**Doc. FM(18)113 - Annex 4**

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| **WG FM** |  |
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| **91st Meeting**  **Pratteln (near Basel) / Switzerland, 14 – 18 May 2018** |  |

**List of Abbreviations**

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| --- | --- |
| AC | Administration Consultation |
| ACEA | European Automobile Manufacturers’ Association |
| ACM | Adaptive Coding And Modulation |
| ADCO | Group On Administrative Cooperation |
| ADS | Automatic Dependant Surveillance (Aeronautical) |
| AES | Aircraft Earth Stations |
| AGA | Air-Ground-Air |
| AIS | Automatic Identification System |
| ALD | Assistive Listening Devices |
| ALS | Assistive Listening Systems |
| AM | Amplitude Modulation |
| AP | Action point |
| APC | Automatic Power Control |
| APWPT | Association of Professional Wireless Production Technologies |
| AR | Augmented Reality |
| ARPU | Average Revenue per User |
| AS | Aircraft Stations |
| ASDE | Airport Surface Detection Equipment |
| ASECAP | European Association of Operators of Toll Road Infrastructures |
| ATG | Air-to-Ground |
| BB | Broadband |
| BBDR | Broad Band Disaster Relief |
| BEM | Block Edge Mask |
| BFWA | Broadband Fixed Wireless Access |
| BRAN | Broadband Radio Access Network (ETSI) |
| BS | Base Station |
| C2C | Car-to-car |
| CAA | Civil Aviation Authority |
| CB | Citizens' band |
| CBTC | Communication Based Train Control |
| CCS | Control command and signalling |
| CDN | Content delivery network |
| CENELEC | European Committee for Electrotechnical Standardization |
| CEPT | “Conférence Européenne des Administrations des Postes et des Télécommunications” (European Conference of Postal and Telecommunications Administrations) |
| CG | Correspondence Group |
| CGC | Complementary Ground Component |
| CID | Carrier-Identification |
| CIS | Cochlear Implant Systems |
| C-ITS | Cooperative Intelligent Transport Systems |
| CLEPA | European Association of Automotive Suppliers |
| CNPC | Control and non-payload communications |
| CPG | Conference Preparatory Group (of the ECC) |
| CRAF | Committee on Radio Astronomy Frequencies |
| CRS | Cognitive Radio Systems |
| CSS | Chirp spread spectrum |
| CT | Cordless telephone |
| CTCSS | Continuous Tone Controlled Signalling System |
| DAA | Detect-And-Avoid |
| DAB | Digital Audio Broadcasting |
| DA2GC | Direct-Air-to-Ground Communications |
| DCA | Dynamic Channel Assignment |
| DCSS | Digitally Coded Squelch Signalling |
| DEC | Decision |
| DECT | Digital Enhanced Cordless Telecommunications |
| DECT ULE | DECT Ultra Low Energy |
| DFS | Dynamic Frequency Selection |
| DG | Drafting group |
| D-GPS | Differential Global Positioning System |
| DME | Distance Measuring Equipment |
| DPMR | Digital Private Mobile Radio |
| DRM | Digital Radio Mondiale |
| DSC | Digital Selective Calling |
| DSM | Digital Single Market |
| DSRC | Dedicated Short-Range Communications |
| DTH | Direct-To-Home (satellite TV) |
| DTT | Digital Terrestrial Television |
| DVB-T | Digital Video Broadcasting – Terrestrial |
| EAN | European Aviation Network |
| EASA | European Aviation Safety Agency |
| EBU | European Broadcasting Union |
| EC | European Commission |
| ECA | European Common Allocations |
| ECC | Electronic Communications Committee |
| ECO | European Communications Office |
| ECS | Electronic Communication Services |
| ECTRA | European Committee for Telecommunications Regulatory Affairs |
| ECUs | Electronic Control Units |
| EESS | Earth exploration-satellite service |
| EFIS | EСO Frequency Information System |
| EFIS/MG | EСO Frequency Information System / Maintenance Group |
| E-GSM-R | Extension band for GSM-R |
| EIRP | Equivalent isotropically radiated power |
| ELL | Entry Level Amateur License |
| ELT | Emergency locator transmitter |
| eMBB | Enhanced Mobile Broadband |
| EMC | Electromagnetic compatibility |
| EMF | Electromagnetic Field |
| EN | European Standard (ETSI) |
| ENAP | European Standard (EN) Approval Procedure (ETSI) |
| ENG/OB | Electronic News Gathering and Outside Broadcasting |
