European Radiocommunications Committee (ERC)
within the European Conference of Postal and Telecommunications Administrations (CEPT)

THE EUROPEAN TABLE OF FREQUENCY ALLOCATIONS AND UTILISATIONS COVERING THE FREQUENCY RANGE 9 kHz TO 275 GHz

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EUROPEAN TABLE OF FREQUENCY ALLOCATIONS AND UTILISATIONS
FREQUENCY RANGE 9 kHz TO 275 GHz

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EUROPEAN TABLE OF FREQUENCY ALLOCATIONS AND UTILISATIONS FREQUENCY RANGE 9 kHz TO 275 GHz

1 INTRODUCTION

Following the World Administrative Radio Conference in 1992 which allocated spectrum to new services in the 1 - 3 GHz frequency range CEPT began to develop a general plan to promote the harmonised European use of frequencies within the band 1350 - 2690 MHz. Particular importance was attached to the early development of such a general plan in order to provide a framework for the implementation of the decisions of WARC-92 and the consequential changes required, in a harmonised way, throughout CEPT member countries and to provide the necessary guidance for European radio equipment manufacturers to commence production.

Since then CEPT has endorsed the principle of adopting a harmonised European Table of Frequency Allocations and Utilisations by the year 2008. This work is being progressed by the CEPT European Radiocommunications Office (ERO) through a series of Detailed Spectrum Investigations (DSIs) which consider in turn different frequency ranges. The DSIs were developed as a major open and transparent consultation process in close cooperation with industry, organizations, administrations and users within the following frequency bands:

- The DSI Phase I covering the frequency range 3400 – 105 GHz developed in 1992-93
- The DSI Phase II covering the frequency range 29.7-960 MHz developed in 1994-95
- The DSI Phase III covering the frequency range 862-3400 MHz developed in 1998-2000

As a result of the DSIs the CEPT adopted the Harmonised European Table of Frequency Allocations and Utilisations. The first table was agreed upon in June 1994 and several updates have been agreed until the current version (Lisbon January 2002)

2 WARC-92, WRC-95 ,WRC-97 and WRC-2000

Due account has been taken of the relevant decisions of the World Radio Conferences WARC-92, WRC-95 ,WRC-97 and WRC-2000 and of strategies developed by other international fora concerning, in particular, the introduction and development of mobile and mobile-satellite services.

3 EUROPEAN TABLE OF FREQUENCY ALLOCATIONS AND UTILISATIONS

A European Table of Frequency Allocations and Utilisations for the frequency band 9 kHz to 275 GHz expected beyond the year 2008 has been developed and is attached as Annex 1 to this Report. Although the implementation of this Table has been arranged for the year 2008 it is expected that CEPT member countries will endeavour to implement, as soon as possible, as many parts of the Table as they are able. It is also expected that the Table will be used as a source document by CEPT member countries for the development of Recommendations, Decisions, and European Common Proposals (ECPs) for future Radio Conferences of the ITU and as background for development of national frequency allocation tables and national frequency usage plans.

This Report and its associated table will be reviewed periodically (once a year) and revised as necessary by the ECC taking into account the results of World Radio Conferences, future DSIs, ECC/ERC Decisions and other relevant developments.

4 CEPT DECISIONS AND RECOMMENDATIONS

During the preparation of the Table account was taken of work already completed by CEPT in respect of systems expected to operate in this frequency range. The ECC/ERC Decisions and ECC/ERC Recommendations, which are relevant to frequency management issues, have been incorporated into the Table and are listed in Annex 4.

5 MILITARY REQUIREMENTS

Liaison with military authorities from CEPT countries has also been necessary in view of their use of, and requirements in, this frequency range. Although no single representative military body exists for all CEPT member countries, the North Atlantic Treaty Organisation (NATO) has a Joint Civil/Military Frequency Agreement (NJFA) which was felt to be a useful basis from which to develop a view of military frequency requirements. A forum that allows both civil and military frequency managers from all CEPT countries to meet has also been established by CEPT. This forum established a project team (JPT1) which has looked in detail at the requirements for harmonised military usage of spectrum to meet the needs of both NATO and non-NATO CEPT countries. The results of the studies by JPT1 are reflected in the Table.

Military requirements vary both between activities and countries. In some countries national requirements may be more than the harmonised band, in other countries for the time being there may be no national requirements in a specific harmonised band.

In general, the harmonised military bands should provide *a common military frequency resource* in order to allow systems to operate in common border areas, facilitate common exercises and Peace Keeping Operations (PKO), include the core frequency assets for day-to-day training, exercise, combat readiness and employment and support electronic countermeasures (ECM) training.

Any spectrum reorganisation should aim at a provision of a common military frequency resource in accordance with the ECA.

ANNEX 1

EUROPEAN TABLE OF FREQUENCY ALLOCATIONS AND UTILISATIONS IN THE RANGE 9 kHz TO 275 GHz EXPECTED BEYOND THE YEAR 2008

EXPLANATORY NOTES TO THE TABLE

The heading of this table includes a number of columns, with the following contents:

Column 1: Frequency Band
Indicates the frequency band referred to in that row of the table

Column 2: RR Region 1 Allocations and relevant footnotes
Contains in each frequency band:
- Current RR Article 5 allocations which correspond to Region 1.
- Current RR Article 5 footnotes relevant to CEPT countries

See Annex 3 for description of the RR Article 5 footnotes included in the table.

Column 3: European Common Allocation (ECA)
Contains in each frequency band:
- Allocations of major use or major interest in CEPT member countries expected beyond 2008.
- RR Art. 5 footnotes affecting a major number of CEPT countries beyond 2008. RR Art 5 footnotes with specific allocation to CEPT countries are only included in the European Table if 10 or more CEPT countries are included in the footnote
- EU footnotes relevant to the European allocation. See Annex 2

Column 4: Major utilisation
This column includes where appropriate in each frequency band and for the services allocated in the European Common Allocation:
- The major uses in CEPT member countries expected beyond 2008.
- Mention of systems expected to be in use in a major number of CEPT member countries beyond the year 2008.

Mention of specific utilisations of a given service does not preclude the use of other services mentioned in the European Common Allocation.

Column 5: EU footnotes
This column contains EU footnotes relevant to the particular utilization.

Column 6: ECC/ERC document
This column contains information about ECC/ERC Decisions and Recommendations relevant to the particular utilization. The ECC/ERC documents are described in Annex 4

Column 7: Standards
This column contains information about the relevant standards.
For Harmonised Standards as defined in the R&TTE Directive see Annex 5

Column 5: Notes

This column indicates where appropriate in each frequency band:

Where applicable, the date of entry into force of:

a) a specific allocation of the European Common Allocation column.
b) ERC Decision / ERC Recommendation mentioned in the utilisations column.
c) major utilisation contained in the utilisation column.

Any other relevant information such as the nature of use of a major utilisation.

In respect of **defence systems** two terms are used with the associated definitions:

1) Common military tuning range:- A common military tuning range is normally a recommended tuning range for radio equipment operating across harmonised military bands. Such a tuning range forms the basis for planning of future military equipment procurement.

2) Harmonised military band:- A frequency band which is in general military use in Europe and identified for military utilisation in the European Common Allocation Table (ECA). Such a frequency band forms a basis for military use and planning. The band can be shared between civil and military users according to national requirements and legislation.

RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band	European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note
925 - 935 MHz						
BROADCASTING 5.322 FIXED MOBILE except aeronautical mobile 5.317A Radiolocation 5.323	MOBILE Radiolocation 5.317A EU2 5.323 EU13 EU14 EU29	Defence systems	EU30			Sharing on a national basis
		EGSM	EU30 EU32	ERC DEC (97)02	EN 301 502 EN 301 511	FB paired with 880-890 MHz
935 - 942 MHz						
BROADCASTING 5.322 FIXED MOBILE except aeronautical mobile 5.317A Radiolocation 5.323	MOBILE Radiolocation 5.317A EU13 5.323 EU14 EU29	GSM	EU32	ERC DEC (94)01	EN 301 502 EN 301 511	FB paired with 890-897 MHz
942 - 960 MHz						
BROADCASTING 5.322 FIXED MOBILE except aeronautical mobile 5.317A 5.323	MOBILE 5.317A EU13 5.323 EU29	GSM	EU32	ERC DEC (94)01	EN 301 502 EN 301 511	FB paired with 897-915 MHz
960 - 1215 MHz						
AERONAUTICAL RADIONAVIGATION 5.328 5.328A	AERONAUTICAL RADIONAVIGATION 5.328 5.328A	Flight Safety, Navigation and Information Distribution systems (DME,TACAN,SSR,MIDS)				
		GNSS				1164-1215 MHz

RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band	European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note
1215 - 1240 MHz						
EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION RADIONAVIGATION-SATELLITE (S/E) (S/S) 5.329 5.329A SPACE RESEARCH (active) 5.331 5.332	EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION RADIONAVIGATION 5.331 RADIONAVIGATION-SATELLITE (S/E) (S/S) 5.329 5.329A SPACE RESEARCH (active) 5.332	GNSS Radar and Navigation systems and Active Sensors				
1240 - 1260 MHz						
EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION RADIONAVIGATION-SATELLITE (S/E) (S/S) 5.329 5.329A SPACE RESEARCH (active) Amateur 5.331 5.332	EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION RADIONAVIGATION 5.331 RADIONAVIGATION-SATELLITE (S/E) (S/S) 5.329 5.329A SPACE RESEARCH (active) Amateur 5.332	Amateur applications GNSS Radar and Navigation systems and Active Sensors			EN 301 783	
1260 - 1270 MHz						
EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION RADIONAVIGATION-SATELLITE (S/E) (S/S) 5.329 5.329A SPACE RESEARCH (active) Amateur 5.282 5.331 5.335A	EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION RADIONAVIGATION 5.331 RADIONAVIGATION-SATELLITE (S/E) (S/S) 5.329 5.329A SPACE RESEARCH (active) Amateur Amateur-Satellite 5.282 5.335A	Amateur applications Amateur Satellite applications Radar and Navigation systems and Active Sensors			EN 301 783 EN 301 783	

RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band	European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note
1270 - 1300 MHz						
EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION RADIONAVIGATION-SATELLITE (S/E) (S/S) 5.329 5.329A SPACE RESEARCH (active) Amateur 5.282 5.331 5.335A	EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION RADIONAVIGATION 5.331 RADIONAVIGATION-SATELLITE (S/E) (S/S) 5.329 5.329A SPACE RESEARCH (active) Amateur 5.335A	Amateur applications			EN 301 783	
		Radar and Navigation systems and Active Sensors				
		Wind profiler radars				Within the band 1270-1295 MHz
1300 - 1350 MHz						
AERONAUTICAL RADIONAVIGATION S5.337 RADIOLOCATION RADIONAVIGATION-SATELLITE (E/S) 5.149 5.337A	AERONAUTICAL RADIONAVIGATION S5.337 RADIOLOCATION RADIONAVIGATION-SATELLITE (E/S) 5.149 5.337A	Radar and Navigation systems				
		Radio astronomy applications				Spectral line observations 1330-1400 MHz
1350 - 1400 MHz						
FIXED MOBILE RADIOLOCATION 5.149 5.338 5.339	FIXED MOBILE RADIOLOCATION 5.149 EU2 5.339 EU15	Defence systems	EU15A			
		Low capacity fixed links		ERC REC T/R 13-01	EN 301 751	
		Radio astronomy applications				Spectral line observations in 1330-1400 MHz

RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band	European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note
1400 - 1427 MHz						
EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.341	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 EU15 5.341	Passive applications				
1427 - 1429 MHz						
FIXED MOBILE except Aeronautical Mobile SPACE OPERATION (E/S) 5.341	FIXED MOBILE except Aeronautical Mobile SPACE OPERATION (E/S) 5.341 EU2 EU15	Defence systems Low capacity fixed links	EU15A	 ERC REC T/R 13-01	 EN 301 751	
1429 - 1452 MHz						
FIXED MOBILE except Aeronautical Mobile 5.341 5.342	FIXED MOBILE except Aeronautical Mobile 5.341 EU2 EU15	Defence systems Low capacity fixed links	EU15A	 ERC REC T/R 13-01	 EN 301 751	
1452 - 1492 MHz						
BROADCASTING 5.345 5.347 BROADCASTING-SATELLITE 5.345 5.347 FIXED MOBILE except Aeronautical Mobile 5.341 5.342	BROADCASTING 5.345 BROADCASTING-SATELLITE 5.345 Fixed Mobile except Aeronautical Mobile 5.341 EU15	S-DAB T-DAB Maastricht 2002 special arrangement				1479.5 - 1492 MHz 1452-1479.5 MHz

RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band	*European Common Allocation*	*Utilisation*	*EU footnote*	*ECC/ERC document*	*Standard*	*Note*
1492 - 1517 MHz						
FIXED MOBILE except Aeronautical Mobile 5.341 5.342	FIXED MOBILE except Aeronautical Mobile 5.341 EU2 EU15	Defence systems	EU15A			
		Low capacity fixed links		ERC REC T/R 13-01	EN 301 751	
1517 - 1525 MHz						
FIXED MOBILE except Aeronautical Mobile 5.341 5.342	FIXED MOBILE except Aeronautical Mobile 5.341 EU2 EU15	Defence systems	EU15A			
		Unidirectional fixed links			EN 301 751	
1525 - 1530 MHz						
FIXED MOBILE-SATELLITE (S/E) 5.351A SPACE OPERATION (S/E) Earth Exploration-Satellite Mobile except Aeronautical Mobile 5.349 5.341 5.342 5.350 5.351 5.352A 5.354	FIXED MOBILE-SATELLITE (S/E) 5.351A SPACE OPERATION (S/E) 5.341 EU15 5.351 5.354	Mobile satellite applications			EN 301 426 EN 301 444 EN 301 681 EN 301 473	
		Unidirectional fixed links			EN 301 751	

RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band	*European Common Allocation*	*Utilisation*	*EU footnote*	*ECC/ERC document*	*Standard*	*Note*
1530 - 1533 MHz						
MOBILE-SATELLITE (S/E) 5.353A 5.351A	MOBILE-SATELLITE (S/E) 5.353A 5.351A	Mobile satellite applications			EN 301 426	
SPACE OPERATION (S/E)	SPACE OPERATION (S/E)				EN 301 444	
Earth Exploration-Satellite	Earth Exploration-Satellite				EN 301 681	
Fixed	Fixed				EN 301 473	
Mobile except Aeronautical Mobile	Mobile except Aeronautical Mobile					
5.341	5.341 EU15					
5.342	5.351					
5.351	5.354					
5.354						
1533 - 1535 MHz						
MOBILE-SATELLITE (S/E) 5.353A 5.351A	MOBILE-SATELLITE (S/E) 5.353A 5.351A	Mobile satellite applications			EN 301 426	
SPACE OPERATION (S/E)	SPACE OPERATION (S/E)				EN 301 444	
Earth Exploration-Satellite	Earth Exploration-Satellite				EN 301 681	
Fixed	Mobile except Aeronautical Mobile				EN 301 473	
Mobile except Aeronautical Mobile						
5.341	5.341 EU15					
5.342	5.351					
5.351	5.354					
5.354						
1535 - 1544 MHz						
MOBILE-SATELLITE (S/E) 5.351A	MOBILE-SATELLITE (S/E) 5.351A	Mobile satellite applications			EN 301 426	
5.341	5.341 EU15				EN 301 444	
5.351	5.351				EN 301 681	
5.353A	5.353A				EN 301 473	
5.354	5.354					
5.355						

RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band	European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note
1544 - 1545 MHz						
MOBILE-SATELLITE (S/E) 5.351A 5.341 5.354 5.355 5.356	MOBILE-SATELLITE (S/E) 5.351A 5.341 EU15 5.354 5.356	Mobile satellite applications			EN 301 426 EN 301 444 EN 301 681 EN 301 473	
		Search and rescue satellite systems (incl GMDSS)				
1545 - 1555 MHz						
MOBILE-SATELLITE (S/E) 5.351A 5.341 5.351 5.354 5.355 5.357 5.357A 5.359	MOBILE-SATELLITE (S/E) 5.351A 5.341 EU15 5.351 5.354 5.357 5.357A 5.359	Mobile satellite applications			EN 301 426 EN 301 444 EN 301 681 EN 301 473	
1555 - 1559 MHz						
MOBILE-SATELLITE (S/E) 5.351A 5.341 5.351 5.354 5.355 5.359	MOBILE-SATELLITE (S/E) 5.351A 5.341 EU15 5.351 5.354 5.359	Mobile satellite applications			EN 301 426 EN 301 444 EN 301 681 EN 301 473	
1559 - 1610 MHz						
AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE (S/E) (S/S) 5.329A 5.341 5.362B 5.362C 5.363	AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE (S/E) (S/S) 5.329A 5.341 EU15 5.362B	GNSS				

RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band	*European Common Allocation*	*Utilisation*	*EU footnote*	*ECC/ERC document*	*Standard*	*Note*
1610 - 1610.6 MHz						
AERONAUTICAL RADIONAVIGATION MOBILE-SATELLITE (E/S) 5.351A 5.341 5.355 5.359 5.363 5.364 5.366 5.367 5.368 5.371 5.372	AERONAUTICAL RADIONAVIGATION MOBILE-SATELLITE (E/S) 5.351A 5.341 EU15 5.359 5.364 5.366 5.367 5.368 5.371 5.372	Mobile satellite applications		ERC DEC (97)03	EN 301 441 EN 301 473	
1610.6 - 1613.8 MHz						
AERONAUTICAL RADIONAVIGATION MOBILE-SATELLITE (E/S) 5.351A RADIO ASTRONOMY 5.149 5.341 5.355 5.359 5.363 5.364 5.366 5.367 5.368 5.371 5.372	AERONAUTICAL RADIONAVIGATION MOBILE-SATELLITE (E/S) 5.351A RADIO ASTRONOMY 5.149 EU15 5.341 5.359 5.364 5.366 5.367 5.368 5.371 5.372	Mobile satellite applications		ERC DEC (97)03	EN 301 441 EN 301 473	
		Radio astronomy applications				Spectral line observations

RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band	European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note
1613.8 - 1626.5 MHz						
AERONAUTICAL RADIONAVIGATION MOBILE-SATELLITE (E/S) 5.351A Mobile-Satellite (S/E) 5.341 5.355 5.359 5.363 5.364 5.365 5.366 5.367 5.368 5.371 5.372	AERONAUTICAL RADIONAVIGATION MOBILE-SATELLITE (E/S) 5.351A Mobile-Satellite (S/E) 5.341 EU15 5.359 5.364 5.365 5.366 5.367 5.368 5.371 5.372	Mobile satellite applications		ERC DEC (97)03	EN 301 441 EN 301 473	
1626.5 - 1631.5 MHz						
MOBILE-SATELLITE (E/S) 5.351A 5.341 5.351 5.353A 5.354 5.355 5.359	MOBILE-SATELLITE (E/S) 5.351A 5.341 EU15 5.351 5.353A 5.354 5.359	Mobile satellite applications			EN 301 426 EN 301 444 EN 301 681 EN 301 473	
1631.5 - 1636.5 MHz						
MOBILE-SATELLITE (E/S) 5.351A 5.341 5.351 5.353A 5.354 5.355 5.359 5.374	MOBILE-SATELLITE (E/S) 5.351A 5.341 EU15 5.351 5.353A 5.354 5.359 5.374	Mobile satellite applications			EN 301 426 EN 301 444 EN 301 681 EN 301 473	

RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band	European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note
1636.5 - 1645.5 MHz						
MOBILE-SATELLITE (E/S) 5.351A 5.341 5.351 5.353A 5.354 5.355 5.359	MOBILE-SATELLITE (E/S) 5.351A 5.341 EU15 5.351 5.353A 5.354 5.359	Mobile satellite applications			EN 301 426 EN 301 444 EN 301 681 EN 301 473	
1645.5 - 1646.5 MHz						
MOBILE-SATELLITE (E/S) 5.351A 5.341 5.354 5.375	MOBILE-SATELLITE (E/S) 5.351A 5.341 EU15 5.354 5.375	Search and rescue satellite systems (incl GMDSS)				
1646.5 - 1656.5 MHz						
MOBILE-SATELLITE (E/S) 5.351A 5.341 5.351 5.354 5.355 5.357A 5.359 5.376	MOBILE-SATELLITE (E/S) 5.351A 5.341 EU15 5.351 5.354 5.357A 5.359 5.376	Mobile satellite applications			EN 301 426 EN 301 444 EN 301 681 EN 301 473	
1656.5 - 1660 MHz						
MOBILE-SATELLITE (E/S) 5.351A 5.341 5.351 5.354 5.355 5.359 5.374	MOBILE-SATELLITE (E/S) 5.351A 5.341 EU15 5.351 5.354 5.359 5.374	Mobile satellite applications			EN 301 426 EN 301 444 EN 301 681 EN 301 473	

RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band	European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note
1660 - 1660.5 MHz						
MOBILE-SATELLITE (E/S) 5.351A	MOBILE-SATELLITE (E/S) 5.351A	Mobile satellite applications			EN 301 426	
RADIO ASTRONOMY	RADIO ASTRONOMY				EN 301 444	
5.149	5.149 EU15				EN 301 681	
5.341	5.341				EN 301 473	
5.351	5.351	Radio astronomy applications				Continuum line and VLBI Measurements
5.354	5.354					
5.376A	5.376A					
1660.5 - 1668.4 MHz						
RADIO ASTRONOMY	RADIO ASTRONOMY	Defence systems	EU15A			
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)					
Fixed	Fixed	Radio astronomy applications				Continuum line and VLBI measurements
Mobile except Aeronautical Mobile	Mobile except Aeronautical Mobile					
5.149	5.149 EU2					
5.341	5.341 EU15					
5.379A	5.379A					
1668.4 - 1670 MHz						
FIXED	FIXED	Defence systems	EU15A			
METEOROLOGICAL AIDS	METEOROLOGICAL AIDS	Meteorological applications				
MOBILE except Aeronautical Mobile	RADIO ASTRONOMY	Radio astronomy applications				
RADIO ASTRONOMY	Mobile except Aeronautical Mobile					
5.149	5.149 EU2					
5.341	5.341 EU15					
1670 - 1675 MHz						
FIXED	METEOROLOGICAL AIDS	Meteorological applications				
METEOROLOGICAL AIDS	METEOROLOGICAL-SATELLITE (S/E)	TFTS		ERC REC T/R 42-01 ECC DEC (02)07	EN 301 423	
METEOROLOGICAL-SATELLITE (S/E)	MOBILE 5.380					
MOBILE 5.380	Fixed					
5.341	5.341					

RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band	European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note
1675 - 1690 MHz						
FIXED METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (S/E) MOBILE except Aeronautical Mobile 5.341	FIXED METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (S/E) MOBILE except Aeronautical Mobile 5.341 EU2 EU15	Defence systems Meteorological applications	EU15A			
1690 - 1700 MHz						
METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (S/E) Fixed Mobile except Aeronautical Mobile 5.289 5.341 5.382	METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (S/E) Fixed Mobile except Aeronautical Mobile 5.289 EU2 5.341 EU15 5.382	Defence systems Meteorological applications	EU15A			
1700 - 1710 MHz						
FIXED METEOROLOGICAL-SATELLITE (S/E) MOBILE except Aeronautical Mobile 5.289 5.341	FIXED METEOROLOGICAL-SATELLITE (S/E) Mobile except Aeronautical Mobile 5.289 EU2 5.341 EU15	Defence systems Meteorological applications	EU15A			
1710 - 1785 MHz						
FIXED MOBILE 5.384A 5.149 5.341 5.385 5.387	FIXED MOBILE 5.384A 5.149 EU15 5.341 EU29 5.385	GSM1800	EU33	ERC DEC (95)03 ERC REC T/R 22-07	EN 301 502 EN 301 511	

RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band	European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note
1785 - 1800 MHz						
FIXED MOBILE 5.384A 5.387	FIXED MOBILE EU2 EU15	Mobile applications Radio microphones		 ERC REC 70-03	 EN 301 840	 Within the band 1785.7-1799.4 MHz
1800 - 1805 MHz						
FIXED MOBILE S.380 5.384A	MOBILE 5.380 Fixed EU15	TFTS		ERC REC T/R 42-01 ECC DEC (02)07	EN 301 423	
1805 - 1880 MHz						
FIXED MOBILE 5.384A	FIXED MOBILE 5.384A EU15 EU29	GSM1800	EU33	ERC DEC (95)03 ERC REC T/R 22-07	EN 301 502 EN 301 511	
1880 - 1885 MHz						
FIXED MOBILE 5.384A	MOBILE 5.384A Fixed EU15	DECT	EU33	ERC DEC (94)03	EN 301 406 EN 301 908	
1885 - 1900 MHz						
FIXED MOBILE 5.388A 5.388	MOBILE 5.388A Fixed 5.388 EU15	DECT	EU33	ERC DEC (94)03	EN 301 406 EN 301 908	
1900 - 1930 MHz						
FIXED MOBILE 5.388A 5.388	FIXED MOBILE 5.388A 5.388 EU15 EU16	UMTS/IMT-2000		ERC DEC (97)07 ERC DEC (00)01 ERC DEC (99)25	EN 301 908	For border coordination see also ERC REC(01)01 For harmonised spectrum scheme see also ERC DEC (99)25

RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band	*European Common Allocation*	*Utilisation*	*EU footnote*	*ECC/ERC document*	*Standard*	*Note*
1930 - 1970 MHz						
FIXED MOBILE 5.388A 5.388	FIXED MOBILE 5.388A 5.388 EU15 EU16	UMTS/IMT-2000		ERC DEC (97)07 ERC DEC (00)01		For border coordination see also ERC REC(01)01 For harmonised spectrum scheme see also ERC DEC (99)25
1970 - 1980 MHz						
FIXED MOBILE 5.388A 5.388	FIXED MOBILE 5.388A 5.388 EU15 EU16	UMTS/IMT-2000		ERC DEC (97)07 ERC DEC (00)01		For border coordination see also ERC REC(01)01 For harmonised spectrum scheme see also ERC DEC (99)25
1980 - 2010 MHz						
FIXED MOBILE MOBILE-SATELLITE (E/S) 5.351A 5.388 5.389A	FIXED MOBILE MOBILE-SATELLITE (E/S) 5.351A 5.388 EU15 5.389A EU16	Mobile satellite applications		ERC DEC (97)03 ERC DEC (97)04	EN 301 442 EN 301 473	
		UMTS/IMT-2000 satellite component		ERC DEC (97)07 ERC DEC (00)01 ERC DEC (99)25		
2010 - 2025 MHz						
FIXED MOBILE 5.388A 5.388	FIXED MOBILE 5.388A 5.388 EU15 EU16	UMTS/IMT-2000		ERC DEC (97)07 ERC DEC (00)01 ERC DEC (99)25	EN 301 908	For border coordination see also ERC REC(01)01 For harmonised spectrum scheme see also ERC DEC (99)25

RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band	European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note
2025 - 2110 MHz						
EARTH EXPLORATION-SATELLITE (E/S) (S/S) FIXED MOBILE 5.391 SPACE OPERATION (E/S) (S/S) SPACE RESEARCH (E/S) (S/S) 5.392	EARTH EXPLORATION-SATELLITE (E/S) (S/S) FIXED MOBILE 5.391 SPACE OPERATION (E/S) (S/S) SPACE RESEARCH (E/S) (S/S) 5.392 EU2 EU15 EU27	Fixed links		ERC REC T/R 13-01	EN 301 751	
		SAP/SAB	EU16A	ERC REC 25-10		On a tuning range basis
		Space science services				
		Tactical Radio Relay	EU16A			Harmonised military band for Tactical Radio Relay linksfor near cross border operation within the band 2025-2070 MHz
2110 - 2120 MHz						
FIXED MOBILE 5.388A SPACE RESEARCH (deep space) (E/S) 5.388	FIXED MOBILE 5.388A SPACE RESEARCH (deep space) (E/S) 5.388 EU15 EU16	UMTS/IMT-2000		ERC DEC (97)07 ERC DEC (00)01 ERC DEC (99)25	EN 301 908	For border coordination see also ERC REC(01)01 For harmonised spectrum scheme see also ERC DEC (99)25
2120 - 2170 MHz						
FIXED MOBILE 5.388A 5.388 5.392A	FIXED MOBILE 5.388A 5.388 EU15 EU16	UMTS/IMT-2000		ERC DEC (97)07 ERC DEC (00)01 ERC DEC (99)25	EN 301 908	For border coordination see also ERC REC(01)01 For harmonised spectrum scheme see also ERC DEC (99)25
2170 - 2200 MHz						
FIXED MOBILE MOBILE-SATELLITE (S/E) 5.351A 5.388 5.389A 5.392A	FIXED MOBILE MOBILE-SATELLITE (S/E) 5.351A 5.388 EU15 5.389A EU16	Mobile satellite applications		ERC DEC (97)03 ERC DEC (97)04	EN 301 442 EN 301 473	
		UMTS/IMT-2000 satellite component		ERC DEC (97)07 ERC DEC (00)01		

RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band	*European Common Allocation*	*Utilisation*	*EU footnote*	*ECC/ERC document*	*Standard*	*Note*
2200 - 2290 MHz						
EARTH EXPLORATION-SATELLITE (S/E) (S/S) FIXED MOBILE 5.391 SPACE OPERATION (S/E) (S/S) SPACE RESEARCH (S/E) (S/S) 5.392	EARTH EXPLORATION-SATELLITE (S/E) (S/S) FIXED MOBILE 5.391 SPACE OPERATION (S/E) (S/S) SPACE RESEARCH (S/E) (S/S) 5.392 EU15 EU27	Fixed links		ERC REC T/R 13-01	EN 301 751	
		Radio astronomy applications				VLBI
		SAP/SAB	EU16A	ERC REC 25-10		On a tuning range basis
		Space science services				
		Tactical Radio Relay	EU16A			Harmonised military band for Tactical Radio Relay links for near cross border operation within the band 2200-2245 MHz.
2290 - 2300 MHz						
FIXED MOBILE except Aeronautical Mobile SPACE RESEARCH (deep space) (S/E)	FIXED MOBILE except Aeronautical Mobile SPACE RESEARCH (deep space) (S/E) EU2	Mobile applications				
2300 - 2400 MHz						
FIXED MOBILE Amateur Radiolocation 5.395	FIXED MOBILE Amateur Radiolocation EU2 EU15	Aeronautical Telemetry		ERC REC 62-02		Parts of the band are used for aeronautical telemetry on a national basis
		Amateur applications			EN 301 783	
		Mobile applications				
		SAP/SAB		ERC REC 25-10		

RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band	European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note
2400 - 2450 MHz						
FIXED MOBILE Amateur Radiolocation 5.150 5.282	FIXED MOBILE Amateur Amateur-Satellite 5.150 EU2 5.282 EU15	Amateur applications			EN 301 783	
		Amateur Satellite applications			EN 301 783	
		Automatic Vehicle Identification		ERC REC 70-03	EN 300 761	2446-2454 MHz
		ISM				
		Motion sensors		ERC DEC (01)08	EN 300 440	
		Non specific SRD		ERC DEC (01)05 ERC REC 70-03	EN 300 440	
		RFID		ERC REC 70-03	EN 300 440	
		RLAN		ERC DEC (01)07 ERC REC 70-03	EN 300 328	
2450 - 2483.5 MHz						
FIXED MOBILE Radiolocation 5.150 5.397	FIXED MOBILE 5.150 EU2 EU15	Automatic Vehicle Identification		ERC REC 70-03	EN 300 761	2446-2454 MHz
		ISM				
		Motion sensors		ERC DEC (01)08	EN 300 440	
		Non specific SRD		ERC DEC (01)05 ERC REC 70-03	EN 300 440	
		RFID		ERC REC 70-03	EN 300 440	
		RLAN		ERC DEC (01)07 ERC REC 70-03	EN 300 328	
2483.5 - 2500 MHz						
FIXED MOBILE MOBILE-SATELLITE (S/E) 5.351A Radiolocation 5.150 5.371 5.397 5.398 5.399 5.402	FIXED MOBILE MOBILE-SATELLITE (S/E) 5.351A 5.150 EU15 5.371 5.398 5.402	Fixed links		ERC REC T/R 13-01	EN 301 751	
		ISM				
		Mobile applications				
		Mobile satellite applications		ERC DEC (97)03	EN 301 441 EN 301 473	
		SAP/SAB		ERC REC 25-10		

RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band	European Common Allocation		Utilisation	EU footnote	ECC/ERC document	Standard	Note
2500 - 2520 MHz							
FIXED 5.409 5.410 5.411	MOBILE except aeronautical mobile 5.384A		Mobile satellite applications				
MOBILE except aeronautical mobile 5.384A	MOBILE-SATELLITE (S/E) 5.403 5.351A		UMTS/IMT-2000		ECC DEC (02)06		
MOBILE-SATELLITE (S/E) 5.403 5.351A	Fixed						
5.405	5.414	EU15					
5.412							
5.414							
2520 - 2655 MHz							
BROADCASTING-SATELLITE 5.413 5.416	FIXED		Defence systems				
FIXED 5.409 5.410 5.411	MOBILE except aeronautical mobile 5.384A		Fixed links		ERC REC T/R 13-01	EN 301 751	
MOBILE except aeronautical mobile 5.384A			SAP/SAB		ERC REC 25-10		On a tuning range basis until UMTS/IMT2000 is implemented
5.339	5.339	EU2	Terrestrial UMTS/IMT-2000		ECC DEC (02)06		
5.403	5.418B	EU15					
5.405	5.418C	EU16					
5.412							
5.418							
5.418B							
5.418C							
2655 - 2670 MHz							
BROADCASTING-SATELLITE 5.413 5.416	FIXED		Fixed links		ERC REC T/R 13-01	EN 301 751	
FIXED 5.409 5.410 5.411	MOBILE except aeronautical mobile 5.384A		Radio astronomy applications				Continuum measurements
MOBILE except aeronautical mobile 5.384A	Earth Exploration-Satellite (passive)		SAP/SAB		ERC REC 25-10		On a tuning range basis until UMTS/IMT2000 is implemented
Earth Exploration-Satellite (passive)	Radio Astronomy		Terrestrial UMTS/IMT-2000		ECC DEC (02)06		
Radio Astronomy	Space Research (passive)						
Space Research (passive)							
5.149	5.149	EU2					
5.412		EU15					
5.420		EU16					

RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band	European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note
2670 - 2690 MHz						
FIXED 5.409 5.410 5.411 MOBILE except aeronautical mobile 5.384A MOBILE-SATELLITE (E/S) 5.351A Earth Exploration-Satellite (passive) Radio Astronomy Space Research (passive) 5.149 5.412 5.419 5.420	MOBILE except aeronautical mobile 5.384A MOBILE-SATELLITE (E/S) 5.351A Fixed Radio Astronomy 5.149 EU15 5.419 5.420	Mobile satellite applications Radio astronomy applications UMTS/IMT-2000	 	 ECC DEC (02)06	 	 Continuum measurements
2690 - 2700 MHz						
EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.421 5.422	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340	Passive applications				
2700 - 2900 MHz						
AERONAUTICAL RADIONAVIGATION S5.337 Radiolocation 5.423	AERONAUTICAL RADIONAVIGATION S5.337 Radiolocation 5.423	Meteorological radars Radar and Navigation systems				
2900 - 3100 MHz						
RADIONAVIGATION 5.426 Radiolocation 5.425 5.427	RADIOLOCATION RADIONAVIGATION 5.426 5.425 5.427	Radar and Navigation systems				

