**3GPP TSG CT WG1 Meeting#130-e** **C1-212800**

**Electronic meeting, 20 - 28 May 2021**

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| Meeting documents by agenda item  Meeting: Meeting #130-e  Electronic meeting  20 - 28 May 2021  **All indicated times are UTC (except timestamps for comments during the e-meeting, which are in CEST)** | | | | | | | | | | |
| Cyan background means allocated but not available. | | | | | Yellow background means available but not yet treated document. | Green background means this document was agreed at a revious meeting in this plenary cycle. | | | | White background means that the document has been handled in the meeting and a decision has been made. |
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|  | | Additional Colour coding for Tdocs in the 1st row | | | | | | | | |
|  | | Late Papers | | | | | | | | |
|  | | Easy and uncontroversial papers – can be presented within 2 minutes | | | | | | | | |
|  | | Papers for common sessions | | | | | | | | |
|  | | Low Priority | | | | | | | | |
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| Agenda item | Agenda item title | | Tdoc | Title | | | Source | Spec | Result | |
|  | Opening & welcome | | Tdoc | Title | | | Source | Spec | Result | |
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|  |  | | **IPR Policy** Reminder to Individual Members and the persons making the technical proposals about their obligations under their respective Organizational Partners IPR Policy:    I draw your attention to your obligations under the 3GPP Partner Organizations' IPR policies. Every Individual Member organization is obliged to declare to the Partner Organization or Organizations of which it is a member any IPR owned by the Individual Member or any other organization which is or is likely to become essential to the work of 3GPP. | | | | | | | |
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|  |  | | **Antitrust & Competition** I also draw your attention to the fact that 3GPP activities are subject to all applicable antitrust and competition laws and that compliance with said laws is therefore required of any participant of this TSG/WG meeting including the Chair and Vice Chairman. In case of question I recommend that you contact your legal counsel.  The leadership shall conduct the present meeting with impartiality and in the interests of 3GPP.  Furthermore, I would like to remind you that timely submission of work items in advance of TSG/WG meetings is important to allow for full and fair consideration of such matters. | | | | | | | |
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|  |  | | **Usage if WiFi**  During 3GPP meetings, IT support staff have noticed an increasing amount of RF pollution from private, ad hoc, wireless networks (Wi-Fi Direct, hot-spots hosted on mobile phones, …), and this gives rise to reduced throughput capability of the 3GPP WLAN. I would like to remind delegates to disable all such non-3GPP Wi-Fi networks while they are in the meeting rooms or adjacent areas. This will allow the quality of connection to the 3GPP Wi-Fi network which delegates have a right to expect. | | | | | | | |
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|  |  | | Please remember:  - to perform the electronic registration before end-of-meeting  - to wear your badge | | | | | | | |
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|  | Agenda & Reports | | Tdoc | Title | | | Source | Doctype | Result & comments | |
|  |  | | C1-212800 | 3GPP TSG CT1#130-e – agenda for Tdoc allocation | | | CT1 chairman | agenda |  | |
|  |  | | C1-212801 | 3GPP TSG CT1#130-e – agenda after Tdoc allocation deadline | | | CT1 chairman | agenda |  | |
|  |  | | C1-212802 | 3GPP TSG CT1#130-e – agenda with proposed LS-actions | | | CT1 chairman | agenda |  | |
|  |  | | C1-212803 | 3GPP TSG CT1#130-e – agenda at start of meeting | | | CT1 chairman | agenda |  | |
|  |  | | C1-212804 | 3GPP TSG CT1#130-e – agenda Thursday | | | CT1 chairman | agenda |  | |
|  |  | | C1-212805 | 3GPP TSG CT1#130-e – agenda at end of meeting | | | CT1 chairman | agenda |  | |
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|  |  | | **Agenda**  **Start of e-meeting: Thursday May 20th 00:01 UTC**  **End of initial comments phase** **Wednesday May 10th 16:00 UTC**  Comment Free Time Thursday May 20th 10:00 - 14:00 UTC  Last revision upload: Thursday May 27th 14:00 UTC  Last comments: Friday May 28th 14:00 UTC  **Elections for CT1 ViceChair**  **1st Ballot:**   * Start of 1st ballot: Thursday, May 20, 18h00 UTC * End of 1st ballot: Friday, May 21, 12h00 UTC * Announcement result: Friday, roughly 15 mins after end of ballot   **2nd ballot**   * Start of 2nd ballot: Monday, May 24, 18h00 UTC * End of 2nd ballot: Tuesday, May 25, 12h00 UTC * Announcement result: Tuesday, roughly 15 mins after end of ballot   **3rd ballot**   * Start of 3rd  Ballot: Tuesday, May 25, 18h00 UTC * End of 3rd Ballot: Wednesday, May 26, 12h00 UTC * Announcement result: Wednesday, roughly 15 mins after end of ballot   1 Opening  2 Agenda and Reports  3 work organization  4 incoming LS (0)  **Rel-15 and earlier:**  8.1 all work items (0)  8.2 all work items (0)  9.1 all work items (0)  9.2 all work items (0)  10.1 all work items (0)  10.2 all work items (0)  11.1 all work items (0)  11.2 all work items (0)  12.1 all work items (0)  12.2 all work