**3GPP TSG CT WG1 Meeting#141e** **C1-23xxx1**

**Electronic, 17 – 21 April 2023**

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| Meeting documents by agenda itemMeeting:Meeting #141e17 21 April 2023**All indicated times are UTC**  |
| Cyan background means allocated but not available. | Yellow background means available but not yet treated document. | Green background means this document was agreed at a revious meeting in this plenary cycle. | White background means that the document has been handled in the meeting and a decision has been made. |
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|  | Additional Colour coding for Tdocs in the 1st row |
|  | Late Papers |
|  | Easy and uncontroversial papers – can be presented within 2 minutes |
|  | Papers for common sessions |
|  | Low Priority |
|  |
| Agenda item | Agenda item title | Tdoc | Title | Source | Spec | Result |
|  | Opening & welcome | Tdoc | Title | Source | Spec | Result |
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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 |
|  |  | C1-23xxx1 | 3GPP TSG CT1#141e – agenda for Tdoc allocation  | CT1 chair | agenda  | Revision of C1-230001 |
|  |  | C1-23xxx2 | 3GPP TSG CT1#141e – agenda after Tdoc allocation deadline | CT1 chair | agenda  |  |
|  |  | C1-23xxx3 | 3GPP TSG CT1#141e – agenda with proposed LS-actions | CT1 chair | agenda  |  |
|  |  | C1-23xxx4 | 3GPP TSG CT1#141e – agenda at start of meeting | CT1 chair | agenda  |  |
|  |  | C1-23xxx5 | 3GPP TSG CT1#141e – agenda Thursday evening  | CT1 chair | agenda |  |
|  |  | C1-23xxx6 | 3GPP TSG CT1#141e – agenda at end of meeting | CT1 chair | agenda  |  |
|  |  | C1-23xxx7 | Draft previous CT1 meeting report for approval | MCC | report  |  |
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|  |   | ***Agenda*****Please register before MONDAY, April 10th, 00:01 UTC**Start of meeting: Monday April 17th 00:01 UTCEnd of initial comments phase Tuesday April 18th 16:00 UTCComment free time Thursday April 20th 10:00 - 14:00 UTCLast revision upload Thursday April 20th 14:00 UTCExtended last revision upload Friday April 21st 00:01 UTCEnd of meeting (Last comments): Friday April 21st 14:00 UTC**Elections for CT1 Chair** **1st ballot:*** Start of 1st ballot: Monday, April 17, 18h00 UTC
* End of 1st ballot: Tuesday, April 18, 12h00 UTC

**2nd ballot*** Start of 2nd ballot: Tuesday, April 18, 18h00 UTC
* End of 2nd ballot: Wednesday, April 19, 12h00 UTC

**3rd ballot*** Start of 3rd  Ballot: Wednesday, April 19, 18h00 UTC
* End of 3rd Ballot: Thursday, April 20, 12h00 UTC

 1 Opening 2 Agenda and Reports 3 work organization  4 incoming LS () **Rel-17 and earlier not in scope of the meeting**Only exception are documents related to C1-230735 “Research highlighting potential 5G and 4G Bidding Down Attacks”**Please provide related documents under agenda item 18.2.1.1 (SAES18), indpendantly of the target release for those** **documents****Rel-18:** **Agenda Items from 18.1** 18.1.1 (0) 18.1.2 (0) 18.1.3 (0) 18.1.4 (0)**Agenda Items from 18.2** 18.2.1 SAES18 (all aspects) (0) 18.2.2 5GProtoc18 (all aspects) (0) 18.2.3 NBI18 (0) 18.2.4 SENSE () 18.2.5 eNPN\_Ph2 (0) 18.2.6 SUECR (0) 18.2.7 5WWC\_Ph2 () 18.2.8 TEI18\_SDNAEPC (0) 18.2.9 NR\_REDCAP\_Ph2 (0) 18.2.10 TEI18\_IPv6PD () 18.2.11 TRS\_URLLC (0) 18.2.12 DetNet (0) 18.2.13 eUEPO () 18.2.14 UASAPP\_Ph2 (0) 18.2.15 V2XAPP\_Ph3 (0) 18.2.16 SEALDD () 18.2.17 SEAL\_Ph3 (0) 18.2.18 5G\_ProSe\_Ph2 (0) 18.2.19 5G\_eLCS\_Ph3 () 18.2.20 EDGEAPP\_Ph2 () 18.2.21 UAS\_Ph2 () 18.2.22 VMR () 18.2.23 Ranging\_SL () 18.2.24 eNS\_Ph3 () 18.2.25 5GFLS () 18.2.26 PINAPP () 18.2.27 PIN () 18.2.28 5GMARCH\_Ph2 () 18.2.29 ADAES () 18.2.30 ATSSS\_Ph3 () 18.2.31 UEConfig5MBS () 18.2.32 5GSAT\_Ph2 () 18.2.33 5MBS\_Ph2 () 18.2.34 GMEC () 18.2.35 TEI18 (0)**Agenda Items from 18.3** 18.3.1 MCProtoc18 (0) 18.3.2 MPSSupServ (0) 18.3.3 IMSProtoc18 () 18.3.4 MCOver5GProSe () 18.3.5 MCOver5MBS () 18.3.6 eMCSMI\_IRail () 18.3.7 MCGWUE () 18.3.8 NG\_RTC () 18.3.9 TEI18 (0) 19 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 |
|  |  |  | 07 Feb – 03 March 2023 | CT1#140 | Athens |
|  |  |  | 20 – 21 March 2023 | CT#99 | Rotterdam |
|  |  |  | 17 – 21 April 2023 | CT#141e | electronic |
|  |  |  | 22 – 26 May 2023 | CT1#142 | Bratislava |
|  |  |  | 12 – 14 June 2023 | CT#100e | Taipei |
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|  | Work Plan and other adm. issues | Tdoc | Title | Source | Spec /doctype | Result & comments |
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|  | void |  |  |  |  | Release 6 is closed |
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|  | void |  |  |  |  | Release 7 is closed |
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|  | Release 8work items | Tdoc | **Not in scope of the meeting** | Source | Tdoc info  | Result & comments |
