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# Abbreviations

used in the

## Swiss National Frequency Allocation Plan



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ACARS	Aircraft Communications Addressing and Reporting System
ACLR	Adjacent Channel Leakage Ratio
ACP	Adjacent Channel Power
ACRR	Adjacent Channel Rejection Ratio
ADS	Automatic Dependant Surveillance (Aeronautical)
Aer Mob (OR)	Aeronautical Radiocommunication
Aer Mob (R)	Aeronautical Mobile (off route)
Aer Nav	Aeronautical Radionavigation
AES	Aircraft Earth Stations
AF	Air Forces
AFA	Adaptive Frequency Agility
AGA	Air-Ground-Air
AIP	Aeronautical Information Publication (CH)
AIS	"Automatic Identification and Surveillance System" or "Universal shipborne Automatic Identification System"
ALD	Assistive Listening Devices
AM	Amplitude Modulation
AMS(R)S	Aeronautical Mobile-Satellite (Route) Service
ASDE	Airport Surface Detection Equipment
ATIS	Automatic Transmitter Identification System
ATPC	Automatic Transmit Power Control
BBDR	Broad Band Disaster Relief
BC	Broadcasting
BEM	Block Edge Mask
BFWA	Broadband Fixed Wireless Access
BMA	Building Material Analysis
BSS	Broadcasting Satellite Service
BTS	Base Transceiver Station
BW	Bandwidth
BWA	Broadband Wireless Access
CB	Citizen's Band
CDMA	Code Division Multiple Access
CEPT	European Conference of Postal and Telecommunications Administrations
CGC	Complementary Ground Component
CH	Switzerland
CICR	Comité International de la Croix Rouge
CIV	Civil
CNPC	Control and Non-Payload Communication
COM	Communication
CW	Continuous Waves
DA2GC	Direct Air-to-Ground Communications
DAA	Detect and Avoid
DAB	Digital Audio Broadcasting

dB	Decibel
dBd	Antenna gain in decibels relative to a dipole antenna
dBi	Antenna gain in decibels relative to an isotropic antenna
dBm	dB relative to the power of 1 mW
dBW	dB relative to the power of 1 W
DC	Duty Cycle
DEC	Decision
DECT	Digital Enhanced Cordless Telecommunications
D-GPS	Differential Global Positioning System
DL	Down Link (Base station to Mobile station)
DME	Distance Measuring Equipment
DMO	Direct Mode Operation (PMR)
DMR	Digital Mobile Radio
DRM	Digital Radio Mondiale
DRS	Digital Radio System
DSC	Digital Selective Calling
DSRR	Digital Short- Range Radio
DSSS	Direct Sequence Spread Spectrum
DVB-T	Digital Video Broadcasting - Terrestrial
DVB-H	Digital Video Broadcasting - Handheld
(E/S)	Earth to space, (E/S) as addition to space services and applications
EAS	Electronic Article Surveillance
ECA	European Common Allocation
ECC	Electronic Communications Committee (of CEPT)
ECC/DEC	Decision from the ECC
ECC/REC	Recommendation from the ECC
ECO	European Communications Office (former ERO)
EESS	Earth Exploration-Satellite Service
EFIS	ECO Frequency Information System
EIRP or e.i.r.p.	Equivalent Isotropically Radiated Power
ELT	Emergency Locator Transmitter
EMC	Electromagnetic Compatibility
EN	European Standard (Telecommunications series)
ENG/OB	Electronic News Gathering / Outside Broadcasting
EPIRBs	Emergency Position Indicating Radio Beacon
ERC	European Radiocommunications Committee
ERC/DEC	Decision from the ERC
ERC/REC	Recommendation from the ERC
ERMES	Enhanced Radio Messaging System
ERO	European Radiocommunications Office (now ECO)
ERP or e.r.p.	Effective Radiated Power
ERPEP or e.r.p.e.p.	Effective Radiated Peak Envelope Power
ES	Earth Station