EU-footnotes included in the European Common Allocation Table

EU-foot-number	EU-footnote text
EU1	Within the frequency band 20-108 MHz the common military tuning range is 30-87.5 MHz, however, some equipment types use the lower (20 MHz) and upper (108 MHz) limits, regulated on a national basis. The harmonised military bands are:- 30.30-30.50 MHz; 32.15-32.45 MHz; 41.00-47.00 MHz; 73.30-74.10 MHz; 79.0-79.70 MHz. When providing for additional requirements, further blocks of frequencies should be spread out over the whole common military tuning range in order to supply frequencies for frequency hopping equipment and to support a larger force (corps size, three divisions). This should be done by the national frequency management organisation(s) concerned.
EU2	Civil-military sharing
EU3	CEPT administrations are urged to take all practical steps to clear the band 47-68 MHz of assignments to the broadcasting service. The broadcasting assignments according to Stockholm Agreement 1961 shall be protected.
EU4	CEPT administrations are urged to take all practical steps to clear the band 68 - 73 MHz of assignments to the broadcasting service. The broadcasting assignments according to the Final Acts of the Special Regional Conference, Geneva, 1961 shall be protected.
EU5	In parts of this band aeronautical stations and aircraft stations may utilise 8.33 kHz channel spacing for non secure communications requirements
EU6	The mobile-satellite service is limited to low earth orbiting satellites
EU7	This band can also be used by low capacity fixed links in rural areas on a national basis. These links need to be coordinated with mobile service and require full protection.
EU8	Any use of low capacity fixed links shall be avoided in areas where such use might cause harmful interference to the maritime mobile VHF radiocommunication service
EU9	This band is included in the Regional Radio Conference planned for 2004/2006 for the revision of the European Broadcasting Agreement, Stockholm 1961
EU10	The mobile service in the harmonised military band 225 - 400 MHz generally comprises land, air maritime and satellite mobile applications
EU12	The applicable RR S5 footnotes remain in force. Administrations are however urged to aim for the fullest possible harmonisation with the ITU Table of Allocations and ECA
EU13	CEPT Administrations are urged to take all practical steps to clear the band 645-960 MHz of the assignments to the aeronautical radionavigation service by the year 2008.
EU14	Radiolocation limited to military requirements for naval ship borne radars
EU15	In the frequency band 1350-2690 MHz tactical radio relay systems should be capable of tuning over the full range of this band. Requirements for tactical radio relay should be met from the following sub-bands: 1350–1400 MHz; 1427–1452 MHz; 1492–1525 MHz; 1660–1670 MHz; 1675–1710 MHz; 1785–1800 MHz; 2025–2110 MHz; 2200–2290 MHz; 2520–2575 MHz; 2615–2670 MHz. The common requirement of 2 x 45 MHz for tactical radio relay for cross/near border operations and exercises should be met from 2025-2110 MHz and 2200-2290 MHz and in particular the bands 2025-2070/2200-2245 MHz
EU15A	Use of the band by the mobile service is limited to tactical radio relay applications
EU16	On the introduction of IMT-2000, the fixed service will become secondary in appropriate parts of the band
EU16A	Use of the band by the mobile service is limited to tactical radio relay and SAP/SAB applications
EU17	In the sub-bands 3400 - 3410 MHz, 5660 - 5670 MHz, 10.36 - 10.37 GHz, 10.45 - 10.46 GHz the amateur service operates on a secondary basis. In making assignments to other services, CEPT administrations are requested wherever possible to maintain these sub-bands in such a way as to facilitate the reception of amateur emissions with minimal power flux densities.
EU17A	Use of the band by the mobile service is limited to SAP/SAB applications
EU18	This aeronautical radionavigation band shall be subject to further study to ascertain future requirements and developments.
EU19	This band is allocated to the radio astronomy service. CEPT administrations are urged to take all practicable steps to protect the radio astronomy service from harmful interference. Emissions from space or airborne stations in this and adjacent bands can cause serious harmful interference
EU20	This fixed service band is designated for common use by civil and non civil users. Any user priorities in respect of preferred channels or sub-bands are to be determined after discussions between interested parties
EU21	Not used
EU22	The band 5250 - 5850 MHz is utilised for a variety of radiodetermination applications falling within the radionavigation and radiolocation services. This band will be subject to further detailed consideration.

EU23	In the sub-bands 5660 - 5670 MHz (earth to space), 5830 - 5850 MHz (space to earth) and 10.45 - 10.50 GHz the amateur-satellite additionally operates on a secondary and non interference basis to other services. In making assignments to other services, CEPT administrations are requested wherever possible to maintain these allocations in such a way as to facilitate the reception of amateur emissions with minimal power flux densities.
EU24	The band 8500 - 10000 MHz is utilised for a variety of radiodetermination applications falling within the radionavigation and radiolocation services. This band will be subject to further detailed consideration in conjunction with the band 5250 - 5850 MHz (see EU20).
EU25	Not used.
EU26	The band 13.25 - 14.0 GHz is utilised for a variety of radiodetermination applications falling within the radionavigation and radiolocation services. This band will be subject to further detailed consideration
EU27	A frequency band that is in general military use in Europe and identified for major military utilisation in the ECA. Such a frequency band forms a basis for military use and planning. The band can be shared between civil and military users according to national requirements and legislation
EU28	CEPT administrations shall not deploy new fixed service systems in the band 11.7-12.5 GHz (ERC DEC (00) 08)
EU29	The frequency bands 890-915/935-960 MHz, 880-890/925-935 MHz and 1710-1785/1805-1880 MHz are reserved for public cellular mobile use only. Other services such as the fixed service should only be allowed in the above bands where coexistence with public mobile systems is possible i.e. in sparsely populated or rural areas where the frequency band is not needed for mobile cellular systems
EU30	National administrations should consider co-ordination zones around the EISCAT sites when using the band 925-935 MHz for mobile services including international planning for military services. Short Range Devices should not use this band.
EU31	The band 440-470 MHz is the tuning range for Private Wide Area Paging (PWAP)
EU32	The bands 880 - 915 MHz and 925 - 960 MHz are currently used for GSM (2nd generation terrestrial mobile system) in most CEPT member countries and are expected to be used by UMTS/IMT-2000 (3rd generation terrestrial mobile system) only in the longer term after the additional spectrum at 2.5 GHz has been utilised
EU33	RR 5.384A identifies the band 1710 – 1885 MHz, RR 5.388 identifies the bands 1885 – 2025 MHz and 2110 – 2200 MHz for IMT-2000, however the bands 1710 - 1785 MHz and 1805 - 1880 MHz are currently used for GSM (2nd generation terrestrial mobile system), and the band 1880 – 1900 MHz is currently used for DECT applications in most CEPT member countries. These bands are generally expected to be used by UMTS/IMT-2000 (3rd generation terrestrial mobile system) after the additional spectrum at 2.5 GHz has been utilized for UMTS/IMT-2000, subject to market demands and national licensing schemes
EU34	Parts of the bands 450-457.5/460-467.5 MHz may also be used for existing and evolving public cellular networks on a national basis