| EP | European Parliament |
| EPC | Evolved packet core |
| EPIRBs | Emergency Position Indicating Radio Beacons |
| EPP | Event Processing Plug-in (SEAMCAT) |
| ERA | European Railways Agency |
| ERC | European Radiocommunications Committee |
| ERM | Electromagnetic compatibility and Radio spectrum Matters (ETSI Technical Committee) |
| ERP | Effective radiated power |
| ERTMS | European Rail Traffic Management System |
| ESA | European Space Agency |
| ESE | Extraneous Signal Environment |
| ESIM | Earth stations in motion |
| ESOA | EMEA Satellite Operators Association |
| ESOMPs | [Earth Stations on Mobile Platforms](http://www.google.ru/url?sa=t&rct=j&q=&esrc=s&frm=1&source=web&cd=3&cad=rja&ved=0CEMQFjAC&url=http%3A%2F%2Fstakeholders.ofcom.org.uk%2Fbinaries%2Fconsultations%2Fearth-stations-mobile-platforms%2Fsummary%2Fearth-stations.pdf&ei=vNxTUuboIOql4gSc_YDIDQ&usg=AFQjCNGPMoyMtBk83jivZbW6C9JDIVdp8Q&sig2=1Da_6tGOtlhOnJugiLS9Nw&bvm=bv.53537100,d.bGE) |
| ESV | Earth Stations on-board Vessels |
| ETSI | European Telecommunications Standards Institute |
| EU | European Union |
| EURAO | European Radio Amateurs’ Organization |
| E-UTRA | *evolved UMTS Terrestrial Radio Access* |
| FCC | [Federal Communications Commission](http://www.fcc.gov/) |
| FDD | Frequency Division Duplex |
| FFM | Far Field Monitors |
| FG | Forum Group |
| FH | Frequency Hopping |
| FM | Frequency Management (Working Group) |
| FM | Frequency Modulation |
| FM PT | Frequency Management Project Team |
| FOTA | Firmware over the air |
| FRMCS | Future Railway Mobile Communication System |
| FS | Fixed Service |
| FSS | Fixed Satellite Service |
| GA | General Assembly (of ETSI) |
| GBAS | Ground Based Augmentation System |
| GBSAR | Ground Based Synthetic Aperture Radar |
| GLONASS | Globalnaya Navigatsionnaya Sputnikovaya Sistema |
| GNSS | Global Navigation Satellite System |
| GNSS-Pseudolites | Global Navigation Satellite System Pseudolites |
| GOC | General Operator’s Certificate |
| GPR | Ground Probing Radar |
| GPS | Global Positioning System |
| GS | Ground Stations |
| GSA | European Global Satellite Systems Agency |
| GSM | Global System for Mobile Telecommunications |
| GSMA | GSM Association |
| GSM-R | Global System for Mobile Telecommunications for railway applications |
| GSO | Geostationary Orbit |
| HAPS | High Altitude Platform Station |
| HAREC | Harmonized Amateur Radio Examination Certificate |
| HCM | Harmonised Calculation Method |
| HD | High Definition |
| HD-GBSAR | High-Definition Ground Based Synthetic Aperture Radars |
| HEN | European harmonised standard |
| HEST | High e.i.r.p. Satellite Terminal |
| HF | High Frequency |
| HIRF | High Intensity Radiated Field protection |
| HTS | High Throughput Satellite |
| IARU | International Amateur Radio Union |
| ICAO | International Civil Aviation Organization |
| IFF | Identification Friend or Foe |
| ILS | Instrument Landing System |
| IMO | International Maritime Organization |
| IMT | International Mobile Telecommunications (includes IMT-2000 and IMT-Advanced) |
| IMT-2000 | International Mobile Telecommunications-2000 |
| IMT-Advanced | Systems beyond IMT-2000 |
| IoT | Internet of Things |
| IPTV | Internet Protocol Television |
| ISM | Industrial, Scientific and Medical Applications |
| ITS | Intelligent Transport Systems |
| ITU | International Telecommunication Union |
| ITU-R | International Telecommunication Union - Radiocommunication Sector |
| JRC | Joint Research Centre (of the European Commission) |
| JTIDS/MIDS | Joint Tactical Information Distribution System / Multifunctional Information Distribution System |
| KPIs | Key Performance Indicators |
| LAA | Licensed Assisted Access |
| LAES | Location Tracking Applications for Emergency Services |
| LAN | Local Area Network |
| LBT | Listen-Before-Talk |
| LDACS | L-band Digital Aeronautical Communications System |
| LEO | Low Earth Orbit |
| LEST | Low e.i.r.p. Satellite Terminal |
| LEWP | Law Enforcement Working Party |
| LORA | Long Range (Wide Area Network) |
| LoS | Line-of-Sight |
| LPD | Low Power Device |