ESIM	Earth Station In Motion (in satellite systems)
ESV	Earth Stations on-board Vessels
ETSI	European Telecommunications Standards Institute
FB	Base station (in a mobile radio system)
FHSS	Frequency Hopping Spread Spectrum
FM	Frequency Modulation
FMCW	Frequency Modulated Continuous Wave
FOCA	Federal Office of Civil Aviation
FHSS	Frequency Hopping Spread Spectrum
FL	Principality of Liechtenstein (Fürstentum Liechtenstein)
FRMCS	Future Railway Mobile Communication System
FS	Fixed Service
FSS	Fixed-Satellite Service
FWA	Fixed Wireless Access
GALILEO	European Global Navigation Satellite System
GBAS	Ground Based Augmentation System
GBSAR	Ground Based Synthetic Aperture Radar
GBR	Ground Based Radar
GFT	Global Flight Tracking
GLONASS	Global Orbiting Navigation Satellite System (Globalnaya Navigatsionnaya Sputnikovaya Sistema)
GMDSS	Global Maritime Distress and Safety System
GNSS	Global Navigation Satellite System
GNSS Pseudolites	Global Navigation Satellite System Pseudolites
GPR	Ground Probing Radar
GPS	Global Positioning System
GSM	Global System for Mobile Communications
GSM 1800	Global System for Mobile Communications at 1800 MHz
GSM 900	Global System for Mobile Communications at 900 MHz
GSMOBA	Global System for Mobile Communications On Board Aircraft
GSMOBV	Global System for Mobile Communications On Board Vessels
GSM-R	Global System for Mobile Communications on Railways
GSO ESOMPs	Earth Stations On Mobile Platforms (ESOMPs) operating with Geostationary Satellite Orbit systems
HAPS	High Altitude Platform Station
HDFS	High Density applications in the Fixed Service
HDFSS	High Density applications in the Fixed-Satellite Service
HEST	High EIRP Satellite Terminal
HIPERLAN	High Performance Radio Local Area Network
HRPD	High Rate Packet Data
ICAO	International Civil Aviation Organisation
IEEE	Institute of Electrical and Electronics Engineers
IFF	Identification Friend or Foe
ILS	Instrument Landing Systems

IMT	International Mobile Telecommunications (generic term used for broadband mobile systems)
IMT-2000	International Mobile Telecommunications-2000
IoT	Internet of Things
ISM	Industrial, Scientific and Medical Applications
ITS	Intelligent Transport Systems
ITU	International Telecommunication Union
JTIDS	Joint Tactical Information and Distribution System
LAN	Local Area Network
LBRDC	Low Bit Rate Data Communications
LBT	Listen Before Talk, Listen Before Transmit
LEO	Low Earth Orbiting
LEST	Low EIRP Satellite Terminal
Links	Radio Connections
LMES	Land Mobile satellite Earth Station
LPD	Low Power Device
LPR	Level Probing Radar
LRR	Long Range Radar
LTE	Long Term Evolution
Mar Mob	Maritime Mobile
MAC	Medium Access Control
MBR	Maritime Broadband Radio
MEDS	Medical Data Service Systems
MFCN	Mobile/Fixed Communications Networks
MIDS	Multifunctional Information Distribution System
MIL	Military
Misc. applic.	Miscellaneous applications
ML	Mobile station (in a mobile radio system)
MLS	Microwave Landing System
MMES	Maritime Mobile Earth Stations
mmwFS	millimetre wave applications in the Fixed Service
MP-MP	Multipoint to Multipoint
MSI	Maritime Safety Information
MSS	Mobile-Satellite Service
MWS	Multimedia Wireless System
NAVTEX	Narrow-band direct-printing telegraphy system for transmission of navigational and meteorological warnings and urgent information to ships
NCU	Network Control Unit
NDB	Non Directional Radio Beacon
NGSO	Non Geostationary Satellite Orbit
NGSO ESOMPs	Land and Maritime Earth Stations On Mobile Platforms (ESOMPs) operating with Non Geostationary Satellite Orbit systems
NIB	Non Interference Basis (in connection with frequency assignment)