|  | Rel-8 IMS Work Items and issues:MRFCMRFC\_TSUUSIWPktCbl-IntwPktCbl-DeployPktCbl-SecNBAOAM8-TraceOverlapPRIORIMS\_RPPNMIMSProtoc2IMS\_CorpICSRAIMS-ContMAINT\_R1MAINT\_R2REDOC\_TIS-C1REDOC\_3GPP2CCBS-CCNR CW-IMSFACAT-SSTEI8 (IMS related issues)+ all other IMS related issues |  | Jörgen – Breakout |  |  | All WIs completedAS – MRFC protocol (This covers both the study item and the work item)User – User Signalling interworkingPacketcable - Protocol enhancementsPacketcable - Regulatory requirementsPacketcable - Security requirementsNASS Bundled AuthenticationService level tracing in IMSCT1 aspects of overlap signalingMultimedia priority serviceIMS restoration proceduresPersonal Network Management (stage 2 and 3)IP Multimedia Core Network Subsystem - IMS Stage3 Protocol Evolution for Rel-8IMS corporate network accessIMS centralized service controlIMS Service ContinuityTISPAN R1 and R2 maintenance 3GPP and 3GPP2 re-documentationIMS supplementary services:Call Completion on Busy Subscriber (CCBS) / Call Completion on Non-Reachable (CCNR) in IMS Communication Waiting in IMSFlexible alerting in IMSCustomized alerting tone in IMS |
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|  | Rel-8 non-IMS Work Items and issues: SAESSAES-CSFBSAES-SRVCCHomeNB-LTE HomeNB-3GETWSPPACR-CT1EDataIWLANNSPEVAIWLAN\_MobTEI8 (non-IMS)+ all other non-IMS issues |  | Peter – Main |  |  | All WIs completedSAE issuesCS-FallbackSRVCCCSG, HomeeNB and HomeNBEarthquake and tsunami warning systemsPaging Permission with Access ControlData transfer during an emergency callWLAN Network Selection PrinciplesEnhancements for VGCS applicationsMobility between 3GPP-WLAN Interworking and 3GPP Systems |
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|  | Release 9work items | Tdoc | **Not in scope of the meeting** | Source | Tdoc info  | Result & comments |
|  | Rel-9 IMS Work Items and issues:Work Items:CRSeCAT-SSeMMTel-CCIMSProtoc3IMS\_SCC-SPIIMS\_SCC-ICSIMS\_SCC-ICS\_I1EMC2MEDIASEC\_COREPAN\_EPNMIMS\_EMER\_GPRS\_EPS IMS\_EMER\_GPRS\_EPS-SRVCCTEI9 (IMS related)+ all other Rel-9 IMS issues |  | Jörgen – Breakout  |  |  | All WIs completedIMS Supplementary servicesIMS Customized Ringing Signal ServiceEnhancements of IMS Customized Alerting Tone (CAT) Service Enhancements for Completion of Communications Supplementary serviceIMS Stage-3 IETF Protocol AlignmentIMS Service Continuity Enhancements: Service, Policy, Interactions, and Inter UE TransferEnhancements to IMS Centralized ServicesIMS Centralized Services support via I1 interfaceDefinition of Ml interface for Control Plane LCS IMS Media Plane SecuritySupport of Personal Area Networks and Enhancements to Personal Network ManagementEmergency Call Enhancements for IP& PS Based Calls – stage 3 IMS partSRVCC support for IMS Emergency Calls |
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|  | Rel-9 non-IMS Work Items and issues:IMS\_EMER\_GPRS\_EPS (non-IMS)SSACVAS4SMSPWS-St3eANDSFMUPSAPLCS\_EPS-CPSEHNB-CT1TEI9 (non-IMS issues)+ all other Rel-9 non-IMS issues |  | Peter - Main |  |  | All WIs completedSupport for IMS Emergency Calls over GPRS and EPSService Specific Access Control RequirementsValue-Added Services for Short Message ServicePublic Warning System (PWS)ANDSF while roamingMultiple PDN Connection to the Same APN for PMIP-based InterfacesMultiple PDN Connection to the Same APN for PMIP-based InterfacesControl Plane LCS in the EPCEHNB-issues for Rel-9 |
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|  | Release 10work items | Tdoc | **Not in scope of the meeting** | Source | Tdoc info  | Result & comments |
|  | Rel-10 IMS Work Items and issues:Work Items:IMS\_SC\_eIDTCCNLeAoCOMRIESEeSRVCCaSRVCCAT\_IMSIMSProtoc4+ all other Rel-10 IMS issues |  | Jörgen – Breakout |  |  | All WIs completedIMS Inter-UE Transfer enhancementsCall Completion on Not Logged-inAoC enhancementsOptimal Media RoutingIMS Emergency Session EnhancementsSRVCC enhancementsSRVCC in alerting phaseAT Commands for IMS-configurationIMS Stage-3 IETF Protocol Alignment |
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|  | Rel-10 non-IMS Work Items and issues:Work Items:ECSRA\_LAA-CNeMPS-CNNIMTCAT\_UICCSMOG-St3IFOM-CTLIPASIPTOMAPCON-St3TIGHTERMOCN-GERAN+ all other Rel-10 non-IMS issues |  | Peter – Main |  |  | All WIs completedEnabling Coder Selection and Rate Adaptation for UTRAN and E-UTRAN for Load Adaptive Applications, CN impactsEnhancements for Multimedia Priority ServiceNetwork Improvements for Machine Type CommunicationsAT Commands for USATS2b Mobility based on GTPIP Flow Mobility and WLAN offloadLocal IP AccessSelected IP Traffic OffloadMulti Access PDN ConnectivityTightened Link Level Performance Requirements for Single Antenna MSSupport of Multi-Operator Core Network by GERAN |
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|  | Release 11work items | Tdoc | **Not in scope of the meeting** | Source | Tdoc info  | Result & comments |
