|  | **Main** | [2089](./docs/C4-242089.zip) | CR 29.518 1081 Rel-18 Clarify the condition in which the SMF provides the MD-SDT Control Information to the UPF a new Namf\_MT\_EnableUEReachability request to the AMF | ZTE |  | WI NR\_REDCAP\_Ph2  CAT F |
|  | Main | [2045](./docs/C4-242045.zip) | CR 29.518 1076 Rel-18 Support for the eRedCap UEs | Huawei |  | WI NR\_REDCAP\_Ph2  CAT B  Overlapping with 2080, 2260 |
|  | Main | [2080](./docs/C4-242080.zip) | CR 29.518 1080 Rel-18 eRedCAP Indication in UE Context | ZTE |  | WI NR\_REDCAP\_Ph2  CAT F |
|  | Main | [2260](./docs/C4-242260.zip) | CR 29.518 1090 Rel-18 Transfer of the NR eRedCap indication from S-AMF to T-AMF | Nokia |  | WI NR\_REDCAP\_Ph2, NR\_redcap\_enh-Core  CAT F |
|  | Main | [2147](./docs/C4-242147.zip) | CR 29.244 0858 Rel-18 Support of NR\_EREDCAP | Huawei |  | WI NR\_REDCAP\_Ph2  CAT F |
| **6.1.5** | CT aspects on Multiple location report for MT-LR Immediate Location Request for regulatory services |  |  |  |  | TEI18\_MLR |
|  |  |  |  |  |  |  |
| **6.1.6** | CT aspects of enhancement to the 5GC location services - phase 3 |  |  |  |  | 5G\_eLCS\_Ph3 |
|  |  | 2049 | CR 29.572 0265 Rel-18 Conditional SUPI and/or GPSI in Nlmf\_Location service operations | OPPO | revised to C4-242237 | Revision of C4-242237  WI 5G\_eLCS\_Ph3  CAT B |
|  | Plenary | [2237](./docs/C4-242237.zip) | CR 29.572 0265 Rel-18 Conditional SUPI and/or GPSI in Nlmf\_Location service operations | OPPO | Merged to C4-242312 | WI 5G\_eLCS\_Ph3  CAT B  Overlapping with 2202 |
|  | Plenary | [2202](./docs/C4-242202.zip) | CR 29.572 0256 Rel-18 Support of LCS user plane connection binding to the UE | Huawei, CATT | Revised to C4-242312 | WI 5G\_eLCS\_Ph3  CAT F |
|  |  | [2312](./docs/C4-242312.zip) | CR 29.572 0256 Rel-18 Support of LCS user plane connection binding to the UE | Huawei, CATT, OPPO |  |  |
|  |  | 2077 | CR 29.518 1079 Rel-18 LCS related clarification to N1MessageContainer | OPPO | revised to C4-242238 | Revision of C4-242238  WI 5G\_eLCS\_Ph3  CAT F |
|  |  | 2238 | CR 29.518 1079 Rel-18 LCS related clarification to N1MessageContainer | OPPO | revised to C4-242239 | Revision of C4-242239  WI 5G\_eLCS\_Ph3  CAT F |
|  | Plenary | [2239](./docs/C4-242239.zip) | CR 29.518 1079 Rel-18 LCS related clarification to N1MessageContainer | OPPO | Withdrawn | WI 5G\_eLCS\_Ph3  CAT F |
|  | Plenary | [2203](./docs/C4-242203.zip) | CR 29.518 1087 Rel-18 Update the description of EventNotify service | Huawei | Revised to C4-242313 | WI TEI18  CAT F |
|  |  | [2313](./docs/C4-242313.zip) | CR 29.518 1087 Rel-18 Update the description of EventNotify service | Huawei |  | Offline discussion needed among Mamdoh and Hao. |
| **6.1.7** | Enhancement of Shared Data Handling |  |  |  |  | ShDatID |
|  |  |  |  |  |  |  |
| **6.1.8** | Enhancement of Shared Data Handling [ShDatID]CT Aspects of Edge Computing Phase 2 |  |  |  |  | EDGE\_Ph2 |
|  | Plenary | [2043](./docs/C4-242043.zip) | CR 29.510 0999 Rel-18 Update EASDF registration and discovery | Huawei | Merged to C4-242318 | WI EDGE\_Ph2  CAT B  Overlapping with 2110 |
|  | Plenary | [2110](./docs/C4-242110.zip) | CR 29.510 1008 Rel-18 DNS security protocols supported by (V-)EASDF | Nokia | Revised to C4-242318 | WI EDGE\_Ph2  CAT F |
|  |  | [2318](./docs/C4-242318.zip) | CR 29.510 1008 Rel-18 DNS security protocols supported by (V-)EASDF | Nokia, Huawei, Ericsson |  |  |
|  | Plenary | [2109](./docs/C4-242109.zip) | CR 29.510 1007 Rel-18 ECS Address Configuration Information (EACI) application data subset | Nokia | Agreed | WI EDGE\_Ph2  CAT F |
|  | Main | [2111](./docs/C4-242111.zip) | CR 29.556 0040 Rel-18 Security of EAS discovery procedure via (V-)EASDF | Nokia |  | WI EDGE\_Ph2  CAT F  Overlapping with 2149 |
|  | Main | [2149](./docs/C4-242149.zip) | CR 29.556 0041 Rel-18 DNS Security Information of EASDF | Huawei |  | WI EDGE\_Ph2  CAT B |
|  | Main | [2148](./docs/C4-242148.zip) | CR 29.502 0780 Rel-18 DNS Security Information of vEASDF/Local DNS Server/Resolver | Huawei |  | WI EDGE\_Ph2  CAT B |
|  | Main | [2150](./docs/C4-242150.zip) | CR 29.502 0781 Rel-18 Service operations supported in HR-SBO | Huawei |  | WI EDGE\_Ph2  CAT F |
|  | Main | [2151](./docs/C4-242151.zip) | CR 29.556 0042 Rel-18 Service operations supported in HR-SBO | Huawei |  | WI EDGE\_Ph2  CAT F |
|  | Plenary | [2170](./docs/C4-242170.zip) | CR 29.503 1244 Rel-18 Add security parameter to ECS address IE | Samsung | Postponed to Wednesday Q5 | WI EDGE\_Ph2  CAT B |
|  | Plenary | [2171](./docs/C4-242171.zip) | CR 29.503 1245 Rel-18 Add list of supported PLMNs to ECS address IE | Samsung | Postponed to Wednesday Q5 | WI EDGE\_Ph2  CAT B |
| **6.1.9** | Enhancement of NSAC for maximum number of UEs with at least one PDU session/PDN connection |  |  |  |  | eNSAC |
|  |  |  |  |  |  |  |
| **6.1.10** | UPF enhancement for exposure and SBA |  |  |  |  | UPEAS |
|  | Main | [2112](./docs/C4-242112.zip) | CR 29.564 0094 Rel-18 Corrections to the Nupf\_EventExposure service | Nokia |  | WI UPEAS  CAT F |
|  | Main | [2152](./docs/C4-242152.zip) | CR 29.502 0782 Rel-18 Subscription of UPF event via I-SMF | Huawei |  | WI UPEAS  CAT B |
|  | Main | [2153](./docs/C4-242153.zip) | CR 29.564 0095 Rel-18 UE ID corrections | Huawei |  | WI UPEAS  CAT F |
| **6.1.11** | 5 MBS Phase 2 |  |  |  |  | 5MBS\_PH2 |
|  | **Main** | [2023](./docs/C4-242023.zip) | CR 29.532 0091 Rel-18 Correction of enumeration description and editorial mistake | Huawei |  | WI 5MBS\_Ph2  CAT F |
| **6.1.12** | Enhancements on Service-based support for SMS in 5GC |  |  |  |  | eSMS\_SBI |
|  | Breakout | [2125](./docs/C4-242125.zip) | CR 23.540 0019 Rel-18 IP-SM-GW Reference Points for MO-SMS | Ericsson | Agreed | WI eSMS\_SBI  CAT F |
| **6.1.13** | Study on Reducing Information Exposure over SBI |  |  |  |  | FS\_RedInfExp\_SBI |
|  | **Plenary** | [2021](./docs/C4-242021.zip) | pCR 29.857 Rel-18 Correction of Example 3 | Nokia | Agreed |  |
|  |  |  | TR 29.857v1.2.0 | Samsung |  |  |
| **6.1.14** | Study on IMS Disaster Prevention and Restoration Enhancement |  |  |  |  | FS\_IMS\_RES |
|  | Breakout | [2065](./docs/C4-242065.zip) | LS out LS on IMS (re)-registration procedure for routing without I-CSCF | China Telecom Corporation Ltd. | Revised to C4-242401 | At least text improvement is needed.  Jesus: Instead of ask SA2 to feedback on the specific solution, but we should ask SA2 to check the solutions and the assumptions, e.g. deploy a single AS to store the information. Those solutions have architecture impacts that need feedback from SA2.  Shuang: the intention of this LS is focusing on solution #1.  Jesus: could be add a simple line to ask SA2 to evaluate the assumptions and architecture impacts.  Rong: What's the trigger point and have a question that how P-CSCF knows the UDM overload or failure.  Huancheng/China Telecom: refer to the solution for the trigger point.  Ulrich: support the comments from Jesus.  Liuliu: do we send the LS this week or after we do some evaluation.  Jesus: we can send it in this week and ask them to check the latest version of the TR. |
|  |  | [2401](./docs/C4-242401.zip) | LS out LS on IMS (re)-registration procedure for routing without I-CSCF | China Telecom Corporation Ltd. |  |  |
|  | **Breakout** | [2066](./docs/C4-242066.zip) | pCR 29.866 Rel-18 pCR on TR 29.866 Update Solution #2 Preventing the IMS disaster in the HSS overload scenario | China Telecom, Huawei | Revised to C4-242402 | Rong: question on the text " the HSS identifies that it is in an overload situation by implementing specific means ", it is the HSS detects the situation, but next text says about the CSCF. How does the CSCF know the situation of the HSS detected.  Huancheng: it can be done via OSS system to transfer the information.  Jesus: have the similar question as Rong, it might be multi-vendor OSS. The text also says that Diameter overlad mechanism is used to detect the HSS overload. |
|  |  | [2402](./docs/C4-242402.zip) | pCR 29.866 Rel-18 pCR on TR 29.866 Update Solution #2 Preventing the IMS disaster in the HSS overload scenario | China Telecom, Huawei |  |  |
|  | **Breakout** | [2067](./docs/C4-242067.zip) | pCR 29.866 Rel-18 pCR on TR 29.866 Evaluation and conclusion for KI#4 | China Telecom, Huawei | Revised to C4-242403 | Rong: for the conclusion part should it mention which solution is adopted?  Rong: the editor's note in solution 2 needs to be addressed.  Jesus: The evalution points out that collaboration with SA2 is needed. |