items (0)  13.1 all work items (0)  13.2 all work items (0)  13.3 all work items (0)  14.1 all work items (0)  14.2 all work items (0)  14.3 all work items (0)  15.1 all work items (0)  15.2 all work items (0)  15.3 all work items (0)  **Rel- Rel-16:**  **Agenda Items from 16.1**  16.1.x (0)  **Agenda Items from 16.2**  16.2.2 SINE\_5G (0)  16.2.3 SAES16 (all aspects) (0)  16.2.4 5GProtoc16 (all aspects) (0)  16.2.5 ATSSS (0)  16.2.6 eNS (0)  16.2.7.x vertical-LAN (0)  16.2.8 5G\_CIoT (0)  16.2.9 5WWC (0)  16.2.11 5G\_eLCS (0)  16.2.14 RACS (0)  16.2.15 5G\_SRVCC (0)  16.2.16 xBDT (0)  16.2.17 IAB-CT (0)  16.2.18 5GS\_OTAF (0)  16.2.19 5G\_URLLC (0)  16.2.21 Rel-16 non-IMS issues (0)  16.2.1 ePWS (0)  16.2.10 PARLOS (0)  16.2.12 V2XAPP (0)  16.2.13 eV2XARC (0)  16.2.20 SEAL (0)  **Agenda Items from 16.3**  16.3.1 MCCI\_CT (0)  16.3.2 MCProtoc16 (0)  16.3.5 void (0)  16.3.6 eMCDATA2 (0)  16.3.10 MONASTERY2 (0)  16.3.12 enh2MCPTT-CT (0)  16.3.3 MuD (0)  16.3.4 IMSProtoc16 (0)  16.3.7 E2E\_DELAY (0)  16.3.8 VBCLTE (0)  16.3.11 eIMS5G\_SBA (0)  16.3.13 eIMSVideo (0)  16.3.14 IMS/MC TEI16 (1)  **Rel-17:**  **Agenda Items from 17.1**  17.1.1 (0)  17.1.2 (0)  17.1.3 (0)  17.1.4 (0)  **Agenda Items from 17.2**  17.2.1 SAES17 (all aspects) (0)  17.2.2 5GProtoc17 (all aspects) (0)  17.2.3 eCPSOR\_CON (0)  17.2.4 5GSAT\_ARCH-CT (0)  17.2.5 SMS\_SBI (0)  17.2.6 AKMA-CT (0)  17.2.7 PAP\_CHAP (0)  17.2.8 RDSSI (0)  17.2.9 FS\_MINT-CT (0)  17.2.10 IIoT (0)  17.2.11 eNPN (0)  17.2.12 ATSSS\_Ph2 (0)  17.2.13 MUSIM (0)  17.2.14 eNS\_Ph2 (0)  17.2.15 5G\_eLCS\_ph2 (0)  17.2.16 EDGEAPP (0)  17.2.17 ID\_UAS (0)  17.2.18 5G\_ProSe (0)  17.2.19 eV2XAPP (0)  17.2.20 eEDGE\_5GC (0)  17.2.21 TEI17 (0)  **Agenda Items from 17.3**  17.3.1 IMSProtoc17 (0)  17.3.2 MCProtoc17 (0)  17.3.3 FS\_eIMS5G (0)  17.3.4 MuDe (0)  17.3.5 MPS2 (0)  17.3.6 eMCData3 (0)  17.3.7 MCSMI\_CT (0)  17.3.8 eMCCI\_CT (0)  17.3.9 enh3MCPTT-CT (0)  17.3.10 eMONASTERY2 (0)  17.3.11 Stop24980 (0)  17.3.12 TEI17\_SAPES (0)  17.3.13 TEI17 (0)  18 outgoing LS (0) | | | | | | | |
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|  | Work organisation | | Tdoc | Title | | | Source | To / CC | Result & comments | |
|  | Meeting schedule | |  |  | | | | | | |
|  |  | |  | CT1 and CT plenary meeting dates. | | | | | | |
|  |  | |  | Date | | | Meeting | | Venue | |
|  |  | |  | 25 – 29 January 2021 | | | CT1#127bis-e | | Electronic Meeting | |
|  |  | |  | 01 - 05 March 2021 | | | CT1#128 | | Cancelled | |
|  |  | |  | 25 Feb - 05 March 2021 | | | CT1#128-e | | Electronic Meeting | |
|  |  | |  | 22 – 24 March 2021 | | | CT plenary#91e | | Electronic Meeting | |
|  |  | |  | 19 – 23 April 2021 | | | CT1#129 | | Cancelled | |
|  |  | |  | 19 – 23 April 2021 | | | CT1#129-e | | Electronic Meeting | |
|  |  | |  | 24 – 28 May 2021 | | | CT1#130 | | Cancelled | |
|  |  | |  | 20 – 28 May 2021 | | | CT1#120-e | | Electronic Meeting | |
|  |  | |  | 14 – 16 June 2021 | | | CT plenary#92e | | Electronic Meeting | |
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|  | Work Plan and other adm. issues | | Tdoc | Title | | | Source | Spec / doctype | Result & comments | |
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|  | void | |  |  | | |  |  | Release 5 is closed | |
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|  | void | |  |  | | |  |  | Release 6 is closed | |
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|  | void | |  |  | | |  |  | Release 7 is closed | |
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|  | Release 8  work items | | Tdoc | Title | | | Source | Tdoc info | Result & comments | |
|  | Rel-8 IMS Work Items and issues:  MRFC  MRFC\_TS  UUSIW  PktCbl-Intw  PktCbl-Deploy  PktCbl-Sec  NBA  OAM8-Trace  Overlap  PRIOR  IMS\_RP  PNM  IMSProtoc2  IMS\_Corp  ICSRA  IMS-Cont  MAINT\_R1  MAINT\_R2  REDOC\_TIS-C1  REDOC\_3GPP2  CCBS-CCNR CW-IMS  FA  CAT-SS  TEI8 (IMS related issues)  + all other IMS related issues | |  | Jörgen – Breakout | | |  |  | All WIs completed  AS – MRFC protocol (This covers both the study item and the work item)  User – User Signalling interworking  Packetcable - Protocol enhancements  Packetcable - Regulatory requirements  Packetcable - Security requirements  NASS Bundled Authentication  Service level tracing in IMS  CT1 aspects of overlap signaling  Multimedia priority service  IMS restoration procedures  Personal Network Management (stage 2 and 3)  IP Multimedia Core Network Subsystem - IMS Stage3 Protocol Evolution for Rel-8  IMS corporate network access  IMS centralized service control  IMS Service Continuity  TISPAN R1 and R2 maintenance  3GPP and 3GPP2 re-documentation  IMS supplementary services:  Call Completion on Busy Subscriber (CCBS) / Call Completion on Non-Reachable (CCNR) in IMS Communication Waiting in IMS  Flexible alerting in IMS  Customized alerting tone in IMS | |
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|  | Rel-8 non-IMS Work Items and issues:  SAES  SAES-CSFB  SAES-SRVCC  HomeNB-LTE HomeNB-3G  ETWS  PPACR-CT1  EData  IWLANNSP  EVA  IWLAN\_Mob  TEI8 (non-IMS)  + all other non-IMS issues | |  | Peter – Main | | |  |  | All WIs completed  SAE issues  CS-Fallback  SRVCC  CSG, HomeeNB and HomeNB  Earthquake and tsunami warning systems  Paging Permission with Access Control  Data transfer during an emergency call  WLAN Network Selection Principles  Enhancements for VGCS applications  Mobility between 3GPP-WLAN Interworking and 3GPP Systems | |