|  | Rel-11 IMS Work Items and issues:Work Items:USSIIOI\_IMS\_CHRLIIPXSVINE-CTMRBGINIRAVEL-CTIOCIODBGBA-ext-St3NWK-PL2IMS-CTMMTel\_T.38\_FAXvSRVCC-CTrSRVCC-CTATURIIMSProtoc5+ all other Rel-11 IMS issues |  | Jörgen – Breakout |  |  | All WIs completedUSSD Simulation ServiceIMS Interconnection Charging Enhancements for transit scenarios in multi operator environmentsCT1 aspects of RLIAdvanced Interconnection of ServicesSupp. 3G Voice Interworking w. Enterprise IP-PBXInclusion of Media Resource BrokerSupport of RFC 6140 in IMSRoaming Architecture for VoIMS w Local BreakoutIMS Overload ControlOperator Determined BarringGBA Extension for re-use of SIP Digest credentialsNetwork Provided Location Information for IMSEnhanced T.38 FAX supportSRVCC for 3G-CSSRVCC from UTRAN/GERAN to E-UTRAN/HSPAAT Commands for URI SupportIMS Stage-3 IETF Protocol Alignment |
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|  | Rel-11 non-IMS Work Items and issues:Work Items:RT\_VGCS\_RedSIMTCSIMTC-CSSIMTC-RAN\_OCSIMTC-ReachSIMTC-SigSIMTC-CN\_PowSIMTC-PS\_OnlyBBAIBBAI-BBIBBAI-BBIIBBAI-BBIIIFull\_MOCN-GERANRT\_ERGSMDIDASAMOG\_WLAN- CNeNR\_EPCPROTOC\_SMS\_SGsSAES2SAES2-CSFB+ all other Rel-11 non-IMS issues |  | Peter – Main |  |  | All WIs completedGCSMSC and GCR Redundancy for VGCS/VBSSystem 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 IIIFull Support of Multi-Operator Core Network Introduction of ER-GSM band for GSM-RData identification in ANDSFMobility based on GTP & PMIPv6 for WLAN access to EPC enhanced Nodes Restoration for EPCEnhancement of the Protocols for SMS over SGsSAE Protocol Development |
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|  | Release 12work items | Tdoc | **Not in scope of the meeting** | Source | Tdoc info  | Result & comments |
|  | Rel-12 IMS Work Items and issues:bSRVCCSMSMI-CTTURAN-CTIMS\_TELEPeDRVCCEMC\_PCIMS\_RegCon-CTBusTI-CTUP6665eIODBIMS\_WebRTCIMS\_Corp2NNI\_RSUSSD\_MSUSSI-NETRFC7044 FS\_NNI\_RS eMEDIASEC-CTIMS\_SSFDDCVO-CTSIS\_CTFS\_REVOLTE\_IMSNETLOC\_TWAN\_CTALTCPCSCF\_RESEVS\_codec-CTIMSProtoc6TEI12 (IMS related issues)+ all other Rel-12 IMS related issues |  | Jörgen – Breakout |  |  | All WIs completedSingle Radio Voice Call Continuity (SRVCC) before ringingSMS submit and delivery without MSISDN in IMSTunnelling of UE Services over Restrictive Access NetworksIMS-based Telepresence (Stage 3)Dual-Radio VCC (DRVCC) enhancementsIMS Emergency PSAP CallbackCT aspects of IMS registration controlCT Aspects of IMS Business Trunking for IP-PBX in Static Mode of OperationUpdating IMS to conform to RFC 6665Enhancements to IMS Operator Determined BarringWeb Real Time Communication (WebRTC) Access to IMSTransfer of ETSI business trunking specificationsIndication of NNI Routeing scenarios in SIP requestsUSSD method selection - stage-3Network Initiated USSD Simulation Services in IMSSI: Evaluation and introduction of RFC 7044 (History-Info)Indication of NNI Routeing scenarios in SIP requestsCT aspects of Extended IMS media plane securityIM-SSF Application Server Service Data DescriptionsCT Aspects of Coordination of Video OrientationCT Aspects of Signalling of Image SizeTechnical Aspects on Roaming End to End scenarios with VoLTE IMS and other networksCT aspects of Network Provided Location Information for IMS Trusted WLAN Access NetworkSupport of ALT-C attribute P-CSCF restoration enhancementsCT Impacts of Codec for Enhanced Voice ServicesIMS Stage-3 IETF Protocol Alignment |
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|  | Rel-12 non-IMS Work Items and issues: LIMONET-LIPAREP-WMDMTCe-UEPCOP-CTProSe-CTSINESCM\_LTE-CTUTRA\_LTE\_WLAN\_interw-CTOPIIS-CTeSaMOG\_St3WORM-CTWLAN\_NS-CTLIMONET-SIPTODia\_SGSN\_SMSGCSE\_LTE-CTMSRD\_VAMOS (GERAN)DMCG (GERAN)NewToN (GERAN)SAES3SAES3-CSFBSAES3-non3GPPTEI12 (non-IMS)+ all other Rel-12 non-IMS issues |  | Peter – Main |  |  | All WIs completedCore Network aspects of LIPA MobilityReporting Enhancements in Warning Message DeliveryUE Power Consumption Optimizations, stage 3CT aspects of Proximity-based ServicesSignalling Improvements for Network EfficiencyCT aspects of Smart Congestion Mitigation in E-UTRANCT aspects of WLAN/3GPP Radio InterworkingOperator Policies for IP Interface SelectionEnhanced S2a Mobility Over Trusted WLAN access to EPC for Stage 3Optimized Offloading to WLAN in 3GPP RAT mobilityCT aspects of WLAN network selection for 3GPP terminalsCore Network aspects of SIPTO at the local networkDiameter based interface between SGSN and SMS central functionsCT aspects of Group Communication System Enablers for LTECT1 introduction of MS capability support for MS supporting MSRD for VAMOSCT part: Downlink Multi Carrier GERANCT1 part of New Training Sequence Codes (TSC) for GERANgeneral Stage-3 SAE Protocol DevelopmentStage-3 SAE Protocol Development related to Circuit Switched Fall BackStage-3 SAE Protocol Development related to non-3GPP access |
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|  | Release 13work items | Tdoc | **Not in scope of the meeting** | Source | Tdoc info  | Result & comments |