|  |  | [2403](./docs/C4-242403.zip) | pCR 29.866 Rel-18 pCR on TR 29.866 Evaluation and conclusion for KI#4 | China Telecom, Huawei |  |  |
|  | **Breakout** | [2068](./docs/C4-242068.zip) | pCR 29.866 Rel-18 pCR on TR 29.866 Evaluation and conclusion for KI#1 | China Telecom Corporation Ltd. | Revised to C4-242404 | Mengdi: HW doesn't think solution 3 is a good way to be selected.  Rong: CMCC has the same consideration on solution 3. And solution 3 has different options which is not mentioned in conclusion. Also the criterias mentioned in the conclusion is not a good approach for conclusion decision.  Huancheng: reply to the question why choosing solution 3.  Liuliu: can accept to first evalutate the solutions.  Rong: we need to address the option A/B of solution 3 in the evaluation.  ----  Focus on the evaluation part. |
|  |  | [2404](./docs/C4-242404.zip) | pCR 29.866 Rel-18 pCR on TR 29.866 Evaluation and conclusion for KI#1 | China Telecom Corporation Ltd. |  |  |
|  | **Breakout** | [2092](./docs/C4-242092.zip) | pCR 29.866 Rel-18 Pseudo-CR on new solution to address KI#3 in the case of PGW/SMF/UPF failure | ZTE | Revised to C4-242405 | Jesus:  1) About the figre, the Diameter AAR/AAA normally is after get 183 from terminating UE.  2) it should take SMF Set into account, currently is only mentioned the PGW  3) the solution is a variant of solution #6, but for this solution the trigger point of PGW-C/SMF failure detection is not clear.  Rong: for Jesus first question, there is operator deployment that trigger Diameter AAR/AAA right after the INVITE.  Shuang: would add reference to AAR/AAA  Jesus: about SMF Set, according to the restoration procedure of SBI, a new SMF is selected. So not necessarily follow the described procedure in case of SMF Set.  Jesus: for trigger point, it might be a good way to periodically check the peer node e.g. every 5 minutes. |
|  |  | [2405](./docs/C4-242405.zip) | pCR 29.866 Rel-18 Pseudo-CR on new solution to address KI#3 in the case of PGW/SMF/UPF failure | ZTE |  |  |
|  | **Breakout** | [2093](./docs/C4-242093.zip) | pCR 29.866 Rel-18 Pseudo-CR on new solution to address KI #3 in the case of UP data transfer failure | ZTE | Revised to C4-242406 | Mengdi: The trigger point is the PGW not able to send DL traffic to terminating UE, but it may be the PGW failure itself or transmitting error or something else.  Jesus: the title of 6.1.y.2 and figure title is wrong. |
|  |  | [2406](./docs/C4-242406.zip) | pCR 29.866 Rel-18 Pseudo-CR on new solution to address KI #3 in the case of UP data transfer failure | ZTE |  |  |
|  | **Breakout** | [2172](./docs/C4-242172.zip) | pCR 29.866 Rel-18 Update Solution#4: Solution for HSS/UDM bypass | Huawei | Agreed |  |
|  | **Breakout** | [2173](./docs/C4-242173.zip) | pCR 29.866 Rel-18 Add mapping of solutions to Key Issues | Huawei | Revised to C4-242407 | Update the table to cover the new solutions X, Y. |
|  |  | [2407](./docs/C4-242407.zip) | pCR 29.866 Rel-18 Add mapping of solutions to Key Issues | Huawei |  |  |
|  | **Breakout** | [2174](./docs/C4-242174.zip) | pCR 29.866 Rel-18 KI#2 evaluation and conclusion | Huawei | Revised to C4-242408 | Update the number of solution#2 to solution#5, and remove unchanged clause. |
|  |  | [2408](./docs/C4-242408.zip) | pCR 29.866 Rel-18 KI#2 evaluation and conclusion | Huawei |  |  |
|  | **Breakout** | [2175](./docs/C4-242175.zip) | pCR 29.866 Rel-18 KI#3  evaluation and conclusion | Huawei | Revised to C4-242409 | Mengdi: as new solutions come out, we can focus on the evaluation part.  Jesus: Solution#6 is only focusing on EPC scenario. For 5GC/SBI case, either to enhance solution#6 or limit the solution#6 to EPC. Would like to state in the evaluation part the solution#6 is only targeting EPC  --  For now only focus on the evaluation part. |
|  |  | [2409](./docs/C4-242409.zip) | pCR 29.866 Rel-18 KI#3  evaluation and conclusion | Huawei |  |  |
|  |  |  | TR 29.866v0.5.0 | China Telecom |  |  |
| **6.1.15** | CT aspects of home network triggered primary authentication |  |  |  |  | HN\_Auth |
|  | Breakout | [2091](./docs/C4-242091.zip) | CR 29.503 1262 Rel-18 Clarify response codes for Reauth Notification in different cases | ZTE |  | WI HN\_Auth  CAT F |
| **6.1.16** | NRF API enhancements to avoid signalling and storing of redundant data |  |  |  |  | NRFe |
|  | Plenary | [2081](./docs/C4-242081.zip) | CR 29.510 1001 Rel-18 Write Access to Shared Profile Data | ZTE | Revised to C4-242314 | WI NRFe  CAT F |
|  |  | [2314](./docs/C4-242314.zip) | CR 29.510 1001 Rel-18 Write Access to Shared Profile Data | ZTE |  |  |
| **6.1.17** | CT impacts of EVS Codec Extension for Immersive Voice and Audio Services |  |  |  |  | IVAS\_Codec |
|  | Plenary | [2100](./docs/C4-242100.zip) | CR 23.333 0146 Rel-18 Adding support for IVAS codec | Ericsson, Qualcomm Incorporated, Nokia | Revised to C4-242289 | WI IVAS\_Codec  CAT B |
|  |  | [2289](./docs/C4-242289.zip) | CR 23.333 0146 Rel-18 Adding support for IVAS codec | Ericsson, Qualcomm Incorporated, Nokia | Agreed |  |
|  | **Plenary** | [2101](./docs/C4-242101.zip) | CR 29.333 0114 Rel-18 Adding support for IVAS codec | Ericsson, Nokia, Qualcomm Incorporated | Agreed | WI IVAS\_Codec  CAT B |
|  | **Plenary** | [2102](./docs/C4-242102.zip) | CR 29.232 0663 Rel-18 Adding support for IVAS codec | Qualcomm Incorporated, Ericsson, Nokia | Agreed | WI IVAS\_Codec  CAT B |
|  | **Plenary** | [2105](./docs/C4-242105.zip) | CR 23.334 0185 Rel-18 Adding support for IVAS codec | Nokia, Qualcomm Incorporated, Ericsson | Revised to C4-242288 | WI IVAS\_Codec  CAT B |
|  |  | [2288](./docs/C4-242288.zip) | CR 23.334 0185 Rel-18 Adding support for IVAS codec | Nokia, Qualcomm Incorporated, Ericsson | Agreed |  |
|  | **Plenary** | [2106](./docs/C4-242106.zip) | CR 29.334 0155 Rel-18 Adding support for IVAS codec | Nokia, Qualcomm Incorporated, Ericsson | Agreed | WI IVAS\_Codec  CAT B |
|  | **Plenary** | [2107](./docs/C4-242107.zip) | CR 29.238 0070 Rel-18 Adding support for IVAS codec | Nokia, Qualcomm Incorporated, Ericsson | Agreed | WI IVAS\_Codec  CAT B |
|  | **Plenary** | [2108](./docs/C4-242108.zip) | CR 29.332 0203 Rel-18 Adding support for IVAS codec | Nokia, Qualcomm Incorporated, Ericsson | Agreed | WI IVAS\_Codec  CAT B |
| **6.2** | **CT4 Supported WIs** |  |  |  |  |  |
| **6.2.1** | **Enhancements of UE Policy** |  |  |  |  | UEP18 |
|  |  |  |  |  |  |  |
| **6.2.2** | **CT aspects of Enhanced support of Non-Public Networks Phase 2** |  |  |  |  | eNPN\_Ph2 |
|  |  |  |  |  |  |  |
| **6.2.3** | **Protocol enhancements for Mission Critical Services** |  |  |  |  | MCPROTOC18 |
|  |  |  |  |  |  |  |
| **6.2.4** | **Support for 5WWC Phase 2** |  |  |  |  | 5WWC\_Ph2 |
|  |  |  |  |  |  |  |
| **6.2.5** | **Mission critical system migration and interconnection enhancements** |  |  |  |  | eMCSMI\_Irail |
|  |  |  |  |  |  |  |
| **6.2.6** | **CT aspects of proximity based services in 5GS Phase 2** |  |  |  |  | 5G\_ProSe\_Ph2 |
|  | **Breakout** | [2184](./docs/C4-242184.zip) | CR 29.572 0266 Rel-18 Remote UE Indication in Location Information | Ericsson |  | WI 5G\_ProSe\_Ph2  CAT B |
|  | **Breakout** | [2186](./docs/C4-242186.zip) | CR 29.518 1086 Rel-18 Remote UE Indication in Location Information | Ericsson |  | WI 5G\_ProSe\_Ph2  CAT B |
| **6.2.7** | **Secondary DN authentication and authorization in EPC IWK cases** |  |  |  |  | TEI18\_SDNAEPC |
|  |  |  |  |  |  |  |
| **6.2.8** | **CT aspects of Seamless UE session context recovery** |  |  |  |  | SUECR |
|  |  |  |  |  |  |  |
| **6.2.9** | **CT aspects of General Support of IPv6 Prefix Delegation in 5GS[** |  |  |  |  | TEI18\_IPv6PD |
|  |  |  |  |  |  |  |
| **6.2.10** | **CT aspects of 5G System with Satellite Backhaul** |  |  |  |  | 5GSATB |
|  |  |  |  |  |  |  |
| **6.2.11** | **5G Timing Resiliency and TSC & URLLC enhancements** |  |  |  |  | TRS\_URLLC |
|  | **Plenary** | [2022](./docs/C4-242022.zip) | CR 29.503 1252 Rel-18 Updates on AF request Authorization information | Huawei, Nokia, Ericsson | Agreed | WI TRS\_URLLC  CAT B  Revision of agreed CR by correcting the attribute name |
|  | **Plenary** | [2041](./docs/C4-242041.zip) | CR 29.571 0544 Rel-18 Make IEs related TRS\_URLLC nullable | Ericsson | Revised to C4-242286 | WI TRS\_URLLC  CAT B |