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|  | Release 9  work items | | Tdoc | Title | | | Source | Tdoc info | Result & comments | |
|  | Rel-9 IMS Work Items and issues:  Work Items:  CRS  eCAT-SS  eMMTel-CC  IMSProtoc3  IMS\_SCC-SPI  IMS\_SCC-ICS  IMS\_SCC-ICS\_I1  EMC2  MEDIASEC\_CORE  PAN\_EPNM  IMS\_EMER\_GPRS\_EPS  IMS\_EMER\_GPRS\_EPS-SRVCC  TEI9 (IMS related)  + all other Rel-9 IMS issues | |  | Jörgen – Breakout | | |  |  | All WIs completed  IMS Supplementary services  IMS Customized Ringing Signal Service  Enhancements of IMS Customized Alerting Tone (CAT) Service  Enhancements for Completion of Communications Supplementary service  IMS Stage-3 IETF Protocol Alignment  IMS Service Continuity Enhancements: Service, Policy, Interactions, and Inter UE Transfer  Enhancements to IMS Centralized Services  IMS Centralized Services support via I1 interface  Definition of Ml interface for Control Plane LCS  IMS Media Plane Security  Support of Personal Area Networks and Enhancements to Personal Network Management  Emergency Call Enhancements for IP& PS Based Calls – stage 3 IMS part  SRVCC support for IMS Emergency Calls | |
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|  | Rel-9 non-IMS Work Items and issues:  IMS\_EMER\_GPRS\_EPS (non-IMS)  SSAC  VAS4SMS  PWS-St3  eANDSF  MUPSAP  LCS\_EPS-CPS  EHNB-CT1  TEI9 (non-IMS issues)  + all other Rel-9 non-IMS issues | |  | Peter - Main | | |  |  | All WIs completed  Support for IMS Emergency Calls over GPRS and EPS  Service Specific Access Control Requirements  Value-Added Services for Short Message Service  Public Warning System (PWS)  ANDSF while roaming  Multiple PDN Connection to the Same APN for PMIP-based Interfaces  Multiple PDN Connection to the Same APN for PMIP-based Interfaces  Control Plane LCS in the EPC  EHNB-issues for Rel-9 | |
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|  | Release 10  work items | | Tdoc | Title | | | Source | Tdoc info | Result & comments | |
|  | Rel-10 IMS Work Items and issues:  Work Items:  IMS\_SC\_eIDT  CCNL  eAoC  OMR  IESE  eSRVCC  aSRVCC  AT\_IMS  IMSProtoc4  + all other Rel-10 IMS issues | |  | Jörgen – Breakout | | |  |  | All WIs completed  IMS Inter-UE Transfer enhancements  Call Completion on Not Logged-in  AoC enhancements  Optimal Media Routing  IMS Emergency Session Enhancements  SRVCC enhancements  SRVCC in alerting phase  AT Commands for IMS-configuration  IMS Stage-3 IETF Protocol Alignment | |
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|  | Rel-10 non-IMS Work Items and issues:  Work Items:  ECSRA\_LAA-CN  eMPS-CN  NIMTC  AT\_UICC  SMOG-St3  IFOM-CT  LIPA  SIPTO  MAPCON-St3  TIGHTER  MOCN-GERAN  + all other Rel-10 non-IMS issues | |  | Peter – Main | | |  |  | All WIs completed  Enabling Coder Selection and Rate Adaptation for UTRAN and E-UTRAN for Load Adaptive Applications, CN impacts  Enhancements for Multimedia Priority Service  Network Improvements for Machine Type Communications  AT Commands for USAT  S2b Mobility based on GTP  IP Flow Mobility and WLAN offload  Local IP Access  Selected IP Traffic Offload  Multi Access PDN Connectivity  Tightened Link Level Performance Requirements for Single Antenna MS  Support of Multi-Operator Core Network by GERAN | |
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|  | Release 11  work items | | Tdoc | Title | | | Source | Tdoc info | Result & comments | |
|  | Rel-11 IMS Work Items and issues:  Work Items:  USSI  IOI\_IMS\_CH  RLI  IPXS  VINE-CT  MRB  GINI  RAVEL-CT  IOC  IODB  GBA-ext-St3  NWK-PL2IMS-CT  MMTel\_T.38\_FAX  vSRVCC-CT  rSRVCC-CT  ATURI  IMSProtoc5  + all other Rel-11 IMS issues | |  | Jörgen – Breakout | | |  |  | All WIs completed  USSD Simulation Service  IMS Interconnection Charging Enhancements for transit scenarios in multi operator environments  CT1 aspects of RLI  Advanced Interconnection of Services  Supp. 3G Voice Interworking w. Enterprise IP-PBX  Inclusion of Media Resource Broker  Support of RFC 6140 in IMS  Roaming Architecture for VoIMS w Local Breakout  IMS Overload Control  Operator Determined Barring  GBA Extension for re-use of SIP Digest credentials  Network Provided Location Information for IMS  Enhanced T.38 FAX support  SRVCC for 3G-CS  SRVCC from UTRAN/GERAN to E-UTRAN/HSPA  AT Commands for URI Support  IMS Stage-3 IETF Protocol Alignment | |
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|  | Rel-11 non-IMS Work Items and issues:  Work Items:  RT\_VGCS\_Red  SIMTC  SIMTC-CS  SIMTC-RAN\_OC  SIMTC-Reach  SIMTC-Sig  SIMTC-CN\_Pow  SIMTC-PS\_Only  BBAI  BBAI-BBI  BBAI-BBII  BBAI-BBIII  Full\_MOCN-GERAN  RT\_ERGSM  DIDA  SAMOG\_WLAN- CN  eNR\_EPC  PROTOC\_SMS\_SGs  SAES2  SAES2-CSFB  + all other Rel-11 non-IMS issues | |  | Peter – Main | | |  |  | All WIs completed  GCSMSC and GCR Redundancy for VGCS/VBS  System Improvements to Machine-Type Communications   * CS aspects for CT groups * Extended Access Barring for UTRAN and E-UTRAN for CT groups * Reachability Aspects * Signalling Optimizations * "CN-based" and power considerations   BroadBand Forum Accesses Interworking -  Building Block I, II and III  Full Support of Multi-Operator Core Network  Introduction of ER-GSM band for GSM-R  Data identification in ANDSF  Mobility based on GTP & PMIPv6 for WLAN access to EPC  enhanced Nodes Restoration for EPC  Enhancement of the Protocols for SMS over SGs  SAE Protocol Development | |