|  | Rel-13 Mision Critical Work Items and issues:MCPTT-CTMPTT-Prof |  | Jörgen – Breakout on MC |  |  | All WIs completedMission 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-CTQOSE2EMTSI-CTDRuMS-CTRTCP-MUXIMSProtoc7PCSCF\_RES\_WLANINNB\_IWmSRVCCeWebRTCi\_CTROI-CT TEI13 (IMS related issues)+ all other Rel-13 IMS related issues |  | Jörgen – Breakout on IMS |  |  | All WIs completedVoice over E-UTRAN Paging Policy DifferentiationQoS End to End MTSI extensionsDouble Resource Reuse for Multiple Media SessionsSupport of RTP / RTCP transport multiplexing (signalling) in IMSIMS Stage-3 IETF Protocol Alignment for Rel-13P-CSCF Restoration Enhancements with WLANInterworking solution for Called IN number and original called IN number ISUP parametersMessage interworking during PS to CS SRVCCEnhancements to WEBRTC interoperability stage 3Video Enhancements by Region-Of-Interest information signalling |
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|  | Rel-13 non-IMS Work Items and issues: eProSe-Ext-CTRISEWSR\_EPS ePCSCF\_WLANSAES4SAES4-CSFBSAES4-non3GPPEVSoCS-CTMONTE-CTMEI\_WLANASI\_WLANNBIFOM-CTGROUPE-CTeDRX-CTSEW1-CTCIoT-CTNB\_IOTEC-GSM-IoTEASE\_EC\_GSMDECOR-CTTEI13 (non-IMS)+ all other Rel-13 non-IMS issues |  | Peter – Main |  |  | All WIs completedEnhancements to Proximity-based Services extensionsRetry restriction for Improving System EfficiencyWarning Status Report in EPSEnhanced P-CSCF discovery using signalling for access to EPC via WLANgeneral Stage-3 SAE Protocol DevelopmentStage-3 SAE Protocol Development related to Circuit Switched Fall BackStage-3 SAE Protocol Development related to non-3GPP accessEVS in 3G Circuit-Switched NetworksMonitoring Enhancements CT aspectsMobile Equipment signalling over the WLAN accessAuthentication Signalling Improvements for WLANIP Flow Mobility support for S2a and S2b InterfacesGroup based EnhancementsCT aspects of extended DRX cycle for power consumption optimizationCT aspects of Support of Emergency services over WLAN – phase 1CT1 aspects of WIs with IoT-functionality (WIs from C, RAN & SADedicated Core Networks CT aspects |
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|  | Release 14work items | Tdoc | **Not in scope of the meeting** | Source | Tdoc info  | Result & comments |
|  | Rel-14 Mision Critical Work Items and issues:MCImp-MCVIDEO-CTMCImp-MCDATA-CTMCImp-eMCPTT-CTMCPTTProtoc1 |  | Jörgen |  |  | All WIs completedMission Critical Video – CT aspectsMission Critical Data – CT aspectsEnhancements for Mission Critical Push To Talk – CT aspectsTechnical enhancements for Mission Critical Push To Talk over LTE protocol aspects |
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|  | Rel-14 IMS Work Items and issues:ISATMMCMH\_Enh-CTIOC\_UE\_confPWDIMS-CTIMSProtoc8V8-CTRobVoLTE-CTREAS\_EXTCH14-DCCII-CTSPECTRE-CTTEI14 (IMS related issues)+ all other Rel-14 IMS related issues |  | Jörgen – Breakout on IMS |  |  | All WIs completedIMS Signalling Activated TraceCT1 aspects of MTSI Extension on Multi-stream MultipartyImproved operator control using new UE configuration parametersPassword based service activation for IMS Multimedia Telephony serviceIMS Stage-3 IETF Protocol Alignment for Rel-14CT Aspects of S8 Home Routing Architecture for VoLTECT Aspects of Robust Call Setup for VoLTE subscriber in LTESIP Reason header extensionCT Aspects of Determination of Completeness of Charging Information in IMSUser Controlled Spoofed Call Treatment |
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|  | Rel-14 non-IMS Work Items and issues:EIEI-CTNonIP\_GPRS-CTEWE-CTSAES5 SAES5-CSFBSAES5-non3GPPV2X-CTeDECOR-CTAT\_CIoTSEW2-CTERP-CTAE\_enTV-CTCIoT-Ext-CTPS\_DATA\_OFF-CTTEI14 (non-IMS)+ all other Rel-14 non-IMS issues |  | Peter – Main |  |  | All WIs completedCT aspects of evolution to and interworking with eCall in IMSCT aspects for Non-IP for Cellular Internet of Things for 2G/3G-GPRSEIR check for WLAN access to EPCgeneral Stage-3 SAE Protocol DevelopmentStage-3 SAE Protocol Development related to Circuit Switched Fall BackStage-3 SAE Protocol Development related to non-3GPP accessCT aspects of V2X ServicesCT aspects of Enhancements of Dedicated Core NetworksAT Commands for CIoTCT aspects of Support of Emergency services over WLAN – phase 2Support of EAP Re-authentication Protocol for WLAN InterworkingCT aspects of system architecture enhancements for TV serviceCore network aspects of extended Architecture support for CIoTCT aspects of PS data off function |
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|  | Release 15work items | Tdoc | **Not in scope of the meeting** | Source | Tdoc info  | Result & comments |
|  | Rel-15 Mission Critical work items and issues:eMCVideo-CTeMCDATA-CTenhMCPTT-CTMCProtoc15MONASTERYMBMS\_MCservices |  | Jörgen |  |  | All work items completeEnhancements to Mission Critical Video – CT aspectsEnhancements for Mission Critical Data – CT aspectsEnhancements for Mission Critical Push-to-Talk – CT aspectsProtocol enhancements for Mission Critical Services sion Critical Push-to-Talk – CT aspectsMobile Communication System for RailwaysMBMS usage for mission critical communication services |