|  |  | [2286](./docs/C4-242286.zip) | CR 29.571 0544 Rel-18 Make IEs related TRS\_URLLC nullable | Ericsson | Agreed | Revision of agreed CR, triggered by rapporteur checking |
| **6.2.12** | **Extensions to the TSC Framework to support DetNet** |  |  |  |  | DetNet |
|  |  |  |  |  |  |  |
| **6.2.13** | **CT aspects of 5G System Enabler for Service Function Chaining** |  |  |  |  | SFC |
|  |  |  |  |  |  |  |
| **6.2.14** | **CT aspects of Access Traffic Steering, Switch and Splitting support in the 5G system  architecture; Phase** |  |  |  |  | ATSSS\_PH3 |
|  | **Plenary** | [2040](./docs/C4-242040.zip) | Work Plan Rel-18 Work Plan for ATSSS Phase 3 | Lenovo |  |  |
|  | **Plenary** | [2094](./docs/C4-242094.zip) | CR 29.274 2108 Rel-18 Provisioning of ATSSS parameters via APCO IE | ZTE |  | WI ATSSS\_Ph3  CAT F |
| **6.2.15** | **Enablers for Network Automation for 5G phase 3** |  |  |  |  | eNA\_PH3 |
|  | **Plenary** | [2031](./docs/C4-242031.zip) | CR 29.510 0998 Rel-18 Alignment of discovery parameters with stage-2 | Huawei | Revised to C4-242319 | WI TEI18, eNA\_Ph2  CAT F  Overlapping with 2259 |
|  |  | [2319](./docs/C4-242319.zip) | CR 29.510 0998 Rel-18 Alignment of discovery parameters with stage-2 | Huawei, Nokia |  |  |
|  | **Plenary** | [2095](./docs/C4-242095.zip) | CR 29.504 0269 Rel-18 Adding feature PfdDetermination | ZTE | Revised to C4-242321 | WI eNA\_Ph3  CAT F |
|  |  | [2321](./docs/C4-242321.zip) | CR 29.504 0269 Rel-18 Adding feature PfdDetermination | ZTE |  |  |
|  | **Plenary** | [2098](./docs/C4-242098.zip) | CR 29.510 1005 Rel-18 Correction of NWDAF registration | Huawei | Revised to C4-242322 | WI eNA\_Ph3  CAT F |
|  |  | [2322](./docs/C4-242322.zip) | CR 29.510 1005 Rel-18 Correction of NWDAF registration | Huawei |  |  |
|  | **Plenary** | [2099](./docs/C4-242099.zip) | CR 29.510 1006 Rel-18 Specifying access token request and claims for NWDAF containing MTLF | Huawei | Revised to C4-242323 | WI eNA\_Ph3  CAT B |
|  |  | [2323](./docs/C4-242323.zip) | CR 29.510 1006 Rel-18 Specifying access token request and claims for NWDAF containing MTLF | Huawei |  |  |
|  |  | 2189 | CR 29.573 0198 Rel-18 Exchanging data or analytics between PLMNs | NTT DOCOMO | withdrawn | WI eNA\_Ph3  CAT B |
|  | **Plenary** | [2190](./docs/C4-242190.zip) | CR 29.500 0433 Rel-18 Exchanging data or analytics between PLMNs | NTT DOCOMO | Revised to C4-242325 | WI eNA\_Ph3  CAT B  Jones has comments on this. |
|  |  | [2325](./docs/C4-242325.zip) | CR 29.500 0433 Rel-18 Exchanging data or analytics between PLMNs | NTT DOCOMO |  |  |
|  | **Plenary** | [2200](./docs/C4-242200.zip) | CR 29.573 0199 Rel-18 Exchanging data or analytics between PLMNs | NTT DOCOMO | Revised to C4-242324 | WI eNA\_Ph3  CAT B |
|  |  | [2324](./docs/C4-242324.zip) | CR 29.573 0199 Rel-18 Exchanging data or analytics between PLMNs | NTT DOCOMO |  |  |
| **6.2.16** | **CT aspects on enhancement of network slicing phase 3** |  |  |  |  | eNS\_PH3 |
|  | **Main** | [2087](./docs/C4-242087.zip) | CR 29.510 1004 Rel-18 Examples of NsacfInfo for different deployments | ZTE |  | WI eNS\_Ph3  CAT F |
|  | **Main** | [2088](./docs/C4-242088.zip) | CR 29.518 1046 Rel-18 Subscribe to event notification for Slice Service Area | ZTE |  | WI eNS\_Ph3  CAT F |
|  | **Main** | [2097](./docs/C4-242097.zip) | CR 29.518 1082 Rel-18 Update of Network Slice Deregistration Inactive Timer information | Huawei |  | WI eNS\_Ph3  CAT B |
|  | **Main** | [2255](./docs/C4-242255.zip) | CR 29.536 0125 Rel-18 NSAC optimization for network slice replacement | Nokia, Huawei, ZTE |  | WI eNS\_Ph3  CAT B |
| **6.2.17** | **Generic group management, exposure and communication enhancements** |  |  |  |  | GMEC |
|  | **Breakout** | [2204](./docs/C4-242204.zip) | CR 29.503 1263 Rel-18 Update on Group Identifier Translation | Huawei |  | WI GMEC  CAT F |
| **6.2.18** | **CT aspects of Next Generation Real time Communication services** |  |  |  |  | NG\_RTC |
|  | **Breakout** | [2176](./docs/C4-242176.zip) | CR 29.175 0004 Rel-18 Correction on the Nimsas\_MediaControl OpenAPI | Huawei | Agreed | WI NG\_RTC  CAT F |
|  | **Breakout** | [2177](./docs/C4-242177.zip) | CR 29.571 0558 Rel-18 Clarification on the maxRetry and maxTime of DcStream | Huawei | Revised to C4-242410 | WI NG\_RTC  CAT F  Correct the NOTE to say " at most one of ... ", and reflect it in the OpenAPI |
|  |  | [2410](./docs/C4-242410.zip) | CR 29.571 0558 Rel-18 Clarification on the maxRetry and maxTime of DcStream | Huawei |  |  |
|  | **Breakout** | [2178](./docs/C4-242178.zip) | CR 29.571 0559 Rel-18 Define the common data type for MDC interface | Huawei, China Mobile, CATT | Revised to C4-242411 | WI NG\_RTC  CAT F  Need to correct the pattern of the figerprint in the attribute description and yaml file. And check with the SCTP port text with Nevenka.  And in the coversheet complete OpenAPI names should be provided. |
|  |  | [2411](./docs/C4-242411.zip) | CR 29.571 0559 Rel-18 Define the common data type for MDC interface | Huawei, China Mobile, CATT |  |  |
|  | **Breakout** | [2179](./docs/C4-242179.zip) | CR 29.176 0011 Rel-18 Update the MDC1 and MDC2 interface information | Huawei, China Mobile, CATT | Revised to C4-242412 | WI NG\_RTC  CAT F  Correct the description in table 6.1.6.2.y-1 about the incorrect MDC2.  And correct the coversheet on impacted clauses. |
|  |  | [2412](./docs/C4-242412.zip) | CR 29.176 0011 Rel-18 Update the MDC1 and MDC2 interface information | Huawei, China Mobile, CATT |  |  |
|  |  | 2182 | CR 29.571 0560 Rel-18 Inclusion of video and audio media | Huawei | withdrawn | WI NG\_RTC  CAT F |
|  |  | 2183 | CR 29.175 0005 Rel-18 Inclusion of video and audio media | Huawei | withdrawn | WI NG\_RTC  CAT F |
|  | **Breakout** | [2185](./docs/C4-242185.zip) | CR 29.176 0012 Rel-18 Inclusion of the video and audio media | Huawei | Revised to C4-242413 | WI NG\_RTC  CAT F  Nevenka: in clause 6.1.6.1, the attribute name. And question on the carry both audio and video media.  Nevenka: B line should also be included?  In clause 6.1.6.3.2, the description of SdpString needs to be checked, whether the entire SDP offer is included.  Need to check offline for B line. And check the SDP string description. |
|  |  | [2413](./docs/C4-242413.zip) | CR 29.176 0012 Rel-18 Inclusion of the video and audio media | Huawei |  |  |
|  | **Breakout** | [2191](./docs/C4-242191.zip) | CR 29.330 0003 Rel-18 Editorial correction to Sc-pull procedure | China Mobile | Agreed | WI NG\_RTC  CAT D |
|  | **Breakout** | [2192](./docs/C4-242192.zip) | CR 29.571 0561 Rel-18 Update the MediaProxy value and update the DcEndpoint data type | China Mobile, Huawei | Agreed | WI NG\_RTC  CAT F |
|  |  | 2193 | CR 29.176 0013 Rel-18 Update the presence condition and cardinality for mediaProxyConfig | China Mobile | revised to C4-242266 | Revision of C4-242266  WI NG\_RTC  CAT F |
|  | **Breakout** | [2194](./docs/C4-242194.zip) | CR 29.175 0006 Rel-18 Update the presence condition and cardinality for mediaProxyConfig | China Mobile, Huawei | Revised to C4-242414 | WI NG\_RTC  CAT F  Editorial correction to the attribute description: "value shall be set to ..." |
|  |  | [2414](./docs/C4-242414.zip) | CR 29.175 0006 Rel-18 Update the presence condition and cardinality for mediaProxyConfig | China Mobile, Huawei |  |  |
|  | **Breakout** | [2196](./docs/C4-242196.zip) | CR 29.175 0007 Rel-18 Update the DcMediaSpecification for Nimsas\_SessionEventControl Service API | China Mobile, Huawei | Revised to C4-242415 | WI NG\_RTC  CAT F  Change to the general clause of 6.1.6.1 is missing. Also correct the data type name in the clause 6.1.6.1. |
|  |  | [2415](./docs/C4-242415.zip) | CR 29.175 0007 Rel-18 Update the DcMediaSpecification for Nimsas\_SessionEventControl Service API | China Mobile, Huawei |  |  |
|  | **Breakout** | [2197](./docs/C4-242197.zip) | CR 29.175 0008 Rel-18 Update the DcMediaSpecification Datatype for MdcEndpoint | China Mobile, Huawei, CATT | Revised to C4-242416 | WI NG\_RTC  CAT F  Need to correct the coversheet to add 6.2.6.1 to impacted clauses. |
|  |  | [2416](./docs/C4-242416.zip) | CR 29.175 0008 Rel-18 Update the DcMediaSpecification Datatype for MdcEndpoint | China Mobile, Huawei, CATT |  |  |