NMT	Nordic Mobile Telephone
NPB	Non Protected Basis (in connection with frequency assignment)
NP2M	Narrowband Point to Multipoint system
OB	Outside Broadcasting
OBTS	On Board Transceiver Station
OFCOM	Federal Office of Communications
OFDM	Orthogonal Frequency Division Multiplexing
PAMR	Public Access Mobile Radio
PLB	Personal Locator Beacon
PLC	Powerline Communications
P-MP	Point to Multipoint
PMR	Private (Professional) Mobile Radio
PMSE	Programme Making and Special Events
POCSAG	Post Office Code Standard Advisory Group
PPDR	Public Protection and Disaster Relief
Primary	Where a band is indicated as allocated to more than one service and the name of the service is printed in "capitals" (example: FIXED) these are called "primary" services. Within a band, primary services shall have prior choice of frequencies. Where a band is indicated in a footnote of the Table as allocated to a service "on a primary basis" in an area smaller than a Region, or in a particular country, this is a primary service only in that area or country.
P-P	Point to Point
ppm	parts per million
PRF	Pulse Repetition Frequency
PSD	Power Spectral Density
R Tags	Radio Tags
R&TTE	Radio and Telecommunications Terminal Equipment
RA	Radio Astronomy
RAS	Radio Astronomy Service
RBW	Resolution Bandwidth
REC	Recommendation
REGA	Swiss Air-Rescue
RF	Radio frequency
RFID	Radio Frequency Identification
RIR	Radio Interface Regulation
RLAN	Radio Local Area Networks
RMR	Railway Mobile Radio
RNSS	Radionavigation Satellite Service
RR	Radio Regulations
RR xxx	Radio Regulations, Note xxx (see NaFZ Annex 1)
RSBN	Radiolocation Systems for Short Range Navigation
RSU	Road Site Units
RTE	Radar Target Enhancer

RTPC	Remote Transmit Power Control
RX	Receiver (Receiving frequency)
(S/E)	Space to Earth, (S/E) as addition to space services and applications
SAB	Service Ancillary to Broadcasting
SAP	Service Ancillary to Programme making
SAR	Search and Rescue
SARSAT	Search and Rescue Satellite
SDL	Supplementary Down Link
S-DAB	Satellite Digital Audio Broadcasting
Secondary	<p>Where a band is indicated as allocated to more than one service and the name of the service is printed in "normal characters" (example: Fixed) these are called "secondary services".</p> <p>Stations of a secondary service:</p> <p>a) shall not cause harmful interference to stations of primary services to which the frequencies are already assigned or to which stations may be assigned at a later date;</p> <p>b) cannot claim protection from harmful interference from stations of a primary service to which frequencies are already assigned or may be assigned at a later date;</p> <p>c) can claim protection, however, from harmful interference from stations of the same or other secondary service(s) to which frequencies may be assigned at a later date.</p> <p>Where a band is indicated in a footnote of the table as allocated to a service "on a secondary basis" in an area smaller than a Region, or in a particular country, this is a secondary service.</p>
SF-CW Radar	Stepped Frequency CW Radar
SIT/SUT	Satellite Interactive Terminal / Satellite User Terminal
SNG	Satellite News Gathering
SOLAS	Safety of Life at Sea
SPA	Self Provided Applications
S-PCS	Satellite Personal Communication System
SRD	Short Range Device
SRR	Short Range Radars
SS	Spread Spectrum
SSR	Secondary Surveillance Radar
TACAN	Tactical Air Navigation
TACS	Total Access Communications System
TAPS	TETRA Advanced Packet Service
T-DAB	Terrestrial Digital Audio Broadcasting
TETRA	Trans European Trunked Radio System, Terrestrial Trunked Radio
TETRAPOL	Digital PMR technology
TLPR	Tank Level Probing Radar
TRA-ECS	Terrestrial radio applications capable of providing electronic communications services
TRA-ECS	Terrestrial radio applications capable of providing electronic communications services
TTT	Transport and Traffic Telematics



TV	Television
TX	Transmitter (Transmitting frequency)
UA	Unmanned Aircraft
UAS	Unmanned Aircraft System
UAV	Unmanned Aerial Vehicle
UL	Up Link (Mobile station to Base station)
ULP-AID	Ultra Low Power Animal Implantable 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 Telecommunication System
UNO	United Nations Organisation
UWB	Ultra Wide Band
VBW	Video BandWidth
VLBI	Very Long Baseline Interferometry
VOR	VHF Omnidirectional Radio Range
v-BS	Vessel Base Station
v-MS	Vessel Mobile Station
VSAT	Very Small Aperture Terminal
VSWR	Voltage Standing Wave Ratio
VTs	Vessel Traffic System (radar)
WAIC	Wireless Avionics Intra-Communications systems
WAS	Wireless Access Systems
WAS/RLAN	Wireless Access Systems including Radio Local Area Networks
WB	Wide Band
WIA	Wireless Industrial Applications
WiMAX	Worldwide Interoperability for Microwave Access
WPR	Wall Probing Radar
WRC	World Radiocommunication Conference
WTO	World Trade Organization