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|  | Rel-15 IMS work items and issues5GS\_Ph1-IMSo5GeCNAM-CTFS\_PC\_VBC (CT3)IMSProtoc9bSRVCC\_MTeSPECTREPC\_VBC (CT3)TEI15 (IMS) |  | Jörgen |  |  | All work items completeIMS impact due to 5GS IP-CANCT aspects of Enhanced Calling Name ServiceStudy on Policy and Charging for Volume Based ChargingIMS Stage-3 IETF Protocol Alignment for Rel-15SRVCC for terminating call in pre-alerting phaseEnhancements to Call spoofing functionality Policy and Charging for Volume Based Charging |
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|  | Rel-15 non-IMS/non-MC work items and issues5GS\_Ph1-CTEDCE5-CTProSe\_WLAN\_DD\_Stage3VoWLAN-CTPS\_DATA\_OFF2-CTLTE\_LIGHT\_CON-CTAT\_CIoT-ExtSAES6INOBEAR-CTTEI15 |  | Peter |  |  | All work items completeCT aspects on 5G System - Phase 1EPC enhancements to support 5G New Radio via Dual ConnectivityInclusion of WLAN direct discovery technologies as an alternative for ProSe direct discoveryComplementary Features for Voice services over WLANPS Data Off Phase 2CT aspects of signalling reduction to enable light connection for LTEAT Commands for CIoT-ExtStage-3 SAE Protocol Development for Rel-15Increasing the number of EPS bearersOther Rel-15 non-IMS topics |
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|  | Release 16work items | Tdoc | **Not in scope of the meeting** | Source | Tdoc info  | Result & comments |
|  | Rel-16 Mission Critical work items and issues MCCI\_CTMCProtoc16eMCData2MONASTERY2enh2MCPTT-CTTEI16 |  |  |  |  | All work items completeMission Critical Communication Interworking with Land Mobile Radio SystemsProtocol enhancements for Mission Critical Services for Rel-16Enhancements to Functional architecture and information flows for Mission Critical DataMobile Communication System for Railways Phase 2Enhancements for Mission Critical Push-to-Talk CT aspects |
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|  | Rel-16 IMS work items and issuesMuDIMSProtoc16E2E\_DelayVBCLTEISAT-MO-WITHDRAWeIMS5G\_SBAeIMS\_VideoTEI16 |  | Jörgen |  |  | All work items completeMulti-device and multi-identityIMS Stage-3 IETF Protocol Alignment for Rel-16Media Handling for RAN Delay Budget Reporting in MTSIVolume Based Charging Aspects for VoLTE CT(CT1 no longer impacted)Withdrawal of TS 24.323 from Rel-11, Rel-12, Rel-13CT aspects of SBA interactions between IMS and 5GCVideo enhancement of IMS CAT/CRS/announcement services |
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|  | Rel-16 non-IMS/non-MC work items and issuesePWSSINE\_5GSAES165GProtoc16ATSSSeNSVertical\_LAN5G\_CIoT5WWCPARLOS5G\_eLCSV2XAPPeV2XARCRACS5G\_SRVCCxBDTIAB-CT5GS\_OTAF5G\_URLLCSEALTEI16 |  | Peter |  |  | All work items completeEnhancements of Public Warning SystemSignalling Improvements for Network Efficiency in 5GS Stage-3 SAE protocol pevelopment for Rel-16Stage-3 5GS NAS protocol development related to non-3GPP accessAccess Traffic Steering, Switch and Splitting support in 5G systemCT aspects on enhancement of network slicing5GS enhanced support of vertical and LAN servicesCellular IoT support and evolution for the 5G SystemWireless and wireline convergence for the 5G system architectureSystem enhancements for Provision of Access to Restricted Local Operator Services by Unauthenticated UEsEnhancement to the 5GC Location ServicesCT aspects of V2XAPPCT aspects of eV2XARCoptimizations on UE radio capability signallingSingle radio voice continuity from 5GS to 3G5GS Transfer of Policies for Background DataSupport for integrated access and backhaul (IAB)5GS Enhanced support of OTA mechanism for UICC configuration parameter updateCT Aspects of 5G URLLCService Enabler Architecture Layer for VerticalsTEI16 |
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|  | Release 17work items | Tdoc | **Not in scope of the meeting** | Source | Tdoc info  | Result & comments |
|  | Tdocs on work items |  |  |  |  |  |
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 | Work Item Descriptions |  |  |  |  | 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-17Work item at 100% |
|  | SAES17 |  |  |  |  | General Stage-3 SAE protocol development |
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|  | SAES17-CSFB |  |  |  |  | Stage-3 SAE protocol development related to Circuit Switched Fall Back |
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|  | SAES17-non3GPP |  |  |  |  | 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 |  |  |  |  | General Stage-3 5GS NAS protocol development**Work item at 100%** |
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|  | 5GProtoc17-non3GPP |  |  |  |  | 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 modeWork item at 100% |
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|  | 5GSAT\_ARCH-CT |  | Peter –Main  |  |  | CT aspects of 5GC architecture for satellite networksWork item at 100% |
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|  | SMS\_SBI (CT4 lead) |  | Peter –Main  |  |  | Service-based support for SMS in 5GC Work item at 100% |
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|  | AKMA-CT (CT3 lead) |  | Peter –Main  |  |  | Authentication and key management for applications based on 3GPP credential in 5GWork item at 100% |