|  | **Breakout** | [2244](./docs/C4-242244.zip) | CR 29.510 1015 Rel-18 Add new NotificationType for DC session event notification | CATT | Revised to C4-242418 | WI NG\_RTC  CAT B  Fix the coverpage, it is 29.175 not 29.176.  Cat F is better. |
|  |  | [2418](./docs/C4-242418.zip) | CR 29.510 1015 Rel-18 Add new NotificationType for DC session event notification | CATT |  |  |
|  | **Breakout** | [2245](./docs/C4-242245.zip) | CR 29.175 0009 Rel-18 Update the SessionEventNotificationUri for session event notification | CATT | Revised to C4-242417 | WI NG\_RTC  CAT F  For clause 5.2.2.1A just keep the first change of DCSF to IMS AS, and revert other changes in this clause. |
|  |  | [2417](./docs/C4-242417.zip) | CR 29.175 0009 Rel-18 Update the SessionEventNotificationUri for session event notification | CATT |  |  |
|  | **Breakout** | [2266](./docs/C4-242266.zip) | CR 29.176 0013 Rel-18 Update the presence condition and cardinality for mediaProxyConfig | China Mobile, Huawei | Revised to C4-242419 | WI NG\_RTC  CAT F  Same comments for "shall be set to ..." |
|  |  | [2419](./docs/C4-242419.zip) | CR 29.176 0013 Rel-18 Update the presence condition and cardinality for mediaProxyConfig | China Mobile, Huawei |  |  |
|  | **Breakout** | [2272](./docs/C4-242272.zip) | CR 29.175 0010 Rel-18 Report the media HOLD to DCSF | Huawei, CMCC | Revised to C4-242420 | WI NG\_RTC  CAT F  What's the meaning of default value of "mediaSuspended" attribute? The current description is confusing. 🡪 false: media is resumed  Need to correct the impacted clauses.  Add dependency to CT1 CR. |
|  |  | [2420](./docs/C4-242420.zip) | CR 29.175 0010 Rel-18 Report the media HOLD to DCSF | Huawei, CMCC |  |  |
|  | **Breakout** | [2285](./docs/C4-242285.zip) | CR 29.175 0011 Rel-18 Add the Media re-negotiation indication to Nimsas\_MediaControl API to support AR | China Mobile, Huawei | Revised to C4-242421 | WI NG\_RTC  CAT F  In clause 6.2.6.2.x set default value to false, not nullable value.  Description of VideoMediaDirection should be corrected.  Add audio media direction/ connection side something. |
|  |  | [2421](./docs/C4-242421.zip) | CR 29.175 0011 Rel-18 Add the Media re-negotiation indication to Nimsas\_MediaControl API to support AR | China Mobile, Huawei |  |  |
| **6.2.19** | **CT Aspect of Further Architecture Enhancement for UAV and UAM Ph2** |  |  |  |  | UAS\_Ph2 |
|  |  |  |  |  |  |  |
| **6.2.20** | **CT aspects of Ranging based services and sidelink positioning** |  |  |  |  | Ranging\_SL |
|  | **Breakout** | [2047](./docs/C4-242047.zip) | CR 29.518 1078 Rel-18 NGAP Reference to Ranging and Sidelink Positioning Service Information | Ericsson |  | WI Ranging\_SL  CAT F |
|  | **Breakout** | [2184](./docs/C4-242184.zip) | CR 29.572 0266 Rel-18 Remote UE Indication in Location Information | Ericsson | Moved to 6.2.6 | WI Ranging\_SL  CAT B |
|  | **Breakout** | [2186](./docs/C4-242186.zip) | CR 29.518 1086 Rel-18 Remote UE Indication in Location Information | Ericsson | Moved to 6.2.6 | WI Ranging\_SL  CAT B |
|  | **Breakout** | [2205](./docs/C4-242205.zip) | CR 29.586 0008 Rel-18 Add missing description in the API | Huawei |  | WI Ranging\_SL  CAT F |
|  | **Breakout** | [2206](./docs/C4-242206.zip) | CR 29.586 0009 Rel-18 Remove addtional data type | Huawei |  | WI Ranging\_SL  CAT F |
|  | **Breakout** | [2207](./docs/C4-242207.zip) | CR 29.586 0010 Rel-18 Update on UserInfoId | Huawei |  | WI Ranging\_SL  CAT F |
|  | **Breakout** | [2229](./docs/C4-242229.zip) | CR 29.504 0270 Rel-18 Feature support | Ericsson |  | WI Ranging\_SL, AIMLsys  CAT F |
|  | **Breakout** | [2230](./docs/C4-242230.zip) | CR 29.515 0181 Rel-18 Alignment with naming conventions. | Ericsson |  | WI Ranging\_SL  CAT F |
|  | **Breakout** | [2231](./docs/C4-242231.zip) | CR 29.518 1089 Rel-18 Alignment with naming conventions. | Ericsson |  | WI Ranging\_SL  CAT F |
|  | **Breakout** | [2232](./docs/C4-242232.zip) | CR 29.572 0272 Rel-18 Alignment with naming conventions. | Ericsson |  | WI Ranging\_SL  CAT F |
|  | **Breakout** | [2275](./docs/C4-242275.zip) | CR 29.505 0507 Rel-18 UE RangingSL Positioning privacy profile | Xiaomi, Ericsson |  | WI Ranging\_SL  CAT B |
|  | **Breakout** | [2276](./docs/C4-242276.zip) | CR 29.504 0272 Rel-18 UE RangingSL Positioning privacy profile | Xiaomi, Ericsson |  | WI Ranging\_SL  CAT F |
|  | **Breakout** | [2277](./docs/C4-242277.zip) | CR 29.503 1269 Rel-18 Update on UE RangingSL Positioning privacy profile | Xiaomi, Ericsson |  | WI Ranging\_SL  CAT F |
|  | **Breakout** | [2278](./docs/C4-242278.zip) | CR 24.080 0118 Rel-18 Notification for privacy check on UE for RangingSl | Xiaomi, Ericsson |  | WI Ranging\_SL  CAT F |
|  | **Breakout** | [2279](./docs/C4-242279.zip) | CR 29.518 1091 Rel-18 Notification for privacy check on UE for RangingSl | Xiaomi, Ericsson |  | WI Ranging\_SL  CAT F |
|  | **Breakout** | [2280](./docs/C4-242280.zip) | CR 29.515 0183 Rel-18 Update privacy check for UEs belonging to different PLMN(s) | Xiaomi, Ericsson |  | WI Ranging\_SL  CAT F |
|  | **Breakout** | [2290](./docs/C4-242290.zip) | CR 29.503 1257 Rel-18 UE RangingSL Positioning privacy profile | Xiaomi |  | WI Ranging\_SL  CAT B  Revision of agreed CR from CT4#122 meeting, triggered by rapporteur checking |
| **6.2.21** | **CT aspects of System Support for AI/ML-based Services** |  |  |  |  | AIMLsys |
|  |  |  |  |  |  |  |
| **6.2.22** | **CT aspects of Personal IoT Network** |  |  |  |  | PIN |
|  |  |  |  |  |  |  |
| **6.2.23** | **CT aspects of enhancement of 5G UE Policy** |  |  |  |  | eUEPO |
|  | **Main** | [2284](./docs/C4-242284.zip) | CR 29.502 0785 Rel-18 URSP rule enforcement reports in roaming | Intel |  | WI eUEPO  CAT F |
| **6.2.24** | **CT Aspect of Architecture Enhancements for Vehicle Mounted Relays** |  |  |  |  | VMR |
|  | **Plenary** | [2246](./docs/C4-242246.zip) | CR 29.510 1016 Rel-18 Support of location service involving MBSR | CATT |  | WI VMR  CAT B |
|  | **Plenary** | [2247](./docs/C4-242247.zip) | CR 29.515 0182 Rel-18 Add MBSR positioning indication | CATT |  | WI VMR  CAT B |
|  | **Plenary** | [2248](./docs/C4-242248.zip) | CR 29.572 0273 Rel-18 Update the attribute definition for MBSR serving cell indication | CATT |  | WI VMR  CAT F |
| **6.2.25** | **CT aspects on 5G AM Policy** |  |  |  |  | AMP |
|  |  |  |  |  |  |  |
| **6.2.26** | **Architecture Enhancements for XR and media services** |  |  |  |  | XRM |
|  | **Main** | [2042](./docs/C4-242042.zip) | CR 29.518 1075 Rel-18 Support for the XR Device with 2Rx | Huawei |  | WI XRM  CAT B |
|  | **Main** | [2082](./docs/C4-242082.zip) | CR 29.502 0778 Rel-18 Presence Condition of MDBV | ZTE |  | WI XRM  CAT F  Overlapping with 2154 |
|  | **Main** | [2154](./docs/C4-242154.zip) | CR 29.502 0783 Rel-18 Condition on Maximum Data Burst Volume | Huawei |  | WI XRM  CAT F |
|  | **Main** | [2124](./docs/C4-242124.zip) | CR 29.571 0555 Rel-18 Granularity of PduSetQosParaRm | Ericsson |  | WI XRM  CAT F |
| **6.2.27** | **PLMN Selection based on Network Slice** |  |  |  |  | PLMNsel\_NS |
|  |  |  |  |  |  |  |
| **6.2.28** | **MPS when access to EPC/5GC is WLAN** |  |  |  |  | MPS\_WLAN |
|  |  |  |  |  |  |  |
| **6.2.29** | **Network Slice Capability Exposure for Application Layer Enablement** |  |  |  |  | NSCALE |
|  |  |  |  |  |  |  |
| **6.3** | **AoB for Rel-18** |  |  |  |  | TEI18, … |
| **6.3.1** | **TEI18** |  |  |  |  | TEI18 |
|  | **Plenary** | [2017](./docs/C4-242017.zip) | CR 23.632 0045 Rel-18 Interworking with IMS clarification | Nokia |  | WI TEI18  CAT F |
|  | **Plenary** | [2018](./docs/C4-242018.zip) | CR 23.632 0046 Rel-18 UE context data synchronization | Nokia |  | WI TEI18  CAT F |
|  | **Plenary** | [2019](./docs/C4-242019.zip) | CR 29.272 0852 Rel-18 UE context data synchronization | Nokia |  | WI TEI18  CAT F |
|  | **Plenary** | [2024](./docs/C4-242024.zip) | CR 29.510 0997 Rel-18 Clarifying the self-references and editorial corrections | Huawei |  | WI TEI18  CAT F |
|  | **Main** | [2025](./docs/C4-242025.zip) | CR 29.518 1072 Rel-18 Service name corrections | Huawei |  | WI TEI18  CAT F |
|  | **Plenary** | [2026](./docs/C4-242026.zip) | CR 29.503 1260 Rel-18 Clarifying the self-references and editorial corrections | Huawei |  | WI TEI18  CAT F |
|  | **Plenary** | [2027](./docs/C4-242027.zip) | CR 29.556 0039 Rel-18 Clarifying the self-references and editorial corrections | Huawei |  | WI TEI18  CAT F |
