



Release14 High-level Features and Studies

October 16, 2016

& the initial Release 15



Release 14 Features

Mission Critical

| UID | Name | Acronym | Level | WG | % Complete | T-Doc |
|-------|---|---------------|-------|-------------------|------------|-----------|
| 70002 | Mission Critical Improvements | MCImp | 1 | S1,S6,C1,C3,C4,C6 | 73% | SP-150821 |
| 70002 | Mission Critical Push to Talk over LTE Realignment | MCImp-MCPTTR | 2 | S1 | 100% | SP-150821 |
| 72005 | Enhancements for Mission Critical Push To Talk | MCImp-eMCPTT | 2 | S6 | 35% | SP-160490 |
| 70002 | Mission Critical Services Common Requirements | MCImp-MCCReqe | 2 | S1 | 100% | SP-150822 |
| 72005 | Common functional architecture to support mission critical services | MCImp-MC_ARCH | 2 | S6 | 40% | SP-160489 |
| 72005 | Mission Critical Video over LTE | MCImp-MCVideo | 2 | S1,S6 | 77% | SP-150849 |
| 67000 | Study on Mission Critical Video over LTE | FS_MCVideo | 3 | S1 | 100% | SP-150048 |
| 70003 | Stage 1 of MCVideo | MCImp-MCVideo | 3 | S1 | 100% | SP-150848 |
| 72005 | Stage 2 of MCVideo | MCImp-MCVideo | 3 | S6 | 25% | SP-160491 |
| 72005 | Mission Critical Data over LTE | MCImp-MCData | 2 | S1,S6 | 73% | SP-150850 |
| 67000 | Study on Mission Critical Data Communications | FS_MCDATA | 3 | S1 | 100% | SP-150850 |
| 70003 | Stage 1 of MCDATA | MCImp-MCDATA | 3 | S1 | 100% | SP-150850 |
| 72005 | Stage 2 of MCDATA | MCImp-MCDATA | 3 | S6 | 10% | SP-160492 |
| 72008 | Study on Mission Critical security enhancements | FS_MCSec | 1 | S3 | 0% | SP-160526 |
| 72005 | Study on Mission Critical system migration and interconnect between MCPTT systems | FS_MCSMI | 1 | S6 | 40% | SP-160526 |
| 72050 | LTE and non-LTE Systems | FS_MCCI | 1 | S6 | 20% | SP-160527 |
| 73008 | Protocol enhancements for MCPTT over LTE | MCPTTProtoc1 | 1 | ct | 1% | SP-160518 |
| 73004 | Security of the Mission Critical Service | MCSec | 1 | S3 | 0% | SP-160566 |

V2X

| UID | Name | Acronym | Level | WG | % Complete | T-Doc |
|--------|--|----------------------|-------|----|------------|-----------|
| 72003 | LTE support for V2X services | V2XLTE | 1 | S1 | 44% | SP-150573 |
| 69003 | Stage 1 for LTE support for V2X services | V2XLTE | 2 | S1 | 100% | SP-150573 |
| 72001 | Architecture enhancements for LTE support of V2X services | V2XARC | 2 | S2 | 85% | SP-160317 |
| 72009 | RAN aspects of LTE-based V2X Services | LTE_V2X | 2 | R1 | 6% | RP-161298 |
| 73026 | CT aspects of V2X Services | V2X-CT | 2 | ct | 0% | CP-160584 |
| 70001 | Study on LTE support for V2X services | FS_V2XLTE | 2 | S1 | 87% | SP-150051 |
| 67000 | Study on Stage 1 of LTE support for V2X services | FS_V2XLTE | 3 | S1 | 100% | SP-150051 |
| 70050 | Study on Stage 2 of LTE support for V2X services | FS_V2XARC | 3 | S2 | 100% | SP-150852 |
| 70045 | Study on security aspects for LTE support of V2X services | FS_V2XLTE | 3 | S3 | 65% | SP-150852 |
| 68005 | RAN1 Study on LTE-based V2X Services | FS_LTE_V2X | 3 | R1 | 100% | RP-161263 |
| 70061 | Support for V2V services based on LTE sidelink | LTE_SL_V2V | 1 | R1 | 25% | SP-152293 |
| 70016 | Core part: Support for V2V services based on LTE sidelink | LTE_SL_V2V-Core | 2 | R1 | 100% | RP-161603 |
| 70026 | Perf. part: Support for V2V services based on LTE sidelink | LTE_SL_V2V-Perf | 2 | R4 | 0% | RP-161603 |
| 730073 | UE Conformance Test Aspects - Support for V2V services based on LTE sidelink | LTE_SL_V2V-UEConTest | 2 | R5 | 0% | RP-161716 |