Relevant CEPT ECC/ERC Decisions and Recommendations

ECCERC document	ECCERC document title
ECC DEC (01)02	CT2 applications in 900 MHz
ECC DEC (02)01	RTTT
ECC DEC (02)03	Narrow Band Digital Land Mobile PMR/PAMR
ECC DEC (02)04	Terrestrial (fixed service/broadcasting service) systems and uncoordinated Earth stations in the fixed satellite service and broadcasting-satellite service (space to Earth) in the band 40.5 – 42.5 GHz
ECC DEC (02)05	Frequency bands for railway purposes 876-880/921-925 MHz
ECC DEC (02)06	UMTS/IMT-2000 in the band 2500-2690 MHz
ECC DEC (02)07	Harmonised use of 1670-1675/1800-1805 MHz withdrawal of teh ERC Decision (92)01 TFTS
ERC DEC (00)01	Frequency bands for UMTS extending ERC DEC (97)07
ERC DEC (00)02	37.5-40.5 GHz for Fixed and Fixed Satellite Service
ERC DEC (00)07	Shared use of 17.7-19.7 GHz for Fixed and Fixed Satellite Service
ERC DEC (00)08	Use of 10.7-12.5 GHz by the Fixed and Broadcasting-satellite/Fixed-satellite service
ERC DEC (00)09	Use of 27.5-29.5 GHz by the Fixed and Fixed Satellite Service
ERC DEC (01)01	Non-specific SRD in 6765-6795 kHz and 13.553-13.567 MHz
ERC DEC (01)02	Non-specific SRD in 26.957-27.283 MHz
ERC DEC (01)03	Non-specific SRD in 40.660-40.700 MHz
ERC DEC (01)04	Non-specific SRD in 868-868.6 MHz, 868.7-869.2 MHz, 869.4-869.65 MHz and 869.7-870 MHz
ERC DEC (01)05	Non-specific SRD in 2400-2483.5 MHz
ERC DEC (01)06	Non-specific SRD in 5725-5875 MHz
ERC DEC (01)07	Radio-LAN SRDs in 2400-2483.5 MHz
ERC DEC (01)08	Movement Detection and Alert SRDs in 2400-2483.5 MHz
ERC DEC (01)09	Alarm SRDs in 868.6-868.7 MHz,
ERC DEC (01)10	Model control sRDs in 26.995, 27.045, 27.095, 27.145 and 27.195 MHz
ERC DEC (01)11	Flying Model control in 34.995-35.225 MHz
ERC DEC (01)12	Model control in 40.665, 40.675, 40.685 and 40.695 MHz
ERC DEC (01)17	Medical implant SRDs in 402-405 MHz
ERC DEC (01)18	Wireless Audio SRD Applications in 863-865 MHz
ERC DEC (01)19	DMO frequencies for emergency services
ERC DEC (01)20	Air-ground-Air (AGA) frequencies for emergency services
ERC DEC (01)21	DMO frequencies for digital land mobile systems
ERC DEC (94)01	Frequency bands for GSM systems
ERC DEC (94)02	Frequencies for ERMES
ERC DEC (94)03	Frequencies for DECT
ERC DEC (95)03	Frequency bands for DCS 1800
ERC DEC (96)01	Frequency bands for Emergency Services
ERC DEC (96)02	Frequency bands and implementation of standard for CEPT PR27 equipment
ERC DEC (96)04	Frequency bands for TETRA
ERC DEC (96)06	Harmonised frequency bands for Social Alarms
ERC DEC (97)02	Extended frequency bands for GSM
ERC DEC (97)03	S-PCS in 1610-1626.5 MHz, 2483.5-2500 MHz, 1980-2010 MHz and 2170-2200 MHz

ECCERC document	ECCERC document title
ERC DEC (97)04	Transitional arrangements for Fixed and Mobile-satellite service in 1980-2010 MHz and 2170-2200 MHz
ERC DEC (97)06	Harmonised frequency bands for Social Alarms
ERC DEC (97)07	Frequency bands for UMTS
ERC DEC (98)25	Harmonised frequency band for PMR446
ERC DEC (99)06	Harmonised introduction of S-PCS <1GHz
ERC DEC (99)15	Harmonised frequency band 40.5-43.5 GHz for MWS including MVDS
ERC DEC (99)17	Frequencies for Shipborne Automatic Identification System (AIS)
ERC DEC (99)23	Harmonised frequency bands for HIPERLANs
ERC DEC (99)25	Harmonised spectrum for UMTS in 1900-1980 MHz, 2010-2025 MHz and 2110-2170 MHz
ECC REC 01-04	Multimedia Wireless Systems in the band 40.5 - 43.5 GHz
ECC REC 02-06	Digital Fixed Services Systems operating in the frequency range 7125-8500 MHz
ERC REC 00-04	Meteor scatter applications
ERC REC 00-05	Fixed wireless access in 24.5-26.5 GHz
ERC REC 01-01	Border coordination of UMTS/IMT-2000 systems
ERC REC 01-02	Channel arrangement for digital fixed service in 31.8-33.4 GHz
ERC REC 12-02	Channel arrangement for 12.75-13.25 GHz
ERC REC 12-03	Channel arrangement for 17.7-19.7 GHz
ERC REC 12-05	Channel arrangement for 10.0-10.68 GHz
ERC REC 12-06	Channel arrangement for 10.7-11.7 GHz
ERC REC 12-07	Channel arrangement for 15.23-15.35 GHz
ERC REC 12-08	Channel arrangement for 3600-4200 MHz
ERC REC 12-09	Channel arrangement for 57.0-59.0 GHz
ERC REC 12-10	Channel arrangement for 48.5-50.2 GHz
ERC REC 12-11	Channel arrangement for 51.4-52.6 GHz
ERC REC 12-12	Channel arrangement for 55.78-57.0 GHz
ERC REC 13-03	Use of the band 14.0-14.5 GHz for VSAT and SNG
ERC REC 13-04	Fixed Wireless Access in 3-29.5 GHz
ERC REC 14-01	Channel arrangement for 5925-6425 MHz
ERC REC 14-02	Channel arrangement for 6425-7125 MHz
ERC REC 14-03	Channel arrangement for 3400-3600 MHz
ERC REC 25-10	Frequencies for ENG/OB video links
ERC REC 62-01	135.7-137.8 kHz for the Amateur Service
ERC REC 62-02	Civil and Military Airborne Telemetry applications
ERC REC 70-03	ERC Recommendation relating to the use of Short Range Devices (SRD)
ERC REC T/R 02-02	Harmonised frequency band for the emergency services
ERC REC T/R 12-01	Channel arrangements for analogue and digital terrestrial fixed systems in 37-39.5 GHz
ERC REC T/R 13-01	Channel arrangement for fixed services in the range 1-3 GHz
ERC REC T/R 13-02	Channel arrangement for fixed services in the range 22.0-29.5 GHz
ERC REC T/R 22-01	Frequencies likely to be allocated to international railways
ERC REC T/R 22-03	Terrestrial fixed and mobile systems in 54.25-66 GHz
ERC REC T/R 22-05	Frequencies for mobile digital trunked radio systems

ERC REC T/R 22-06	HIPERLANs in the 5 GHz and 17 GHz frequency range
ERC REC T/R 22-07	Frequency bands for DCS1800
ERC REC T/R 25-05	Broadcasting and Land Mobile Service planning parameters for TV band I and III
ERC REC T/R 25-06	Broadcasting and Land Mobile Service planning parameters for TV band I and III
ERC REC T/R 25-08	Land Mobile Service in the range 29.7 - 960 MHz
ERC REC T/R 25-09	Frequencies in the 900 MHz band for railways
ERC REC T/R 32-02	On-board communication stations
ERC REC T/R 42-01	Frequencies for TFTS