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|  | Release 12  work items | | Tdoc | Title | | | Source | Tdoc info | Result & comments | |
|  | Rel-12 IMS Work Items and issues:  bSRVCC  SMSMI-CT  TURAN-CT  IMS\_TELEP  eDRVCC  EMC\_PC  IMS\_RegCon-CT  BusTI-CT  UP6665  eIODB  IMS\_WebRTC  IMS\_Corp2  NNI\_RS  USSD\_MS  USSI-NET  RFC7044  FS\_NNI\_RS  eMEDIASEC-CT  IMS\_SSFDD  CVO-CT  SIS\_CT  FS\_REVOLTE\_IMS  NETLOC\_TWAN\_CT  ALTC  PCSCF\_RES  EVS\_codec-CT  IMSProtoc6  TEI12 (IMS related issues)  + all other Rel-12 IMS related issues | |  | Jörgen – Breakout | | |  |  | All WIs completed  Single Radio Voice Call Continuity (SRVCC) before ringing  SMS submit and delivery without MSISDN in IMS  Tunnelling of UE Services over Restrictive Access Networks  IMS-based Telepresence (Stage 3)  Dual-Radio VCC (DRVCC) enhancements  IMS Emergency PSAP Callback  CT aspects of IMS registration control  CT Aspects of IMS Business Trunking for IP-PBX in Static Mode of Operation  Updating IMS to conform to RFC 6665  Enhancements to IMS Operator Determined Barring  Web Real Time Communication (WebRTC) Access to IMS  Transfer of ETSI business trunking specifications  Indication of NNI Routeing scenarios in SIP requests  USSD method selection - stage-3  Network Initiated USSD Simulation Services in IMS  SI: Evaluation and introduction of RFC 7044 (History-Info)  Indication of NNI Routeing scenarios in SIP requests  CT aspects of Extended IMS media plane security  IM-SSF Application Server Service Data Descriptions  CT Aspects of Coordination of Video Orientation  CT Aspects of Signalling of Image Size  Technical Aspects on Roaming End to End scenarios with VoLTE IMS and other networks  CT aspects of Network Provided Location Information for IMS Trusted WLAN Access Network  Support of ALT-C attribute  P-CSCF restoration enhancements  CT Impacts of Codec for Enhanced Voice Services  IMS Stage-3 IETF Protocol Alignment | |
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|  | Rel-12 non-IMS Work Items and issues:  LIMONET-LIPA  REP-WMD  MTCe-UEPCOP-CT  ProSe-CT  SINE  SCM\_LTE-CT  UTRA\_LTE\_WLAN\_interw-CT  OPIIS-CT  eSaMOG\_St3  WORM-CT  WLAN\_NS-CT  LIMONET-SIPTO  Dia\_SGSN\_SMS  GCSE\_LTE-CT  MSRD\_VAMOS (GERAN)  DMCG (GERAN)  NewToN (GERAN)  SAES3  SAES3-CSFB  SAES3-non3GPP  TEI12 (non-IMS)  + all other Rel-12 non-IMS issues | |  | Peter – Main | | |  |  | All WIs completed  Core Network aspects of LIPA Mobility  Reporting Enhancements in Warning Message Delivery  UE Power Consumption Optimizations, stage 3  CT aspects of Proximity-based Services  Signalling Improvements for Network Efficiency  CT aspects of Smart Congestion Mitigation in E-UTRAN  CT aspects of WLAN/3GPP Radio Interworking  Operator Policies for IP Interface Selection  Enhanced S2a Mobility Over Trusted WLAN access to EPC for Stage 3  Optimized Offloading to WLAN in 3GPP RAT mobility  CT aspects of WLAN network selection for 3GPP terminals  Core Network aspects of SIPTO at the local network  Diameter based interface between SGSN and SMS central functions  CT aspects of Group Communication System Enablers for LTE  CT1 introduction of MS capability support for MS supporting MSRD for VAMOS  CT part: Downlink Multi Carrier GERAN  CT1 part of New Training Sequence Codes (TSC) for GERAN  general Stage-3 SAE Protocol Development  Stage-3 SAE Protocol Development related to Circuit Switched Fall Back  Stage-3 SAE Protocol Development related to non-3GPP access | |
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|  | Release 13  work items | | Tdoc | Title | | | Source | Tdoc info | Result & comments | |
|  | Rel-13 Mision Critical Work Items and issues:  MCPTT-CT MPTT-Prof | |  | Jörgen – Breakout on MC | | |  |  | All WIs completed  Mission Critical Push-To-Talk over LTE   * MCPTT call control protocol * MCPTT floor control protocol   Mission Critical general work   * Group management * Identity management * Management Object (MO) * Configuration management   IMS Profile to support Mission Critical Push To Talk over LTE | |
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|  | Rel-13 IMS Work Items and issues:  voE-UTRAN \_PPD-CT  QOSE2EMTSI-CT  DRuMS-CT  RTCP-MUX  IMSProtoc7  PCSCF\_RES\_WLAN  INNB\_IW  mSRVCC  eWebRTCi\_CT  ROI-CT TEI13 (IMS related issues)  + all other Rel-13 IMS related issues | |  | Jörgen – Breakout on IMS | | |  |  | All WIs completed  Voice over E-UTRAN Paging Policy Differentiation  QoS End to End MTSI extensions  Double Resource Reuse for Multiple Media Sessions  Support of RTP / RTCP transport multiplexing (signalling) in IMS  IMS Stage-3 IETF Protocol Alignment for Rel-13  P-CSCF Restoration Enhancements with WLAN  Interworking solution for Called IN number and original called IN number ISUP parameters  Message interworking during PS to CS SRVCC  Enhancements to WEBRTC interoperability stage 3  Video Enhancements by Region-Of-Interest information signalling | |