CIoT

| UID | Name | Acronym | Level | WG | % Complete | T-Doc |
|--------|---|-----------------------|-------|----------|------------|-----------|
| 71002 | Non-IP for Cellular Internet of Things (CiOT) for 2G/3G-GPRS(EC-EGRPS) | NonIP_GPRS | 1 | S2,C1,C4 | 80% | SP-160196 |
| 720092 | Further enhanced MTC for LTE | LTE_feMTC | 1 | R1 | 4% | RP-161321 |
| 720093 | Enhancements of NB-IoT | NB_IoTenh | 1 | R1 | 5% | RP-161324 |
| 730021 | AT Commands for CiOT | AT_CiOT | 1 | C1 | 10% | CP-160477 |
| 730059 | Extended architecture support for Cellular Internet of Things | CiOT_Ext | 1 | S2 | 0% | SP-160732 |
| 730077 | Radio Interface Enhancements for Extended Coverage GSM for support of Cellular Internet of Things | CiOT_EC_GSM_radio_enh | 1 | R6 | 0% | RP-161806 |
| 730050 | Battery Efficient Security for very low Throughput MTC Devices | BEST_MTC_Sec | 1 | S3 | 0% | SP-160569 |
| 730083 | New band support for Rel-14 Narrowband Internet of Things (NB-IoT) | NB_IOT_R14_bands | 1 | R4 | 0% | RP-161890 |
| 720006 | Enhancements of Dedicated Core Networks selection mechanism | eDecor | 1 | S2 | 51% | SP-160310 |
| 720081 | Study on extended architecture support for Cellular Internet of Things | FS_CiOT_Ext | 1 | S2 | 70% | SP-160505 |
| 730055 | Study on Management aspects of selected IoT-related features | FS_OAM_IOT | 1 | S5 | 0% | SP-160611 |

WLAN

| UID | Name | Acronym | Level | WG | % Complete | T-Doc |
|--------|---|---------------|-------|----|------------|-----------|
| 720031 | EIR check for WLAN access to EPC | EWE | 1 | S2 | 77% | SP-150624 |
| 730048 | Support of EAP Re-authentication Protocol for WLAN Interworking | ERP | 1 | S3 | 0% | SP-160568 |
| 720019 | Phase 2 of the Support of Emergency services over WLAN | SEW2 | 1 | S2 | 46% | SP-160307 |
| 72076 | T-ADS supporting WLAN Access | TADS_WLAN | 1 | S2 | 100% | SP-160488 |
| 71075 | Enhanced LTE-WLAN Aggregation (LWA) | LTE_WLAN_aggr | 1 | R2 | 45% | RP-160600 |
| 720082 | Study on Complementary Features for Voice services over WLAN | FS_WoWLAN | 1 | S2 | 10% | SP-160506 |