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|  | PAP\_CHAP (CT3 lead) |  | Peter –Main  |  |  | CT aspects on PAP/CHAP protocols usage in 5GSWork item at 100% |
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|  | RDSSI |  | Peter –Main  |  |  | Reliable Data Service Serialization Indication Work item at 100% |
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|  | FS\_MINT-CT  |  | Peter –Main  |  |  | Study on the CT aspects of Support for Minimization of service InterruptionStudy is 100% complete |
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|  | IIoT |  | Peter –Main  |  |  | CT aspects of enhanced support of Industrial IoTWork item at 100% |
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|  | eNPN |  | Peter –Main  |  |  | CT aspects of Enhanced support of Non-Public Networks Work item at 100% |
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|  | ATSSS\_Ph2  |  | Peter –Main  |  |  | CT aspects of Access Traffic Steering, Switch and Splitting support in the 5G system architecture; Phase 2Work item at 100% |
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|  | MUSIM |  | Peter –Main  |  |  | Enabling Multi-USIM devicesWork item at 100% |
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|  | eNS\_Ph2 |  | Peter –Main  |  |  | Enhancement of Network Slicing Phase 2Work item at 100% |
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|  | 5G\_eLCS\_ph2 |  | Peter –Main  |  |  | Enhancement to the 5GC LoCation Services-Phase 2Work item at 100% |
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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 TrackingWork item at 100% |
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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 servicesWork item at 100% |
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|  | eEDGE\_5GC |  | Lena–Breakout  |  |  | CT Aspects of 5G eEDGEWork item at 100% |
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|  | UASAPP |  | Lena–Breakout  |  |  | CT Aspects of Application Layer Support for Uncrewed Aerial Systems (UAS)Work item at 100% |
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|  | eV2XARC\_Ph2 |  | Lena–Breakout  |  |  | CT aspects of architecture enhancements for 3GPP support of advanced V2X services - Phase 2Work item at 100% |
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|  | eSEAL |  | Lena–Breakout  |  |  | Enhanced Service Enabler Architecture Layer for Verticals |
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|  | NBI17(CT3 lead) |  | Lena–Breakout  |  |  | Rel-17 Enhancements of 3GPP Northbound Interfaces and Application Layer APIsWork item at 100% |
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|  | 5MBS(CT4 lead) |  | Peter–Main  |  |  | CT aspects of the architectural enhancements for 5G multicast-broadcast services |
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|  | TEI17\_N3SLICE(CT4 lead) |  | Peter–Main  |  |  | CT aspects of Support of different slices over different Non 3GPP accessWork item at 100%  |
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|  | TEI17\_SE\_RPS |  | Peter - Main |  |  | System enhancement for redundant PDU sessionWork item at 100% |
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|  | ING\_5GS |  | Peter - Main |  |  | IMS voice service support and network usability guarantee for UE’s E-UTRA capability disabled scenario in SA 5GSWork item at 100% |
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|  | MINT  |  | Peter - Main |  |  | Support for Minimization of service InterruptionWork item at 100% |
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|  | 5GMARCH |  | Lena - Breakout |  |  | CT aspects for enabling MSGin5G ServiceWork item at 100% |
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|  | ARCH\_NR\_REDCAP |  | Peter - Main |  |  | NR Reduced Capability DevicesWork item at 100% |
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|  | IoT\_SAT\_ARCH\_EPS |  | Peter - Main |  |  | IoT NTN support for EPS |
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|  | NSWO\_5G |  | Peter - Main |  |  | Non-Seamless WLAN offload Authentication in 5GSWork item at 100% |
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|  | AKMA\_TLS |  | Peter - Main |  |  | CT aspects of AKMA TLS protocol profilesWork item at 100% |
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|  | Other Rel-17 issues (TEI17) |  | Peter - Main |  |  | Other Rel-17 topicsWork item at 100% |
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 | NRslice |  | Peter - Main |  |  | CT aspects of enhancement of RAN Slicing for NRWork item at 100% |
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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-17Work item at 100% |
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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 enhancementsWork item at 100%  |