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|  | Rel-13 non-IMS Work Items and issues:  eProSe-Ext-CT  RISE  WSR\_EPS  ePCSCF\_WLAN  SAES4  SAES4-CSFB  SAES4-non3GPP  EVSoCS-CT  MONTE-CT  MEI\_WLAN  ASI\_WLAN  NBIFOM-CT  GROUPE-CT  eDRX-CT  SEW1-CT  CIoT-CT  NB\_IOT  EC-GSM-IoT  EASE\_EC\_GSM  DECOR-CT  TEI13 (non-IMS)  + all other Rel-13 non-IMS issues | |  | Peter – Main | | |  |  | All WIs completed  Enhancements to Proximity-based Services extensions  Retry restriction for Improving System Efficiency  Warning Status Report in EPS  Enhanced P-CSCF discovery using signalling for access to EPC via WLAN  general Stage-3 SAE Protocol Development  Stage-3 SAE Protocol Development related to Circuit Switched Fall Back  Stage-3 SAE Protocol Development related to non-3GPP access  EVS in 3G Circuit-Switched Networks  Monitoring Enhancements CT aspects  Mobile Equipment signalling over the WLAN access  Authentication Signalling Improvements for WLAN  IP Flow Mobility support for S2a and S2b Interfaces  Group based Enhancements  CT aspects of extended DRX cycle for power consumption optimization  CT aspects of Support of Emergency services over WLAN – phase 1  CT1 aspects of WIs with IoT-functionality (WIs from C, RAN & SA  Dedicated Core Networks CT aspects | |
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|  | Release 14  work items | | Tdoc | Title | | | Source | Tdoc info | Result & comments | |
|  | Rel-14 Mision Critical Work Items and issues:  MCImp-MCVIDEO-CT MCImp-MCDATA-CT MCImp-eMCPTT-CT MCPTTProtoc1 | |  | Jörgen | | |  |  | All WIs completed  Mission Critical Video – CT aspects Mission Critical Data – CT aspects Enhancements for Mission Critical Push To Talk – CT aspects Technical enhancements for Mission Critical Push To Talk over LTE protocol aspects | |
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|  | Rel-14 IMS Work Items and issues:  ISAT MMCMH\_Enh-CT IOC\_UE\_conf PWDIMS-CT IMSProtoc8 V8-CT RobVoLTE-CT REAS\_EXT CH14-DCCII-CT SPECTRE-CT TEI14 (IMS related issues)  + all other Rel-14 IMS related issues | |  | Jörgen – Breakout on IMS | | |  |  | All WIs completed  IMS Signalling Activated Trace CT1 aspects of MTSI Extension on Multi-stream Multiparty Improved operator control using new UE configuration parameters Password based service activation for IMS Multimedia Telephony service IMS Stage-3 IETF Protocol Alignment for Rel-14 CT Aspects of S8 Home Routing Architecture for VoLTE CT Aspects of Robust Call Setup for VoLTE subscriber in LTE SIP Reason header extension CT Aspects of Determination of Completeness of Charging Information in IMS User Controlled Spoofed Call Treatment | |
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|  | Rel-14 non-IMS Work Items and issues:  EIEI-CT NonIP\_GPRS-CT EWE-CT SAES5 SAES5-CSFB SAES5-non3GPP V2X-CT eDECOR-CT AT\_CIoT SEW2-CT ERP-CT AE\_enTV-CT CIoT-Ext-CT PS\_DATA\_OFF-CT TEI14 (non-IMS)  + all other Rel-14 non-IMS issues | |  | Peter – Main | | |  |  | All WIs completed  CT aspects of evolution to and interworking with eCall in IMS CT aspects for Non-IP for Cellular Internet of Things for 2G/3G-GPRS EIR check for WLAN access to EPC general Stage-3 SAE Protocol Development Stage-3 SAE Protocol Development related to Circuit Switched Fall Back Stage-3 SAE Protocol Development related to non-3GPP access CT aspects of V2X Services CT aspects of Enhancements of Dedicated Core Networks AT Commands for CIoT CT aspects of Support of Emergency services over WLAN – phase 2 Support of EAP Re-authentication Protocol for WLAN Interworking CT aspects of system architecture enhancements for TV service Core network aspects of extended Architecture support for CIoT CT aspects of PS data off function | |
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|  | Release 15  work items | | Tdoc | **Not in scope of the meeting** | | | Source | Tdoc info | Result & comments | |
|  | Rel-15 Mission Critical work items and issues:  eMCVideo-CT  eMCDATA-CT  enhMCPTT-CT  MCProtoc15  MONASTERY  MBMS\_MCservices | |  | Jörgen | | |  |  | All work items complete  Enhancements to Mission Critical Video – CT aspects  Enhancements for Mission Critical Data – CT aspects  Enhancements for Mission Critical Push-to-Talk – CT aspects  Protocol enhancements for Mission Critical Services sion Critical Push-to-Talk – CT aspects  Mobile Communication System for Railways  MBMS usage for mission critical communication services | |
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|  | Rel-15 IMS work items and issues  5GS\_Ph1-IMSo5G  eCNAM-CT  FS\_PC\_VBC (CT3)  IMSProtoc9  bSRVCC\_MT  eSPECTRE  PC\_VBC (CT3)  TEI15 (IMS) | |  | Jörgen | | |  |  | All work items complete  IMS impact due to 5GS IP-CAN  CT aspects of Enhanced Calling Name Service  Study on Policy and Charging for Volume Based Charging  IMS Stage-3 IETF Protocol Alignment for Rel-15  SRVCC for terminating call in pre-alerting phase  Enhancements to Call spoofing functionality Policy and Charging for Volume Based Charging | |
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|  | Rel-15 non-IMS/non-MC work items and issues  5GS\_Ph1-CT EDCE5-CT ProSe\_WLAN\_DD\_Stage3 VoWLAN-CT PS\_DATA\_OFF2-CT LTE\_LIGHT\_CON-CT AT\_CIoT-Ext SAES6 INOBEAR-CT TEI15 | |  | Peter | | |  |  | All work items complete  CT aspects on 5G System - Phase 1  EPC enhancements to support 5G New Radio via Dual Connectivity Inclusion of WLAN direct discovery technologies as an alternative for ProSe direct discovery Complementary Features for Voice services over WLAN PS Data Off Phase 2 CT aspects of signalling reduction to enable light connection for LTE AT Commands for CIoT-Ext Stage-3 SAE Protocol Development for Rel-15 Increasing the number of EPS bearers Other Rel-15 non-IMS topics | |