|  | **Plenary** | [2028](./docs/C4-242028.zip) | CR 29.509 0219 Rel-18 Clarifying the self-references and editorial corrections | Huawei |  | WI TEI18  CAT F |
|  | **Plenary** | [2029](./docs/C4-242029.zip) | CR 29.559 0040 Rel-18 Clarifying the self-references | Huawei |  | WI TEI18  CAT F |
|  | **Plenary** | [2030](./docs/C4-242030.zip) | CR 29.598 0076 Rel-18 Clarifying the self-references and editorial corrections | Huawei |  | WI TEI18  CAT F |
|  | **Main** | [2032](./docs/C4-242032.zip) | CR 29.518 1073 Rel-18 Resolving the case of incorrect UE identifiers in the body of Location service | Huawei |  | WI TEI18  CAT F |
|  | **Main** | [2033](./docs/C4-242033.zip) | CR 29.518 1074 Rel-18 Correction of feature negotiation description | Huawei |  | WI TEI18  CAT F |
|  | **Main** | [2034](./docs/C4-242034.zip) | CR 29.511 0060 Rel-18 Correction of feature negotiation description | Huawei |  | WI TEI18  CAT F |
|  | **Main** | [2035](./docs/C4-242035.zip) | CR 29.540 0117 Rel-18 Correction of feature negotiation description | Huawei |  | WI TEI18  CAT F |
|  | **Main** | [2036](./docs/C4-242036.zip) | CR 29.244 0854 Rel-18 Clarification on Downlink data delivery status feature | Ericsson |  | WI TEI18  CAT F |
|  | **Main** | [2039](./docs/C4-242039.zip) | CR 29.244 0856 Rel-18 Clarification on the usage of TERMR | Ericsson |  | WI TEI18  CAT F |
|  | **Plenary** | [2044](./docs/C4-242044.zip) | CR 29.510 1000 Rel-18 Missing description in the API | Huawei |  | WI TEI18  CAT F |
|  | **Main** | [2069](./docs/C4-242069.zip) | CR 29.274 2107 Rel-18 Clarification on the PGW Restart Notification Acknowledge message | Ericsson, Nokia |  | WI RPCPSET, TEI18  CAT F |
|  | **Main** | [2070](./docs/C4-242070.zip) | CR 29.502 0776 Rel-18 Inclusion of S-NSSAI for Serving PLMN for V-SMF insertion and inter PLMN change | Ericsson |  | WI TEI18  CAT F |
|  | **Main** | [2071](./docs/C4-242071.zip) | CR 29.502 0777 Rel-18 Clarification on inter AMF change with a User Plane connection establishment | Ericsson |  | WI TEI18  CAT F |
|  |  | [2073](./docs/C4-242073.zip) | CR 29.553 0032 Rel-18 Non-Standard API Version Specification in Server URL | Orange | Moved to 7.3.1 | WI TEI18  CAT A |
|  |  | [2075](./docs/C4-242075.zip) | CR 29.505 0505 Rel-18 Naming mismatch in the OpenAPI specification | Orange, Nokia | Moved to 7.3.1 | WI TEI18  CAT A |
|  | **Plenary** | [2078](./docs/C4-242078.zip) | CR 23.007 0395 Rel-18 PGW Restart Notification and Acknowledgement | Ericsson, Nokia |  | WI RPCPSET, TEI18  CAT F |
|  | **Plenary** | [2083](./docs/C4-242083.zip) | CR 29.518 1047 Rel-18 Add EMM Registration Status in UE Context | ZTE |  | WI TEI18, 5GS\_Ph1-CT  CAT F |
|  |  | 2084 | CR 29.503 1261 Rel-18 Clarification on Dual Registration Flag Setting | ZTE | revised to C4-242243 | Revision of C4-242243  WI TEI18, 5GS\_Ph1-CT  CAT F |
|  | **Plenary** | [2243](./docs/C4-242243.zip) | CR 29.503 1261 Rel-18 Clarification on Dual Registration Flag Setting | ZTE |  | WI 5GS\_Ph1-CT, TEI18  CAT F  Overlapping with 2257 |
|  | **Plenary** | [2256](./docs/C4-242256.zip) | discussion Rel-18 Discussion on canceling MME registration after EPC to 5GC mobility | Nokia |  |  |
|  | **Plenary** | [2257](./docs/C4-242257.zip) | CR 29.503 1268 Rel-18 Cancel MME registration after EPC to 5GC mobility | Nokia |  | WI TEI18, 5GS\_Ph1-CT  CAT F |
|  | **Main** | [2113](./docs/C4-242113.zip) | CR 29.518 1083 Rel-18 Write-Replace Warning Indication & Stop Warning Indication | Nokia |  | WI TEI18  CAT F |
|  | **Plenary** | [2114](./docs/C4-242114.zip) | CR 29.274 2109 Rel-18 QoS change upon Inter-PLMN mobililty | Nokia |  | WI TEI18  CAT F |
|  | **Main** | [2115](./docs/C4-242115.zip) | CR 29.518 1084 Rel-18 EBI allocation applying to PDU sessions using SSC mode 1 | Nokia |  | WI TEI18, 5GS\_Ph1-CT  CAT F |
|  | **Main** | [2155](./docs/C4-242155.zip) | CR 29.244 0859 Rel-18 Correction on Ethernet Packet Filter | Huawei |  | WI TEI18  CAT F |
|  | **Main** | [2156](./docs/C4-242156.zip) | CR 29.244 0860 Rel-18 Interface Type for 5G VN Internal | Huawei |  | WI TEI18  CAT F |
|  | **Main** | [2157](./docs/C4-242157.zip) | CR 29.502 0784 Rel-18 Feature negotiation correction | Huawei |  | WI TEI18  CAT F |
|  | **Breakout** | [2158](./docs/C4-242158.zip) | CR 29.509 0220 Rel-18 Feature negotiation correction | Huawei |  | WI TEI18  CAT F |
|  | **Main** | [2159](./docs/C4-242159.zip) | CR 29.531 0203 Rel-18 Feature negotiation correction | Huawei |  | WI TEI18  CAT F |
|  | **Main** | [2160](./docs/C4-242160.zip) | CR 29.573 0194 Rel-18 Feature negotiation correction | Huawei |  | WI TEI18  CAT F |
|  | **Main** | [2161](./docs/C4-242161.zip) | CR 29.673 0059 Rel-18 Feature negotiation correction | Huawei |  | WI TEI18  CAT F |
|  | **Main** | [2162](./docs/C4-242162.zip) | CR 29.573 0195 Rel-18 Replacing Roaming Intermediary with RI | Huawei | Moved to 6.3.2 | WI TEI18  CAT F |
|  | **Main** | [2163](./docs/C4-242163.zip) | CR 29.536 0129 Rel-18 Miscellaneous corrections | Huawei |  | WI TEI18  CAT F |
|  | **Plenary** | [2164](./docs/C4-242164.zip) | CR 29.573 0196 Rel-18 Description of N32Purpose, ProblemDetailsMsgForwarding and AdditionInfoMsgForwarding | Huawei |  | WI TEI18  CAT F |
|  | **Plenary** | [2188](./docs/C4-242188.zip) | CR 29.573 0197 Rel-18 N32-c and N32-f Correlation | Ericsson |  | WI TEI18  CAT F  Overlapping with 2228, 2263, 2283 |
|  | **Plenary** | [2228](./docs/C4-242228.zip) | CR 29.573 0200 Rel-18 Update TLS message forwarding to Peer SEPP for N32-f\_N32\_c correlation | China Mobile |  | WI TEI18  CAT F |
|  | **Plenary** | [2263](./docs/C4-242263.zip) | CR 29.573 0168 Rel-18 N32-f N32-c correlation | Nokia, Verizon, Vodafone |  | WI TEI18  CAT F |
|  | **Plenary** | [2283](./docs/C4-242283.zip) | CR 29.573 0193 Rel-18 Correlation of N32-f connection with N32-c connection for TLS security mode | Mavenir |  | WI TEI18  CAT F |
|  | **Plenary** | [2264](./docs/C4-242264.zip) | LS out Rel-18 Reply LS on N32-f N32-c correlation | Nokia |  | C4-241016  To: GSMA 5GMRR  CC: SA3 |
|  | **Breakout** | [2201](./docs/C4-242201.zip) | CR 29.503 1250 Rel-18 Style Corrections of Nudm\_SDM API | Huawei |  | WI TEI18  CAT F |
|  | **Breakout** | [2213](./docs/C4-242213.zip) | CR 29.503 1265 Rel-18 Update on font color | Huawei |  | WI TEI18  CAT F |
|  | **Breakout** | [2214](./docs/C4-242214.zip) | CR 29.509 0221 Rel-18 Update on incorrect attribute name | Huawei |  | WI TEI18  CAT F |
|  | **Breakout** | [2215](./docs/C4-242215.zip) | CR 29.515 0178 Rel-18 Add missing condition for conditional parameters | Huawei |  | WI TEI18  CAT F |
|  | **Breakout** | [2216](./docs/C4-242216.zip) | CR 29.515 0179 Rel-18 Add missing description in the API | Huawei |  | WI TEI18  CAT F |
|  | **Breakout** | [2217](./docs/C4-242217.zip) | CR 29.515 0180 Rel-18 Updates on naming convention for enumeration | Huawei |  | WI TEI18  CAT F |
|  | **Main** | [2218](./docs/C4-242218.zip) | CR 29.518 1088 Rel-18 Updates on naming convention for enumeration | Huawei |  | WI TEI18  CAT F |
|  | **Breakout** | [2219](./docs/C4-242219.zip) | CR 29.541 0040 Rel-18 Style and externalDocs Corrections of Nnef API | Huawei |  | WI TEI18  CAT F |
|  | **Breakout** | [2220](./docs/C4-242220.zip) | CR 29.555 0024 Rel-18 Style Corrections of N5g-ddnmf\_Discovery API | Huawei |  | WI TEI18  CAT F |
|  | **Breakout** | [2221](./docs/C4-242221.zip) | CR 29.559 0041 Rel-18 Add missing description in the API | Huawei |  | WI TEI18  CAT F |
|  | **Breakout** | [2222](./docs/C4-242222.zip) | CR 29.572 0268 Rel-18 Add missing condition for conditional parameters | Huawei |  | WI TEI18  CAT F |
|  | **Breakout** | [2223](./docs/C4-242223.zip) | CR 29.572 0269 Rel-18 Feature negotiation correction | Huawei |  | WI TEI18  CAT F |
|  | **Breakout** | [2224](./docs/C4-242224.zip) | CR 29.572 0270 Rel-18 Update on reference number | Huawei |  | WI TEI18  CAT F |
|  | **Breakout** | [2225](./docs/C4-242225.zip) | CR 29.572 0271 Rel-18 Updates on naming convention for enumeration | Huawei |  | WI TEI18  CAT F |
|  | **Breakout** | [2226](./docs/C4-242226.zip) | CR 29.577 0018 Rel-18 Style Corrections of Nipsmgw and Nrouter API | Huawei |  | WI TEI18  CAT F |
|  | **Breakout** | [2227](./docs/C4-242227.zip) | CR 29.579 0019 Rel-18 Correct the description of externalDocs | Huawei |  | WI TEI18  CAT F |