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|  | MPS2 (CT3 lead) |  | Jörgen – Breakout  |  |  | Stage 3 of Multimedia Priority Service (MPS) Phase 2Work item at 100% |
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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 interconnectionShifted from Rel-16 |
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|  | eMCCI\_CT |  | Jörgen – Breakout  |  |  | CT aspects of Enhanced Mission Critical Communication Interworking with Land Mobile Radio SystemsWork item at 100% |
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|  | enh3MCPTT-CT |  | Jörgen – Breakout  |  |  | CT aspects of Enhanced Mission Critical Push-to-talk architecture phase 3Work item at 100%  |
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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 24.980No CRs needed, 100% |
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|  | TEI17\_SAPES |  | Jörgen – Breakout  |  |  | CT aspects on support for Signed Attestation for Priority and Emergency Sessions Work item at 100% |
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|  | MCOver5GS |  | Jörgen – Breakout  |  |  | CT aspects of Mission Critical Services over 5GS |
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|  | MuDTran |  | Jörgen – Breakout  |  |  | Multi-device enhancements for device transfers |
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|  | eCryptPr |  | Jörgen – Breakout  |  |  | Enhancements of 3GPP profiles for cryptographic algorithms and security protocols |
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|  | TEI17\_IMSGID |  | Jörgen – Breakout  |  |  | IMS Optimization for HSS Group ID in an SBA environmentWork item at 100% |
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|  | SPECTRE\_Ph3 |  | Jörgen – Breakout  |  |  | CT aspects for modifying PASSporT signing and verificationWork item at 100% |
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|  | Other Rel-17 IMS & MC issues (TEI17) |  | Jörgen – Breakout |  |  | Other Rel-17 IMS and MC topics |
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|  | Release 18work items | Tdoc | Title | Source | Tdoc info  | Result & comments |
|  | Tdocs on Work Items |  |  |  |  | Papers related to Rel-18 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-18 Work Items |
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|  | Release 18 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 |
|  | SAES18 WIs |  | Peter - Main |  |  | Stage-3 SAE protocol development for Rel-18 |
|  | SAES18 |  |  |  |  | General Stage-3 SAE protocol development |
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|  | SAES18-CSFB |  |  |  |  | Stage-3 SAE protocol development related to Circuit Switched Fall Back |
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|  | SAES18-non3GPP |  |  |  |  | Stage-3 SAE protocol development related to non-3GPP access |
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|  | 5GProtoc18 Wis |  | Peter - Main |  |  | Stage-3 5GS NAS protocol development for Rel-18 |
|  | 5GProtoc18 |  |  |  |  | General Stage-3 5GS NAS protocol development |
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|  | 5GProtoc18-non3GPP |  |  |  |  | Stage-3 5GS NAS protocol development related to non-3GPP access |
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|  | NBI18(CT3 lead) |  | Lena–Breakout  |  |  | Rel-18 Enhancements of 3GPP Northbound Interfaces and Application Layer APIs |
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|  | SENSE |  | Peter - Main |  |  | CT aspects of Signal level Enhanced Network SElection |
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 | eNPN\_Ph2 |  | Peter - Main |  |  | CT aspects of Enhanced support of Non-Public Networks Phase 2 |
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|  | SUECR |  | Peter - Main |  |  | CT aspect of Seamless UE context recovery |
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|  | 5WWC\_Ph2 |  | Peter - Main |  |  | Support for 5WWC, Phase 2 |
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|  | TEI18\_SDNAEPC |  | Peter - Main |  |  | Secondary DN authentication and authorization in EPC IWK cases |
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|  | NR\_REDCAP\_Ph2 (CT4) |  | Peter - Main |  |  | 5GS support of NR RedCap UE with long eDRX for RRC\_INACTIVE State |
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|  | TEI18\_IPv6PD (CT3) |  | Peter - Main |  |  | CT aspects of General Support of IPv6 Prefix Delegation in 5GS |
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|  | TRS\_URLLC (CT3) |  | Peter - Main |  |  | on 5G Timing Resiliency and TSC & URLLC enhancements |
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|  | DetNet (CT3) |  | Peter - Main |  |  | Extensions to the TSC Framework to support DetNet |
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|  | eUEPO (CT3) |  | Peter - Main |  |  | CT aspects of enhancement of 5G UE Policy |
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|  | UASAPP\_Ph2 |  | Lena - Services |  |  | CT Aspects of Application Layer Support for Uncrewed Aerial Systems (UAS), Phase 2 |