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|  | Release 16  work items | | Tdoc | Title | | | Source | Tdoc info | Result & comments | |
|  | Tdocs on Work Items | |  |  | | |  |  | Papers related to Rel-16 Work Items | |
|  | Work Item Descriptions | |  | Peter - Main | | |  |  | New and revised Work Item Descritpions  Rel-16 is frozen | |
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|  | CRs and Discussion Documents related to new or revised Work Items | |  | Peter - Main | | |  |  | CRs and Disc papers related to new Work Items  Rel-16 is frozen | |
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|  | Status of other Work Items | |  | Peter - Main | | |  |  | Status information on other relevant Rel-16 Work Items | |
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|  | Release 16 documents for information | |  | Peter - Main | | |  |  | Miscellaneous documents provided for information | |
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|  | WIs for common and SAE/5G | |  |  | | |  |  | WIs mainly targeted for common sessions or the SAE/5G breakout  **All work items complete** | |
|  | ePWS | |  | Lena – Main | | |  |  | CT aspects of enhancements of Public Warning System | |
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|  | SINE\_5G | |  | Peter – Main | | |  |  | Signalling Improvements for Network Efficiency in 5GS | |
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|  | SAES16 WIs | |  | Peter – Main | | |  |  | Stage-3 SAE protocol pevelopment for Rel-16 | |
|  | SAES16 | |  | Peter – Main | | |  |  | General Stage-3 SAE protocol development | |
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|  | SAES16-CSFB | |  | Peter – Main | | |  |  | Stage-3 SAE protocol development related to Circuit Switched Fall Back | |
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|  | SAES16-non3GPP | |  | Peter – Main | | |  |  | Stage-3 SAE protocol development related to non-3GPP access | |
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|  | 5GProtoc16 WIs | |  | Peter – Main | | |  |  | Stage-3 5GS NAS protocol development for Rel-16 | |
|  | 5GProtoc16 | |  |  | | |  |  | General Stage-3 5GS NAS protocol development | |
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|  | 5Gprotoc16-non3GPP | |  | Peter – Main | | |  |  | Stage-3 5GS NAS protocol development related to non-3GPP access | |
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|  | ATSSS | |  | Peter – Main | | |  |  | CT aspects of Access Traffic Steering, Switch and Splitting support in 5G system | |
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|  | eNS | |  | Peter – Main | | |  |  | CT aspects on enhancement of network slicing | |
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|  | Vertical\_LAN | |  | Peter – Main | | |  |  | CT aspects of 5GS enhanced support of vertical and LAN services | |
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|  | 5G\_CioT | |  | Peter – Main | | |  |  | CT aspects of Cellular IoT support and evolution for the 5G System | |
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|  | 5WWC | |  | Peter – Main | | |  |  | CT aspects on wireless and wireline convergence for the 5G system architecture | |
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|  | PARLOS | |  | Lena – Breakout | | |  |  | CT aspects of System enhancements for Provision of Access to Restricted Local Operator Services by Unauthenticated UEs | |
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|  | 5G\_eLCS (CT4) | |  | Peter – Main | | |  |  | CT aspects of Enhancement to the 5GC LoCation Services | |
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|  | V2XAPP | |  | Lena – Breakout | | |  |  | CT aspects of V2XAPP | |
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|  | eV2XARC | |  | Lena – Breakout | | |  |  | CT aspects of eV2XARC | |
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|  | RACS (CT4 lead) | |  | Peter – Main | | |  |  | CT aspects of optimizations on UE radio capability signalling | |
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|  | 5G\_SRVCC (CT4 lead) | |  | Peter – Main | | |  |  | CT aspects of single radio voice continuity from 5GS to 3G | |
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|  | xBDT (CT3 lead) | |  | Peter – Main | | |  |  | CT aspects on 5GS Transfer of Policies for Background Data | |
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|  | IAB-CT (CT4 lead) | |  | Peter – Main | | |  |  | CT aspects of support for integrated access and backhaul (IAB) | |
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|  | 5GS\_OTAF (CT4 lead) | |  | Peter – Main | | |  |  | 5GS Enhanced support of OTA mechanism for UICC configuration parameter update | |
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|  | 5G\_URLLC (CT4 lead) | |  | Peter – Main | | |  |  | CT aspects of CT Aspects of 5G URLLC | |
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|  | SEAL | |  | Lena – Breakout | | |  |  | CT aspects of Service Enabler Architecture Layer for Verticals | |
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|  | Other Rel-16 non-IMS issues | |  | Peter – Main | | |  |  | Other Rel-16 non-IMS topics | |
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|  | Wis for IMS | |  | Jörgen – Breakout | | |  |  | **All work items complete** | |