|  | **Breakout** | [2233](./docs/C4-242233.zip) | CR 29.503 1266 Rel-18 Clarification of SOR information in parameter provisioning data type | Ericsson |  | WI TEI18, eNPN\_Ph2  CAT F |
|  | **Breakout** | [2234](./docs/C4-242234.zip) | CR 29.503 1267 Rel-18 Modification of CP-SOR (SOR-SNPN-SI) Information for SNPNs | Ericsson |  | WI TEI18, eNPN\_Ph2  CAT F |
|  | **Plenary** | [2258](./docs/C4-242258.zip) | CR 29.500 0434 Rel-18 Error code on 3gpp-Sbi-Originating-Network-Id mismatch | Nokia |  | WI TEI18  CAT F |
|  | **Plenary** | [2259](./docs/C4-242259.zip) | CR 29.510 1017 Rel-18 Alignment of NWDAF discovery parameters | Nokia | Merged to C4-242319 | WI TEI18, eNA\_Ph2  CAT F |
|  |  | 2261 | CR 29.573 0201 Rel-18 Correct the NfServiceSetId description | Nokia | withdrawn | WI TEI18  CAT F |
|  | **Plenary** | [2262](./docs/C4-242262.zip) | CR 29.573 0202 Rel-18 Correct table references | Nokia |  | WI TEI18  CAT F |
|  | **Plenary** | [2265](./docs/C4-242265.zip) | CR 29.500 0435 Rel-18 Align the default N32 purpose | Nokia |  | WI TEI18  CAT F |
|  | **Plenary** | [2270](./docs/C4-242270.zip) | CR 29.571 0563 Rel-18 Correct the NfServiceSetId description | Nokia |  | WI TEI18  CAT F |
| **6.3.2** | **Roaming5G** |  |  |  |  | Roaming5G, TEI18 |
|  |  | 2123 | CR 29.573 0193 Rel-18 Correlation of N32-f connection with N32-c connection for TLS security mode | Mavenir | revised to C4-242283 | WI Roaming5G  CAT F |
|  | **Plenary** | [2162](./docs/C4-242162.zip) | CR 29.573 0195 Rel-18 Replacing Roaming Intermediary with RI | Huawei |  | WI Roaming5G, TEI18  CAT F |
|  | **Plenary** | [2254](./docs/C4-242254.zip) | CR 29.573 0184 Rel-18 N32-f connection and/or N32-f context termination initiated by Roaming Intermediary | Nokia |  | WI Roaming5G, TEI18  CAT F |
|  |  | [2264](./docs/C4-242264.zip) | LS out Rel-18 Reply LS on N32-f N32-c correlation | Nokia | Moved to 6.3.1 | C4-241016  To: GSMA 5GMRR  CC: SA3 |
|  |  | [2283](./docs/C4-242283.zip) | CR 29.573 0193 Rel-18 Correlation of N32-f connection with N32-c connection for TLS security mode | Mavenir | Moved to 6.3.1 | WI Roaming5G  CAT F |
| **6.3.3** | **AoB of Rel-18** |  |  |  |  |  |
|  | **Breakout** | [2229](./docs/C4-242229.zip) | CR 29.504 0270 Rel-18 Feature support | Ericsson | Moved to 6.2.20 | WI Ranging\_SL, AIMLsys  CAT F |
| **6.3.4** | **Open API version and External docs** |  |  |  |  |  |
|  |  |  | 29.175 0 Rel18 API version and External doc update | China Mobile | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.176 0 Rel18 API version and External doc update | Huawei | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.256 0 Rel18 API version and External doc update | Qualcomm Incorporated | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.309 0 Rel18 API version and External doc update | Ericsson | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.502 0 Rel18 API version and External doc update | Nokia | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.503 0 Rel18 API version and External doc update | Nokia | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.504 0 Rel18 API version and External doc update | China Mobile | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.505 0 Rel18 External doc update | China Mobile | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.509 0 Rel18 API version and External doc update | Orange | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.510 0 Rel18 API version and External doc update | Ericsson | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.511 0 Rel18 API version and External doc update | Deutsche Telekom | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.515 0 Rel18 API version and External doc update | CATT | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.518 0 Rel18 API version and External doc update | Ericsson | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.526 0 Rel18 API version and External doc update | ZTE | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.531 0 Rel18 API version and External doc update | Huawei | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.532 0 Rel18 API version and External doc update | Huawei | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.536 0 Rel18 API version and External doc update | ZTE | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.540 0 Rel18 API version and External doc update | ZTE | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.541 0 Rel18 API version and External doc update | Ericsson | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.542 0 Rel18 API version and External doc update | Ericsson | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.544 0 Rel18 API version and External doc update | Nokia | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.550 0 Rel18 API version and External doc update | Orange | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.553 0 Rel18 API version and External doc update | CATT | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.555 0 Rel18 API version and External doc update | CATT | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.556 0 Rel18 API version and External doc update | Huawei | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.559 0 Rel18 API version and External doc update | CATT | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.562 0 Rel18 API version and External doc update | Ericsson | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.563 0 Rel18 API version and External doc update | Ericsson | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.564 0 Rel18 API version and External doc update | China Mobile | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.571 0 Rel18 API version and External doc update | Huawei | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.572 0 Rel18 API version and External doc update | Ericsson | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.573 0 Rel18 API version and External doc update | Huawei | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.577 0 Rel18 API version and External doc update | Huawei | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.578 0 Rel18 API version and External doc update | Nokia | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.579 0 Rel18 API version and External doc update | China Telecom | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.581 0 Rel18 API version and External doc update | Samsung | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.586 0 Rel18 API version and External doc update | Xiaomi | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.598 0 Rel18 API version and External doc update | CISCO | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.673 0 Rel18 API version and External doc update | Ericsson | Email approval | *CR possibly needed* Email approval |
|  |  |  |  |  |  |  |
| **7** | **Release 17** |  |  |  |  |  |
| **7.1** | **CT4 Led WIs** |  |  |  |  |  |
| **7.1.1** | **Service based Interface protocol improvements** |  |  |  |  | SBIProtoc17 |
|  | **Plenary** | [2129](./docs/C4-242129.zip) | CR 29.518 1068 Rel-17 Content of JSON Patch requests | Ericsson |  | WI SBIProtoc17  CAT F |
|  | **Plenary** | [2130](./docs/C4-242130.zip) | CR 29.518 1069 Rel-18 Content of JSON Patch requests | Ericsson |  | WI SBIProtoc17  CAT A |
|  | **Plenary** | [2132](./docs/C4-242132.zip) | CR 29.510 1010 Rel-17 Corrections to SubscrCond data structure | Ericsson |  | WI SBIProtoc17  CAT F |
|  | **Plenary** | [2133](./docs/C4-242133.zip) | CR 29.510 1011 Rel-18 Corrections to SubscrCond data structure | Ericsson |  | WI SBIProtoc17  CAT A |
| **7.1.2** | **BEst Practice of PFCP** |  |  |  |  | BEPoP |
|  |  |  |  |  |  |  |
| **7.1.3** | **Service-based support for SMS in 5GC** |  |  |  |  | SMS\_SBI |
|  |  |  |  |  |  |  |
| **7.1.4** | **CT aspects of Integration of GBA into SBA** |  |  |  |  | GBA\_5G |
|  |  |  |  |  |  |  |
| **7.1.5** | **Enhancement of Network Slicing Phase 2** |  |  |  |  | eNS\_Ph2 |
|  | **Plenary** | [2085](./docs/C4-242085.zip) | CR 29.510 1002 Rel-17 Add a reference of NsacSai | ZTE |  | WI eNS\_Ph2  CAT F  FASMO justified? |
|  | **Plenary** | [2086](./docs/C4-242086.zip) | CR 29.510 1003 Rel-18 Add a reference of NsacSai | ZTE |  | WI eNS\_Ph2  CAT A |
| **7.1.6** | **CT Aspects of 5G eEDGE** |  |  |  |  | eEDGE\_5GC |
|  |  |  |  |  |  |  |
| **7.1.7** | **CT aspects on Same PCF Selection For AMF and SMF** |  |  |  |  | TEI17\_SPSFAS |