| LPR | Level Probing Radar |
| LP-CIS | Low Power – Cochlear Implant Systems |
| LP-WAN | Low Power Wide Area Network |
| LPWAN-CSS | Low Power Wide Area Networks - Chirp Spread Spectrum |
| LRTC | Least restrictive technical conditions |
| LS | Liaison statement |
| LSA | Licensed Shared Access |
| LTE | Long Term Evolution |
| LTE-U | LTE-Unlicensed |
| LT2 | Location Tracking Type 2 |
| M2M | Machine-to-Machine |
| MA02revCO07 | Maastricht, 2002, Special Arrangement, as revised in Constanţa, 2007 |
| MAR/FG | Maritime Forum Group (of WG FM) |
| MBANS | Medical Body Area Networks Systems |
| MBR | Maritime Broadband Radio Links |
| MCA | Mobile Communications on Board Aircraft |
| MCN | Mobile Core Network |
| MCV | Mobile Communications on Board Vessels |
| MEO | Medium Earth Orbit |
| MFCN | Mobile/Fixed communications networks |
| MG | Maintenance Group |
| MGWS | Multiple Gigabit Wireless Systems |
| MIDS | Multifunctional Information Distribution System |
| MIMO | Multiple Input Multiple Output |
| MLS | Microwave Landing System |
| mMTC | Massive Machine Type Communications |
| mmW | Millimetre Wave |
| MNO | Mobile Network Operator |
| MPR | Mobile Phone Repeater |
| MSAT | Metamaterials Surface Antenna Technology |
| MSG | Mobile Standard Group (ETSI) |
| MSI | Maritime Safety Information |
| MSS | Mobile Satellite Services |
| MWS | Multimedia Wireless System |
| M3N | Metropolitan Mesh Machine Networks |
| NATO | North Atlantic Treaty Organisation |
| NAVTEX | Narrow-band direct-printing telegraphy system for transmission of navigational and meteorological warnings and urgent information to ships |
| NBN | Narrowband Networked |
| NCS | Non-Cooperative Surveillance Radar |
| NFV | Network Function Virtualisation |
| NGSO | Non-Geostationary Orbit |
| NMR | Nuclear Magnetic Resonance |
| NP2M | Narrowband Point to Multipoint system |
| NSO | National Standardisation Organisation |
| NTFAs | National tables of frequency allocations and utilisations |
| OAS/CITEL | Organization of American States – Inter-American Telecommunication Commission |
| OBU | On Board Unit |
| OEM | Original Equipment Manufacturer |
| OJEU | Official Journal of the European Union |
| OoB | Out of Band |
| PAMR | Public Access Mobile Radio |
| PDNR | Preliminary Draft New Recommendation (ITU) |
| PC | Public consultation |
| PCI | Physical Cell Identifier |
| PFD | Power flux-density |
| PLB | Personal Locator Beacon |
| P-MP | Point-to-Multipoint |
| PMR | Professional (Private) Mobile Radio |
| PMSE | Programme Making and Special Events |
| POCSAG | Post Office Code Standards Advisory Group |
| POI | Point of Interest |
| PPDR | Public Protection and Disaster Relief |
| PRS | Galileo Public Regulated Service |
| PSCE | Public Safety Communication Europe |
| PSR | Primary Surveillance Radar |
| PSRG | Public Safety Radio Group |
| PSS | Public Safety and Security |
| PT | Project Team |
| RA/FG | Radio Amateur Forum Group (of WG FM) |
| RAS | Radio Astronomy Service |
| RASP | RAS Protection Mode |
| RCEG | Radio Communication Expert Group |
| RED | Radio Equipment Directive |
| RED CA | Radio Equipment Directive Compliance Association |
| RFI | Radio Frequency Interference |
| RFID | Radio Frequency Identification |
| RIS | Radio Interface Specification |
| RISC | Railway Interoperability and Safety Committee |
| RLAN | Radio Local Area Network |
| RMR | Railway Mobile Radio system |
| ROC | Restricted Operator’s Certificate |
| RoP | Rules of Procedure |
| RoU | Rights of Use |
| RPAS | Remotely Piloted Aircraft Systems |
| RR | ITU Radio Regulations |
| RRS | Reconfigurable Radio Systems |
| RSC | Radio Spectrum Committee |
| RSPG | Radio Spectrum Policy Group |
| RSPP | Radio Spectrum Policy Programme |
| RSTT | Railway Radiocommunications System between Train and Trackside |
| RSU | Road Side Unit |
| R&TTE | Radio & Telecommunications Terminal Equipment |
| RTE | Radar Target Enhancer |
| SAB | Service Ancillary to Broadcasting |
| SAP | Service Ancillary to Programme making |
| SAR | Search and Rescue |
| SART | Search And Rescue Transmitter |