|  | MCCI\_CT | |  |  | | |  |  | Mission Critical Communication Interworking with Land Mobile Radio Systems | |
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|  | MCProtoc16 | |  | Jörgen – Breakout | | |  |  | Protocol enhancements for Mission Critical Services for Rel-16 | |
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|  | MuD | |  | Jörgen – Breakout | | |  |  | Multi-device and multi-identity | |
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|  | IMSProtoc16 | |  | Jörgen – Breakout | | |  |  | IMS Stage-3 IETF Protocol Alignment for Rel-16 | |
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|  | eMCData2 | |  | Jörgen – Breakout | | |  |  | CT aspects of Enhancements to Functional architecture and information flows for Mission Critical Data | |
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|  | E2E\_DELAY (CT4) | |  | Jörgen – Breakout | | |  |  | CT Aspects of Media Handling for RAN Delay Budget Reporting in MTSI | |
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|  | VBCLTE (CT3 lead) | |  | Jörgen – Breakout | | |  |  | Volume Based Charging Aspects for VoLTE CT  (CT1 no longer impacted) | |
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|  | ISAT-MO-WITHDRAW | |  | Jörgen – Breakout | | |  |  | Withdrawal of TS 24.323 from Rel-11, Rel-12, Rel-13  No CRs needed, listed for the sake of completeness | |
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|  | MONASTERY2 | |  | Jörgen – Breakout | | |  |  | Mobile Communication System for Railways Phase 2 | |
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|  | eIMS5G\_SBA | |  | Jörgen – Breakout | | |  |  | CT aspects of SBA interactions between IMS and 5GC | |
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|  | enh2MCPTT-CT | |  | Jörgen – Breakout | | |  |  | Enhancements for Mission Critical Push-to-Talk CT aspects | |
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|  | eIMSVideo | |  | Jörgen – Breakout | | |  |  | Video enhancement of IMS CAT/CRS/announcement services | |
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|  | Other Rel-16 IMS & MC issues | |  | Jörgen – Breakout | | |  |  | Other Rel-16 IMS topics | |
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|  | Release 17  work items | | Tdoc | Title | | | Source | Tdoc info | Result & comments | |
|  | Tdocs on work items | |  |  | | |  |  |  | |
|  | Work Item Descriptions | |  | Peter - Main | | |  |  | New and revised Work Item Descritpions | |
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|  | CRs and Discussion Documents related to new or revised Work Items | |  | Peter - Main | | |  |  | CRs and Disc papers related to new Work Items | |
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|  | Status of other Work Items | |  | Peter - Main | | |  |  | Status information on other relevant Rel-17 Work Items | |
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|  | Release 17 documents for information | |  | Peter - Main | | |  |  | Miscellaneous documents provided for information | |
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|  | WIs for common and EPS/5GS | |  |  | | |  |  | WIs mainly targeted for common sessions and EPS/5GS | |
|  | SAES17 WIs | |  | Peter - Main | | |  |  | Stage-3 SAE protocol development for Rel-17 | |
|  | SAES17 | |  | Peter - Main | | |  |  | General Stage-3 SAE protocol development | |
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|  | SAES17-CSFB | |  | Peter - Main | | |  |  | Stage-3 SAE protocol development related to Circuit Switched Fall Back | |
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|  | SAES17-non3GPP | |  | Peter - Main | | |  |  | Stage-3 SAE protocol development related to non-3GPP access | |
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|  | 5GProtoc17 WIs | |  | Peter - Main | | |  |  | Stage-3 5GS NAS protocol development for Rel-17 | |
|  | 5GProtoc17 | |  | Peter - Main | | |  |  | General Stage-3 5GS NAS protocol development | |
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|  | 5GProtoc17-non3GPP | |  | Peter - Main | | |  |  | Stage-3 5GS NAS protocol development related to non-3GPP access | |
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|  | eCPSOR\_CON | |  | Peter –Main | | |  |  | Enhancement for the 5G Control Plane Steering of Roaming for UE in CONNECTED mode | |
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|  | 5GSAT\_ARCH-CT | |  | Peter –Main | | |  |  | CT aspects of 5GC architecture for satellite networks  New TR 24.821 | |
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|  | SMS\_SBI (CT4 lead) | |  | Peter –Main | | |  |  | Service-based support for SMS in 5GC | |
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|  | AKMA-CT (CT3 lead) | |  | Peter –Main | | |  |  | Authentication and key management for applications based on 3GPP credential in 5G | |
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|  | PAP\_CHAP (CT3 lead) | |  | Peter –Main | | |  |  | CT aspects on PAP/CHAP protocols usage in 5GS | |
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|  | RDSSI | |  | Peter –Main | | |  |  | Reliable Data Service Serialization Indication  100% | |
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|  | FS\_MINT-CT | |  | Peter –Main | | |  |  | Study on the CT aspects of Support for Minimization of service Interruption | |