|  |  |  |  |  |  |  |
| **7.1.8** | **Enhancement of Inter-PLMN Roaming** |  |  |  |  | EoIPR |
|  |  |  |  |  |  |  |
| **7.1.9** | **Restoration of PDN Connections in PGW-C/SMF S** |  |  |  |  | RPCPSET |
|  | **Plenary** | [2119](./docs/C4-242119.zip) | CR 23.007 0396 Rel-17 IEs in Create Session Request/Response during the restoration of a PDN connection after a PGW-C/SMF change | Nokia, Ericsson |  | WI RPCPSET  CAT F |
|  | **Plenary** | [2120](./docs/C4-242120.zip) | CR 23.007 0397 Rel-18 IEs in Create Session Request/Response during the restoration of a PDN connection after a PGW-C/SMF change | Nokia, Ericsson |  | WI RPCPSET  CAT A |
|  | **Plenary** | [2121](./docs/C4-242121.zip) | CR 29.274 2110 Rel-17 IEs in Create Session Request/Response during the restoration of a PDN connection after a PGW-C/SMF change | Nokia, Ericsson |  | WI RPCPSET  CAT F |
|  | **Plenary** | [2122](./docs/C4-242122.zip) | CR 29.274 2104 Rel-18 IEs in Create Session Request/Response during the restoration of a PDN connection after a PGW-C/SMF change | Nokia, Ericsson |  | WI RPCPSET  CAT A |
| **7.1.10** | **Start of Pause of Charging via User Plane** |  |  |  |  | SPOCUP |
|  |  |  |  |  |  |  |
| **7.1.11** | **Enhancement to the 5GC LoCation Services-Phase 2** |  |  |  |  | 5G\_eLCS\_ph2 |
|  | **Main** | [2037](./docs/C4-242037.zip) | CR 29.518 1059 Rel-18 Integrity Result | Ericsson |  | WI 5G\_eLCS\_ph2  CAT A  Revision of CR agreed on CT4#122. Rel-17 version is correct. |
| **7.1.12** | **CT aspects of Support of different slices over different Non3GPP access** |  |  |  |  | TEI17\_N3SLICE |
|  |  |  |  |  |  |  |
| **7.1.13** | **CT aspects of the architectural enhancements for 5G multicast-broadcast services** |  |  |  |  | 5MBS |
|  |  |  |  |  |  |  |
| **7.1.14** | **Restoration of profiles related to UDR** |  |  |  |  | ReP\_UDR |
|  |  |  |  |  |  |  |
| **7.1.15** | **Enhancement on the GTP-U entity restart** |  |  |  |  | EGTPUR |
|  |  |  |  |  |  |  |
| **7.1.16** | **Port allocation** |  |  |  |  | Port\_AL |
|  |  |  |  |  |  |  |
| **7.1.17** | **Non-Seamless WLAN offload authentication in 5GS** |  |  |  |  | NSWO\_5G |
|  |  |  |  |  |  |  |
| **7.2** | **CT4 Supported WIs** |  |  |  |  |  |
| **7.2.1** | **Stage 3 of Multimedia Priority Service (MPS) Phase 2** |  |  |  |  | MPS2 |
|  |  |  |  |  |  |  |
| **7.2.2** | **Enhancement for the 5G Control Plane Steering of Roaming for UE in CONNECTED mode** |  |  |  |  | eCPSOR\_CON |
|  |  |  |  |  |  |  |
| **7.2.3** | **Authentication and key management for applications based on 3GPP credential in 5G** |  |  |  |  | AKMA-CT |
|  |  |  |  |  |  |  |
| **7.2.4** | **CT aspects on Dynamically Changing AM Policies in the 5GC** |  |  |  |  | TEI17\_DCAMP |
|  |  |  |  |  |  |  |
| **7.2.5** | **CT aspects of proximity based services in 5GS** |  |  |  |  | 5G\_ProSe |
|  |  |  |  |  |  |  |
| **7.2.6** | **CT aspects on Dynamic Management of Group-based Event Monitoring** |  |  |  |  | TEI17\_GEM |
|  |  |  |  |  |  |  |
| **7.2.7** | **CT aspects of 5GC architecture for satellite networks** |  |  |  |  | 5GSAT\_ARCH-CT |
|  |  |  |  |  |  |  |
| **7.2.8** | **CT aspects for Support of Unmanned Aerial Systems Connectivity, Identification, and Tracking** |  |  |  |  | ID\_UAS |
|  | **Plenary** | [2249](./docs/C4-242249.zip) | CR 29.256 0023 Rel-17 Correction on the policy parameters | CATT |  | WI ID\_UAS  CAT F |
|  | **Plenary** | [2250](./docs/C4-242250.zip) | CR 29.256 0024 Rel-18 Correction on the policy parameters | CATT |  | WI ID\_UAS  CAT A |
|  | **Plenary** | [2251](./docs/C4-242251.zip) | CR 29.256 0025 Rel-17 Correction on the source of Notification URI | CATT |  | WI ID\_UAS  CAT F |
|  | **Plenary** | [2252](./docs/C4-242252.zip) | CR 29.256 0026 Rel-18 Correction on the source of Notification URI | CATT |  | WI ID\_UAS  CAT A |
| **7.2.9** | **CT aspects of Enabling Multi-USIM devices** |  |  |  |  | MUSIM |
|  |  |  |  |  |  |  |
| **7.2.10** | **CT aspects of Access Traffic Steering, Switch and Splitting support in the 5G system architecture; Phase 2** |  |  |  |  | ATSSS\_PH2 |
|  |  |  |  |  |  |  |
| **7.2.11** | **CT aspects of Enhanced support of Non-Public Networks** |  |  |  |  | eNPN |
|  |  |  |  |  |  |  |
| **7.2.12** | **CT aspects of enhanced support of industrial IoT** |  |  |  |  | IIoT |
|  |  |  |  |  |  |  |
| **7.2.13** | **Enablers for Network Automation for 5G - phase 2** |  |  |  |  | eNA\_PH2 |
|  | **Main** | [2165](./docs/C4-242165.zip) | CR 29.531 0204 Rel-17 NWDAF as consumer of NSSF service | Huawei |  | WI eNA\_Ph2  CAT F |
|  | **Main** | [2166](./docs/C4-242166.zip) | CR 29.531 0205 Rel-18 NWDAF as consumer of NSSF service | Huawei |  | WI eNA\_Ph2  CAT A |
| **7.2.14** | **System enhancement for redundant PDU session** |  |  |  |  | TEI17\_SE\_RPS |
|  |  |  |  |  |  |  |
| **7.2.15** | **CT Aspects ofMinimisation of service Interruption** |  |  |  |  | MINT |
|  |  |  |  |  |  |  |
| **7.2.16** | **CT aspects of Architecture Enhancement for NR Reduced Capability Devices** |  |  |  |  | ARCH\_NR\_REDCAP |
|  |  |  |  |  |  |  |
| **7.2.17** | **Enhancements of 3GPP profiles for cryptographic algorithms and security protocols** |  |  |  |  | eCryptP |
|  |  |  |  |  |  |  |
| **7.2.18** | **CT aspects of NB-IoT/eMTC Non-Terrestrial Networks in EPS** |  |  |  |  | IoT\_SAT\_ARCH\_EPS |
|  |  |  |  |  |  |  |
| **7.2.19** | **CT4 aspects of EDGEAPP** |  |  |  |  | EDGEAPP |
|  |  |  |  |  |  |  |
| **7.2.20** | **CT4 aspects of enhancement of RAN Slicing for NR** |  |  |  |  | NRslice |
|  |  |  |  |  |  |  |
| **7.3** | **AoB for Rel-17** |  |  |  |  | TEI17, … |
| **7.3.1** | **TEI17** |  |  |  |  | TEI17 |
|  | **Plenary** | [2072](./docs/C4-242072.zip) | CR 29.553 0031 Rel-17 Non-Standard API Version Specification in Server URL | Orange |  | WI TEI17  CAT F |
|  | **Plenary** | [2073](./docs/C4-242073.zip) | CR 29.553 0032 Rel-18 Non-Standard API Version Specification in Server URL | Orange |  | WI TEI17  CAT A |
|  | **Plenary** | [2074](./docs/C4-242074.zip) | CR 29.505 0504 Rel-17 Naming mismatch in the OpenAPI specification | Orange, Nokia |  | WI TEI17  CAT F |
|  | **Plenary** | [2075](./docs/C4-242075.zip) | CR 29.505 0505 Rel-18 Naming mismatch in the OpenAPI specification | Orange, Nokia |  | WI TEI17  CAT A |
| **7.3.2** | **AoB of Rel-17** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **7.3.3** | **Open API version and External docs** |  |  |  |  | TEI17 |
|  |  |  | 29.256 0 Rel17 API version and External doc update | Qualcomm Incorporated | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.309 0 Rel17 API version and External doc update | Ericsson | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.502 0 Rel17 API version and External doc update | Nokia | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.503 0 Rel17 API version and External doc update | Nokia | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.504 0 Rel17 API version and External doc update | China Mobile | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.505 0 Rel17 External doc update | China Mobile | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.509 0 Rel17 API version and External doc update | Orange | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.510 0 Rel17 API version and External doc update | Ericsson | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.511 0 Rel17 API version and External doc update | Deutsche Telekom | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.515 0 Rel17 API version and External doc update | CATT | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.518 0 Rel17 API version and External doc update | Ericsson | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.526 0 Rel17 API version and External doc update | ZTE | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.531 0 Rel17 API version and External doc update | Huawei | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.532 0 Rel17 API version and External doc update | Huawei | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.536 0 Rel17 API version and External doc update | ZTE | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.540 0 Rel17 API version and External doc update | ZTE | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.541 0 Rel17 API version and External doc update | Ericsson | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.542 0 Rel17 API version and External doc update | Ericsson | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.544 0 Rel17 API version and External doc update | Nokia | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.550 0 Rel17 API version and External doc update | Orange | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.553 0 Rel17 API version and External doc update | CATT | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.555 0 Rel17 API version and External doc update | CATT | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.556 0 Rel17 API version and External doc update | Huawei | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.559 0 Rel17 API version and External doc update | CATT | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.562 0 Rel17 API version and External doc update | Ericsson | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.563 0 Rel17 API version and External doc update | Ericsson | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.564 0 Rel17 API version and External doc update | China Mobile | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.571 0 Rel17 API version and External doc update | Huawei | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.572 0 Rel17 API version and External doc update | Ericsson | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.573 0 Rel17 API version and External doc update | Huawei | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.577 0 Rel17 API version and External doc update | Huawei | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.578 0 Rel17 API version and External doc update | Nokia | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.579 0 Rel17 API version and External doc update | China Telecom | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.581 0 Rel17 API version and External doc update | Samsung | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.598 0 Rel17 API version and External doc update | CISCO | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.673 0 Rel17 API version and External doc update | Ericsson | Email approval | *CR possibly needed* Email approval |
|  |  |  |  |  |  |  |
| **8** | **Release 16 and earlier** |  |  |  |  |  |
| **8.1** | **CT4 Led WIs** |  |  |  |  |  |
| **8.1.1** | **CT aspects on Enhancements to the Service-Based 5G System Architecture** |  |  |  |  | 5G\_eSBA |
|  |  |  |  |  |  |  |
| **8.1.2** | **CT aspects of Enhancing Topology of SMF and UPF in 5G Networks** |  |  |  |  | ETSUN |
|  |  |  |  |  |  |  |
| **8.1.3** | **CT aspects of Enhancement to the 5GC LoCation Services** |  |  |  |  | 5G\_eLCS |
|  |  |  |  |  |  |  |
| **8.1.4** | **CT Aspects of Media Handling for RAN Delay Budget Reporting in MTSI** |  |  |  |  | E2E\_DELAY |
|  |  |  |  |  |  |  |
| **8.1.5** | **User data interworking, Coexistence and Migration** |  |  |  |  | UDICOM |
|  |  |  |  |  |  |  |
| **8.1.6** | **Service based Interface protocol improvements** |  |  |  |  | SBIProtoc16 |
|  |  |  |  |  |  |  |
| **8.1.7** | **CT aspects of optimisations on UE radio capability signalling** |  |  |  |  | RACS |
|  |  |  |  |  |  |  |
| **8.1.8** | **CT aspect of single radio voice continuity from 5GS to 3G** |  |  |  |  | 5G\_SRVCC |
|  |  |  |  |  |  |  |
| **8.1.9** | **CT Aspects of 5G URLLC** |  |  |  |  | 5G\_URLLC |
|  |  |  |  |  |  |  |
| **8.1.10** | **SBA interactions between IMS and 5GC** |  |  |  |  | eIMS5G\_SBA |
|  |  |  |  |  |  |  |
| **8.1.11** | **Load and Overload Control of 5GC Service Based Interfaces** |  |  |  |  | LOLC |
|  |  |  |  |  |  |  |
| **8.1.12** | **5GS Enhanced support of OTA mechanism for configuration parameter update** |  |  |  |  | 5GS\_OTAF |
|  |  |  |  |  |  |  |
| **8.1.13** | **CT aspects of support for integrated access and backhaul** |  |  |  |  | IABARC-CT |
|  |  |  |  |  |  |  |
| **8.1.14** | **Nudsf Service Based Interface** |  |  |  |  | NUDSF |
|  | **Plenary** | [2126](./docs/C4-242126.zip) | CR 29.598 0077 Rel-16 Corrections to OpenAPI | Ericsson |  | WI NUDSF  CAT F |
|  | **Plenary** | [2127](./docs/C4-242127.zip) | CR 29.598 0078 Rel-17 Corrections to OpenAPI | Ericsson |  | WI TEI17, NUDSF  CAT F |
|  | **Plenary** | [2128](./docs/C4-242128.zip) | CR 29.598 0079 Rel-18 Corrections to OpenAPI | Ericsson |  | WI TEI17, NUDSF  CAT A |
| **8.1.15** | **Nsoraf Service Based Interface** |  |  |  |  | NSORAF |
|  |  |  |  |  |  |  |
| **8.2** | **CT4 Supported WIs** |  |  |  |  |  |
| **8.2.1** | **CT aspects on Enablers for Network Automation for 5G** |  |  |  |  | eNA |
|  |  |  |  |  |  |  |
| **8.2.2** | **CT aspects of Access Traffic Steering, Switch and Splitting support in 5G system** |  |  |  |  | ATSSS |
|  |  |  |  |  |  |  |
| **8.2.3** | **CT aspects of 5GS enhanced support of vertical and LAN services** |  |  |  |  | Vertical\_LAN |
|  |  |  |  |  |  |  |
| **8.2.4** | **CT aspects of Cellular IoT support and evolution for the 5G System** |  |  |  |  | 5G\_CIoT |
|  |  |  |  |  |  |  |
| **8.2.5** | **CT aspects on enhancement of network slicing** |  |  |  |  | eNS |
|  |  |  |  |  |  |  |
| **8.2.6** | **CT aspects of System enhancements for Provision of Access to Restricted Local Operator Services by Unauthenticated Ues** |  |  |  |  | PARLOS |
|  |  |  |  |  |  |  |
| **8.2.7** | **CT aspects on wireless and wireline convergence for the 5G system architecture** |  |  |  |  | 5WWC |
|  |  |  |  |  |  |  |
| **8.2.8** | **CT aspects of architecture enhancements for 3GPP support of advanced V2X services** |  |  |  |  | eV2XARC |
|  |  |  |  |  |  |  |
| **8.2.9** | **CT aspects of application layer support for V2X services** |  |  |  |  | V2XAPP |
|  |  |  |  |  |  |  |
| **8.2.10** | **CT aspects on Enhancement of 3GPP Northbound APIs** |  |  |  |  | eNAPIs |
|  |  |  |  |  |  |  |
| **8.2.11** | **CT aspects on 5G System - Phase 1** |  |  |  |  | 5GS\_Ph1-CT |
|  |  |  |  |  |  |  |
| **8.3** | **AoB for Rel-16 and earlier** |  |  |  |  | TEI16, TEI15, TEI14, ….. |
| **8.3.1** | **TEI16, TEI15…** |  |  |  |  | TEI16, TEI15, TEI14, …. |
|  | **Plenary** | [2167](./docs/C4-242167.zip) | CR 29.531 0206 Rel-16 SMF as consumer of NSSF | Huawei |  | WI TEI16  CAT F |
|  | **Plenary** | [2168](./docs/C4-242168.zip) | CR 29.531 0207 Rel-17 SMF as consumer of NSSF | Huawei |  | WI TEI16  CAT A |
|  | **Plenary** | [2169](./docs/C4-242169.zip) | CR 29.531 0208 Rel-18 SMF as consumer of NSSF | Huawei |  | WI TEI16  CAT A |
| **8.3.2** | **AoB of Rel-16 and earlier** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **8.3.3** | **Open API version and External docs** |  |  |  |  | TEI16, TEI15 |
|  |  |  | 29.518 0 Rel16 API version and External doc update | Ericsson | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.531 0 Rel16 API version and External doc update | Huawei | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.572 0 Rel16 API version and External doc update | Ericsson | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.598 0 Rel16 API version and External doc update | CISCO | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.673 0 Rel16 API version and External doc update | Ericsson | Email approval | *CR possibly needed* Email approval |
|  |  |  | 29.572 0 Rel15 API version and External doc update | Ericsson | Email approval | *CR possibly needed* Email approval |
|  |  |  |  |  |  |  |
| **9** | **Update of the Work Plan** |  |  |  |  |  |
|  |  | 2010 | Work Plan Work Plan | CT4 Chair |  |  |
| **10** | **AoB** |  |  |  |  |  |
| **10.1** | **Rel-19 Related Discussions** |  |  |  |  |  |
|  | **Plenary** | [2199](./docs/C4-242199.zip) | discussion Rel-19 Enhancements for using multiple SEPPs in a PLMN | NTT DOCOMO |  |  |
|  | **Plenary** | [2241](./docs/C4-242241.zip) | CR 29.501 0156 Rel-19 Usage of GitLab Repository | Ericsson |  | WI TEI19  CAT B |
|  | **Plenary** | [2287](./docs/C4-242287.zip) | discussion Rel-19 Status of Rel-19 Multi-Access (DualSteer and ATSSS\_Ph4) Work in SA2 | Apple |  |  |
| **10.2** | **AoB** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **11** | **Future meetings** |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **12** | **Check of Approved Output Documents** |  |  |  |  |  |
|  |  | 2011 | other Output Documents | CT4 Chair |  |  |
| **13** | **Closing of the Meeting**  **(16:00 Local time Friday)** |  |  |  |  |  |
|  |  |  |  |  |  |  |