| SATCOM | Satellite Communication |
| SCADA | Supervisory Control And Data Acquisition |
| SDL | Supplemental Downlink |
| SDN | Software Defined Networking |
| SEAMCAT | Spectrum Engineering Advanced Monte Carlo Analysis Tool |
| SG | Study Group |
| SIT/SUT | Satellite Interactive Terminal / Satellite User Terminal |
| SNG | Satellite News Gathering |
| SOLAS | International Convention for the Safety of Life at Sea |
| SOTA | Software Over The Air |
| S-PCS | Satellite - Personal Communications System |
| SRD | Short Range Device |
| SRdoc | Systems Reference Document |
| SRD/MG | Short Range Devices / Maintenance Group (of WG FM) |
| SRR | Short Range Radar |
| SSP | Spectrum Scanning Procedure |
| SSR | Secondary Surveillance Radar |
| STF | Specialist Task Force (of ETSI) |
| SWG | Sub Working Group |
| TACAN | Tactical Air Navigation |
| TB | Technical Body |
| TC | Technical Committee (of ETSI) |
| TCAM | Telecommunication Conformity Assessment and Market Surveillance Committee |
| TCU | Telematics Control Unit |
| T-DAB | Terrestrial [Digital Audio Broadcasting](http://de.wikipedia.org/wiki/Digital_Audio_Broadcasting) |
| TDD | Time Division Duplex |
| TDMA | Time Division Multiple Access |
| TETRA | Terrestrial Trunked Radio |
| TETRAPOL | Digital PMR technology |
| TFES | TC MSG / TC ERM Task Force for the production of Harmonised Standards under the RED for the IMT family (ETSI) |
| TLPR | Tank Level Probing Radar |
| TMO | Trunked Mode Operation |
| ToR | Terms of Reference |
| TPC | Transmit Power Control |
| TR | Technical Report |
| TRA-ECS | Terrestrial radio applications capable of providing electronic communications services |
| TRP | Total radiated power |
| TRS | Telecoil Replacement System |
| TSI | Technical specifications for interoperability |
| TTT | Transport and Traffic Telematics applications |
| TV | Television |
| TWG | Technical Working Group |
| UAS | Unmanned Aircraft Systems |
| UAV | Unmanned Aerial Vehicle |
| UGFA | UIC Group on Frequency Aspects |
| UHD | Ultra High Definition |
| UHF | Ultra High Frequency |
| UIC | “Union Internationale des Chemins de fer” (International Union of Railways) |
| UITP | “Union Internationale des Transports Publics” (International Association of Public Transport) |
| ULP | Ultra Low Power |
| ULP-AID | Ultra Low Power Animal Implant Devices |
| ULP-AMI | Ultra Low Power Active Medical Implants |
| ULP-MMI | Ultra Low Power Medical Membrane Implants |
| ULP-WMCE | Ultra-Low Power Wireless Medical Capsule Endoscopy |
| UMTS | Universal Mobile Telecommunications System |
| UNB | Ultra Narrow Band |
| URLLC | Ultra-reliable and low-latency communications |
| UWB | Ultra Wide Band |
| V2X | Vehicle-to-Everything |
| VDES | VHF Data Exchange System |
| VHF | Very High Frequency |
| VHTS | Very High Throughput Satellite |
| VLBI | Very Long Baseline Interferometry |
| VLCC | Video links and cordless cameras |
| VOR | VHF Omnidirectional Radio Range |
| VR | Virtual Reality |
| VSAT | Very Small Aperture Terminal |
| WAIC | Wireless Avionics Intra-Communications systems |
| WAS | Wireless Access Systems |
| WBB | Wireless Broadband |
| WBN | Wideband Networked |
| WFA | Wi-Fi Alliance |
| WG FM | Working Group Frequency Management |
| WG SE | Working Group Spectrum Engineering |
| WI | Work Item |
| WI95revCO07 | Wiesbaden, 1995,Special Arrangement, as revised in Constanţa, 2007 |
| WIA | Wireless Industrial Application |
| Wi-Fi | WLAN technology (see Wi-Fi Alliance) |
| WiGig | Wireless Gigabit |
| WiMAX | Worldwide Interoperability for Microwave Access |
| WLAM | Wideband Low Activity Mode |
| WLAN | Wireless Local Area Network |
| WLL | Wireless local loop |
| WMAS | Wideband Multichannel Audio Systems |
| WP | Working Party |
| WPR | Wall Probing Radar |
| WPT | Wireless Power Transmission |
| WRC | World Radiocommunication Conference |
| WS | White spaces |
| WSD | White Space Device |
| 3G, 4G, 5G | Third, Fourth, Fifth generation of mobile technology |
| 3GPP | 3rd Generation Partnership Project |
| 5G | 5th Generation Mobile Networks |
| 5GAA | 5G Automotive Association |