Other Rel-14 Features

| UID | Name | Acronym | Level | WG | % Complete | T-Doc |
|--------|--|---------------|-------|---------------|------------|-----------|
| 70020 | Evolution to and Interworking with eCall in IMS | EIEI | 1 | S1,S2,C1,C6 | 79% | SP-150275 |
| 70032 | Enhancement of TV service | EntTV | 1 | S1 | 93% | SP-150756 |
| 70054 | MBMS Transport Protocol and APIs | TRAPI | 1 | S4 | 60% | SP-150851 |
| 67003 | Multimedia Priority Service Modifications | MPS_Mods | 1 | S1 | 100% | SP-150403 |
| 73104 | Lawful Interception Rel-14 | LTi4 | 1 | S3L1 | 0% | SP-160375 |
| 730031 | SIP Reassembly header extension | REAS_EXT | 1 | ct | 0% | CP-160481 |
| 690034 | Enhancements to User Location Reporting Support | eULRS | 1 | S1 | 100% | SP-150540 |
| 73002 | Diameter Load Control Mechanism | DLoMe | 1 | ct | 61% | CP-160412 |
| 720074 | Parameter based service activation for IMS Multimedia Telephony service | PWDIMS | 1 | S1 | 1% | SP-150041 |
| 720060 | Enhancements to Multi-stream Multiparty Conferencing Media Handling | MMCMM_Enh | 1 | S4 | 7% | SP-160272 |
| 71002 | Deleted - CT aspects of (or "Enhancements of") MTSI Extension | MMCMM-CT | 1 | ct | 100% | CP-160117 |
| 630007 | IMS Signalling Activated Trace | ISAT | 1 | C1,C3,C4,IETF | 28% | CP-150091 |
| 720088 | Control and User Plane Separation of EPC nodes | CUPS | 1 | S2 | 48% | SP-160316 |
| 690048 | Study on OAM14 Rel-14 Operations, Administration, Maintenance and Provisioning (OAM&P) | OAM14 | 1 | S5 | 63% | SP-150848 |
| 680050 | Development of super-wideband and fullband P.835 | DEUSAPS | 1 | S4 | 70% | SP-150215 |
| 670004 | Enhancing Location Capabilities for Indoor and Outdoor Emergency Communications | ELIOT | 1 | S1 | 100% | SP-150044 |
| 670005 | Enhancements to Domain Selection between VoLTE and CDMA CS | eDSVCC | 1 | S1 | 100% | SP-150045 |
| 680002 | Control of Applications when Third party Servers encounter difficulties | CATS | 1 | S1 | 100% | SP-150273 |
| 720080 | PS Data Off Services | PS_Data_Off | 1 | S1 | 83% | SP-150823 |
| 710003 | SCC AS Restoration | SCCAS_RES | 1 | C4 | 100% | CP-160118 |
| 710004 | Paging Policy Enhancements and Procedure | PPPEO_LT | 1 | S1 | 100% | SP-160113 |
| 720077 | Enhancement to Flexible Mobile Service Steering | OFMSS | 1 | S1 | 99% | SP-160115 |
| 710006 | Unlicensed Spectrum Offloading System | USOS | 1 | S1 | 100% | SP-160117 |
| 71010 | Media Handling Extensions of IMS-based Telepresence | IMSTELEP_EXT | 1 | S4 | 30% | SP-160081 |
| 710011 | Improved Streaming QoS Reporting in 3GPP | IQoE | 1 | S4 | 55% | SP-160082 |
| 710085 | New GPRS algorithms for EASE | EASE_ALGO_SA3 | 1 | S3 | 60% | SP-160203 |
| 710048 | SD Home Routing Architecture for VOLTE | V8 | 1 | S2,S3 | 74% | SP-160315 |
| 720020 | Improvements of awareness of user location change | AULC | 1 | S2 | 51% | SP-160308 |
| 720022 | Service Domain Centralization | SeDoC | 1 | S2 | 73% | SP-160675 |
| 720014 | Sponsored data connectivity improvements | SDCI | 1 | S2 | 0% | SP-160309 |
| 710017 | Stage-3 SAE Protocol Development - Phase 5 | SAE5S | 1 | C1 | 20% | CP-160052 |
| 720012 | Group based enhancements in the network capability exposure functions | GENCEF | 1 | S2 | 97% | SP-160311 |
| 720084 | Robust Call Setup for VoLTE subscriber in LTE | RobVoLTE | 1 | S2 | 29 | |