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|  | IIoT | |  | Peter –Main | | |  |  | CT aspects of enhanced support of Industrial IoT | |
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|  | eNPN | |  | Peter –Main | | |  |  | CT aspects of Enhanced support of Non-Public Networks | |
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|  | ATSSS\_Ph2 | |  | Peter –Main | | |  |  | CT aspects of Access Traffic Steering, Switch and Splitting support in the 5G system architecture; Phase 2 | |
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|  | MUSIM | |  | Peter –Main | | |  |  | Enabling Multi-USIM devices | |
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|  | eNS\_Ph2 | |  | Peter –Main | | |  |  | Enhancement of Network Slicing Phase 2 | |
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|  | 5G\_eLCS\_ph2 | |  | Peter –Main | | |  |  | Enhancement to the 5GC LoCation Services-Phase 2 | |
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|  | EDGEAPP (CT3 lead) | |  | Lena - Breakout | | |  |  | CT aspects for Enabling Edge Applications | |
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|  | ID\_UAS | |  | Lena –Breakout | | |  |  | CT aspects for Support of Uncrewed Aerial Systems Connectivity, Identification, and Tracking | |
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|  | 5G\_ProSe | |  | Lena–Breakout | | |  |  | CT aspects of Enhancement for Proximity based Services in 5GS | |
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|  | eV2XAPP | |  | Lena–Breakout | | |  |  | CT aspects of Enhanced application layer support for V2X services | |
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|  | eEDGE\_5GC | |  | Lena–Breakout | | |  |  | CT Aspects of 5G eEDGE | |
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|  | Other Rel-17 issues (TEI17) | |  | Peter - Main | | |  |  | Other Rel-17 topics | |
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|  | WIs for IMS and MC | |  | Jörgen – Breakout | | |  |  | Work items on IMS and Mission Critical | |
|  | IMSProtoc17 | |  | Jörgen – Breakout | | |  |  | IMS Stage-3 IETF Protocol Alignment for Rel-17 | |
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|  | MCProtoc17 | |  | Jörgen – Breakout | | |  |  | Protocol enhancements for Mission Critical Services for Rel-17 | |
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|  | FS\_eIMS5G2 | |  | Jörgen – Breakout | | |  |  | Study on enhanced IMS to 5GC Integration Phase 2 | |
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|  | MuDe | |  | Jörgen – Breakout | | |  |  | Multi-device and multi-identity enhancements | |
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|  | MPS2 (CT3 lead) | |  | Jörgen – Breakout | | |  |  | Stage 3 of Multimedia Priority Service (MPS) Phase 2 | |
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|  | eMCData3 | |  | Jörgen – Breakout | | |  |  | CT aspects of Enhancements to Mission Critical Data | |
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|  | MCSMI\_CT | |  | Jörgen – Breakout | | |  |  | Mission Critical system migration and interconnection  Shifted from Rel-16 | |
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|  | eMCCI\_CT | |  | Jörgen – Breakout | | |  |  | CT aspects of Enhanced Mission Critical Communication Interworking with Land Mobile Radio Systems | |
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|  | enh3MCPTT-CT | |  | Jörgen – Breakout | | |  |  | CT aspects of Enhanced Mission Critical Push-to-talk architecture phase 3 | |
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|  | eMONASTERY2 | |  | Jörgen – Breakout | | |  |  | Enhancements to Mobile Communication System for Railways Phase 2 | |
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|  | Stop24980 | |  | Jörgen – Breakout | | |  |  | Stop updating TR 24.980  No CRs needed, 100% | |
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|  | TEI17\_SAPES | |  | Jörgen – Breakout | | |  |  | CT aspects on support for Signed Attestation for Priority and Emergency Sessions | |
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|  | Other Rel-17 IMS & MC issues (TEI17) | |  | Jörgen – Breakout | | |  |  | Other Rel-17 IMS and MC topics | |
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|  | Output Liaison Statements | | Tdoc | Title | | | Prepared by | To/CC | Result & comment | |
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|  | Late and misplaced documents | | Tdoc | Title  Prioritization of documents within this category will be done during the meeting.  Some tdocs are left in the main agenda item, although they are late (e.g. papers reporting IETF progress, which are usually more up to date the later they are submitted) | | | Source | Tdoc info | Result & comments  Late documents and documents which were submitted with erroneous or incomplete information | |
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|  | Closing  Friday  by 15:00 UTC at the latest | |  | Did you mark your attendance to this meeting? | | |  |  | Any meeting document which is not mentioned in this report or with no recorded decision shall be interpreted as "reserved", i.e. not defined and shall be ignored if received | |
|  |  | |  | **Last upload of revisions:**  **Thursday May 27the 2021 14:00 UTC**  **Last comments:**  **Friday Nay 28th 2021 14:00 UTC** | | |  |  |  | |
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