Standard name	*Short Standard title*	*Harmonised Standard Art 3.2 of RTTE Directive*
EN 300 065	Navtex	EN 300 065-2
EN 300 086	PMR analogue speech	EN 300 082-2
EN 300 113	PMR Data and speech	EN 300 113-2
EN 300 135	CB - FM	EN 300 135-2
EN 300 152	EPIRB	EN 300 152-2
EN 300 162	Maritime mobile VHF	EN 300 162-2
EN 300 219	PMR internal antenna analogue speech	EN 300 219-2
EN 300 220	SRD 25 - 1000 MHz	EN 300 220-3
EN 300 224	On site paging	EN 300 224-2
EN 300 296	PMRintegral antenna analogue speech	EN 300 296-2
EN 300 328	RLANs	EN 300 328-2
EN 300 330	SRD 9 kHz - 25 MHz	EN 300 330-2
EN 300 341	PMR specific response	EN 300 341-2
EN 300 390	PMR data and speech integral antenna	EN 300 390-2
EN 300 422	Radio microphones	EN 300 442-2
EN 300 433	CB DSB and SSB	EN 300 433-2
EN 300 440	SRD 1-40 GHz	EN 300 440-2
EN 300 471	Access protocol	EN 300 471-2
EN 300 674	RTTT in 5.8 GHz	EN 300 674-2
EN 300 698	Maritime inland waterways	EN 300 698-3
EN 300 718	Avalanche Beacons	EN 300 718-2
EN 300 720	UHF on bord communication	EN 300 720-2
EN 300 761	AVI for railways	EN 300 761-2
EN 300 836	HIPERLANs	EN 300 836
EN 301 025	DCS VHF bands	EN 301 025-2
EN 301 091	RTTT in 76-77 GHz	EN 301 091-2
EN 301 178	Portable maritime non GMDSS	EN 301 178-2
EN 301 357	SRD Audio in 863-865 MHz	EN 301 357-2
EN 301 360	FSS - SIT	EN 301 360-2
EN 301 406	DECT	EN 301 406
EN 301 419	GSM	EN 301 502-3

Standard name	*Short Standard title*	*Harmonised Standard Art 3.2 of RTTE Directive*
EN 301 423	TFTS	EN 301 423
EN 301 426	LMES in 1.5/1.6 GHz	EN 301 426
EN 301 427	LMES in 11/12/14 GHz	EN 301 427
EN 301 428	VSAT in 11/12/14 GHz	EN 301 428
EN 301 430	SNG in 11/12/14 GHz	EN 301 430
EN 301 441	S-PCN in 1.6/2.4 GHz	EN 301 441
EN 301 442	S-PCN in 2 GHz	EN 301 442
EN 301 443	VSAT in 4 and 6 GHz	EN 301 443
EN 301 444	LMES in 1.5/1.6 GHz	EN 301 444
EN 301 459	SIT/SUT in 29.5-30 GHz	EN 301 459
EN 301 502	GSM base stations an repeater	EN 301 502
EN 301 511	GSM/DCS mobile stations	EN 301 511
EN 301 681	mobile earth st S-PCN 1.5/1.6 GHz	EN 301 681
EN 301 721	MES LEO below 1 GHz	EN 301 721
EN 301 751	Point to point digital fixed links	EN 301 751
EN 301 753	Point to multipoint digital fixed links	EN 301 753
EN 301 783	Amateur radio equipment	EN 301 783-2
EN 301 796	CT1 and CT1+	EN 301 796
EN 301 797	CT2	EN 301 797
EN 301 840	Radio microphones in 1785-1800 MHz	EN 301 840
EN 303 035	TETRA	EN 303 035-2

LIST OF ABBREVIATIONS AS USED IN THIS DOCUMENT

AGA	- Air Ground Air
BSS	- Broadcasting Satellite Service
CEPT	- European Conference of Postal and Telecommunications Administrations
CRS	- Central Radio Station
DCS 1800	- Digital Communication System
DEC	- ERC Decision
DECT	- Digital European Cordless Telecommunication System
DME	- Distance Measuring Equipment
DMO	- Direct Mode Operation
DSI	- Detailed Spectrum Investigation
DVB-T	- Terrestrial Digital Video Broadcasting
ECA	- European Common Allocation
ECC	- Electronic Communications Committee
ECP	- European Common Proposal
EESS	- Earth Exploration-Satellite Service
EGSM	- Extended GSM
ENG	- Electronic News Gathering
EPIRB	- Emergency Position-Indicating Radiobeacon
ERC	- European Radiocommunications Committee
ERMES	- European Radio Messaging System
ERO	- European Radiocommunications Office
FB	- Base station (in a mobile radio system)
FDD	- Frequency Division Duplex
FM	- Frequency modulation
FSS	- Fixed Satellite Service
FWA	- Fixed Wireless Access
GMDSS	- Global Maritime Distress and Safety System
GNSS	- Global Navigation Satellite System
GSM	- Global System for Mobile Communications
HAPS	- High Altitude Platform Systems
HDTV	- High Definition Television
HIPERLAN	- High Performance Radio Local Area Network
IBCN	- Integrated Broadband Communications Network
ILS	- Instrument Landing System
UMTS/IMT-2000	- International Mobile Telecommunications
ISM	- Industrial, Scientific and Medical applications
ITU	- International Telecommunication Union
JTIDS	- Joint Tactical Information Distribution System
MIDS	- Multifunctional Information Distribution System

ML	- Mobile station (in a mobile radio system)
MLS	- Microwave Landing System
MSI	- Maritime Safety Information
MSS	- Mobile Satellite Service
MWS	- Multimedia Wireless Systems
NATO	- North Atlantic Treaty Organisation
NGSO	- Non-geostationary Satellite Orbit
OB	- Outside Broadcasting
OR	- Off-Route
PAMR	- Public Access Mobile Radio (PMR)
PMR	- Professional Mobile Radio, Private Mobile Radio
R	- Route
RA	- Radio Astronomy
SAB	- Services Ancillary to Broadcasting
SAP	- Services Ancillary to Programming
S-PCS	- Satellite Personal Communication System
TETRA	- Trans European Trunked Radio
RFID	- Radio Frequency Identification systems
RLAN	- Radio Local Area Network
RR	- Radio Regulations
RTTT	- Road Transport & Traffic Telematics
SNG	- Satellite News Gathering
SRD	- Short Range Devices
SSR	- Secondary Surveillance Radar
T-DAB	- Terrestrial Digital Audio Broadcasting
TACAN	- Tactical Air Navigation System
TFTS	- Terrestrial Flight Telecommunications System
TS	- Terminal Station
UMTS/IMT-2000	- International Mobile Telecommunications
VLBI	- Very Long Baseline Interferometry (Radio Astronomy)
VOR	- VHF Omni-directional Range
VTS	- Vessel Traffic System (radar)
VSAT	- Very Small Aperture Terminal
WARC-92	- World Administrative Radio Conference 1992
WRC(95)	- World Radiocommunication Conference 1995 (or other year)