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|  | V2XAPP\_Ph3 |  | Lena - Services |  |  | CT aspects of application layer support for V2X services; Phase 3 |
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|  | SEALDD |  | Lena - Services |  |  | CT aspects of SEAL data delivery enabler for vertical applications |
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|  | SEAL\_Ph3 |  | Lena - Services |  |  | Enhanced Service Enabler Architecture Layer for Verticals Phase 3 |
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|  | 5G\_ProSe\_Ph2 |  | Lena - Services |  |  | CT aspects of proximity based services in 5GS Phase 2 |
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|  | 5G\_eLCS\_Ph3 (CT4) |  | Lena - Services |  |  | CT aspects of enhancement to the 5GC location services - phase 3 |
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|  | EDGEAPP\_Ph2  |  | Lena - Services |  |  | CT Aspects of Edge Computing Phase 2No IMPACT on CT1 |
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|  | UAS\_Ph2 |  | Lena - Services |  |  | CT Aspect of Further Architecture Enhancement for UAV and UAM |
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|  | VMR |  | Lena - Services |  |  | CT aspects of Architecture Enhancements for Vehicle Mounted Relays |
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|  | Ranging\_SL |  | Lena - Services |  |  | CT aspects of Ranging based services and sidelink positioning |
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|  | eNS\_Ph3 |  | Peter - main |  |  | Stage 3 of Network Slicing Phase 3 |
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|  | 5GFLS |  | Lena - Services |  |  | CT aspects of 5G-enabled fused location service capability exposure |
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|  | PINAPP |  | Lena - Services |  |  | CT aspects of Application layer support for Personal IoT Network |
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|  | PIN |  | Peter - main |  |  | Personal IoT Network |
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|  | 5GMARCH\_Ph2 |  | Lena - services |  |  | CT aspects for enabling MSGin5G Service phase 2 |
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|  | ADAES |  | Lena -services |  |  | Application Data Analytics Enablement Service |
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|  | ATSSS\_Ph3 |  | Peter - main |  |  | Access Traffic Steering, Switching and Splitting support in 5G system – Phase 3 |
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|  | UEConfig5MBS |  | Peter - main |  |  | UE pre-configuration for 5MBS |
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|  | 5GSAT\_Ph2 |  | Peter - main |  |  | 5GC/EPC enhancement for satellite access Phase 2 |
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|  | 5MBS\_Ph2(CT4 lead) |  | Peter - main |  |  | CT aspects of Architectural enhancements for 5G multicast-broadcast services Phase 2 |
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|  | GMEC(CT3 lead) |  | Peter - main |  |  | Rel-18 Generic Group Management, Exposure and Communication Enhancements |
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|  | Other Rel-18 issues (TEI18) |  | Peter - Main |  |  | Other Rel-18 topics |
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|  | WIs for IMS and MC |  | Jörgen – Breakout  |  |  | Work items on IMS and Mission Critical  |
|  | MCProtoc18 |  | Jörgen – Breakout |  |  | Protocol enhancements for Mission Critical Services for Rel-18 |
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|  | MPSSupServ |  | Jörgen – Breakout |  |  | MPS for Supplementary Services |
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|  | IMSProtoc18 |  | Jörgen – Breakout |  |  | IMS Stage-3 IETF Protocol Alignmen |
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|  | MCOver5GProSe |  | Jörgen – Breakout |  |  | CT aspects of Mission Critical Services over 5GProS |
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|  | MCOver5MBS |  | Jörgen – Breakout |  |  | CT aspects of Mission Critical Services over 5MBS |
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|  | eMCSMI\_IRail |  | Jörgen – Breakout |  |  | Mission critical system migration and interconnection enhancements |
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|  | MCGWUE |  | Jörgen – Breakout |  |  | CT aspects of Gateway UE function for Mission Critical Communication |
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|  | NG\_RTC |  | Jörgen – Breakout |  |  | Next Generation Real time Communication services |
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|  | Other Rel-18 IMS & MC issues (TEI18) |  | Jörgen – Breakout |  |  | Other Rel-18 IMS and MC topics |
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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 14:00** UTC  |  | 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 |
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