

**Electromagnetic compatibility
and Radio spectrum Matters (ERM);
Use of radio frequency spectrum
by equipment meeting ETSI standards**



Reference

RTR/ERM-RM-032

Keywords

Aeronautical, amateur, broadcasting, DECT, DRRS, DSB, DVB, EHF, emission, LF, maritime, MF, mobile, navigation, PMR, radio, satellite, SHF, terrestrial, transmission, UHF, VHF, VLF

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Foreword

This Technical Report (TR) has been produced by ETSI Technical Committee Electromagnetic compatibility and Radio spectrum Matters (ERM).

This deliverable is related to CEPT/ERC Report 25 [i.1] and the ERO Frequency Information System [i.2].

The CEPT/ERC Report 25 [i.1] contains a European Table of frequency allocations and utilisations for the frequency band 9 kHz to 1000 GHz, which is commonly known as the European Common Allocation (ECA) table. It is reviewed periodically and revised as necessary by the ECC taking into account the results of World Radio Conferences and other relevant developments.

The ERO Frequency Information System (EFIS, see <http://www.efis.dk>) is a database whose purpose is:

- to give CEPT a tool to illustrate the extent of harmonisation within Europe;
- to allow administrations to make rapid searches and comparisons in spectrum utilisation information relating to other CEPT countries; and
- to meet the European Commission and industry requirements that have been made known to CEPT on many occasions.

The ECA table is also accessible via EFIS.

ETSI standards are listed in both EFIS and CEPT/ERC Report 25 [i.1]. The information provided in the present document is intended to be sent to the ERO and CEPT to help them in updating the ECA table.

The present document follows a different format than TR 102 137 (V1.1.1) [i.3]. The largest difference is that TR 102 137 (V1.1.1) [i.3] focused on the European commonly allocated frequencies and the standards matching those frequencies and applications, while the present document focuses on the ETSI deliverables and the applications and frequencies covered by them. Note that the information within the ETSI deliverables themselves remains leading over the information contained in the present document.

A summary of the significant differences between TR 102 137 (V1.1.1) [i.3] and the present document is given in table 1.

Table 1: Differences between versions 1.1.1 and 1.2.1 of TR 102 137

aspect	TR 102 137 V1.1.1 [i.3]	Present document
ETSI deliverable	Primarily Harmonized Standards are included.	The Harmonized Standards are included as well as other documents, such as System Reference documents.
Frequency bands	The presentation of the frequency bands is the same as in an earlier version of CEPT/ERC Report 25 [i.1].	The frequency bands are given as in the scope of the ETSI deliverable or tables there within. For ETSI deliverables with broad frequency ranges (i.e. the so-called "generic standards"), the specific frequency ranges given in the ECA table are also indicated.
European Common Allocation	The European Common Allocation is presented as in an earlier version of CEPT/ERC Report 25 [i.1].	Some of the ECA information is included in the present document in cases where it facilitates the synchronization between TR 102 137 and the ECA table.
Application	The application column is named "Use (in ETSI)" and does not necessarily use the same terminology as EFIS.	The terminology from EFIS is used as far as possible. This helps to facilitate the synchronization of the information between ETSI and CEPT.
ETSI deliverable	The different parts of a multipart deliverable are not shown.	The different parts of a multipart deliverable are shown to help distinguish between those parts of the multipart which are a Harmonized Standard. Additionally the parts of a multipart standard may address different frequency bands (e.g. EN 301 908 [i.6]).
R&TTE	The entries for the "Harmonised Standard (RTTE)" column are "OJEC", "DRAFT", or "NO".	The entries for the R&TTE column are "article 3.2", "article 3.3", or "no". A draft is indicated in the ETSI deliverable name by either "pr" (preliminary) or with the work item number.
Contact	The name of the Rapporteur is given in the "Contact" column.	This information is not included since it may change often and is also included in the ETSI Work Programme.
Notes	The CEPT deliverables were often indicated in the "Notes" column.	Information on the CEPT deliverables is not included. It is available in the ECA table.
Order of the columns	The order of the columns is very similar to that in CEPT/ERC Report 25 [i.1]. The focus is on the frequency and the European Common Allocation.	The columns are arranged so as to focus on the standard.
Entries in a cell	A cell may contain multiple entries (e.g. different standards).	Each cell only contains one entry. This facilitates searching in the table.

Introduction

The number of ETSI deliverables related to radio frequencies is very large. The present document has been developed to provide an overview of ETSI deliverables with applications and frequency bands. It may help:

- guide manufacturers to the appropriate Harmonized Standard under the R&TTE Directive
- provide parameters for compatibility/sharing studies
- increase understanding and awareness of the ETSI deliverables
- in the update of standards in CEPT/ERC Report 25 [i.1].

It should be noted that the radio frequency spectrum is managed on a national basis, and the national Administration concerned should be approached for the regulations in force in a particular territory.

1 Scope

The present document lists per ETSI deliverable the application, frequency bands, and article of Directive 1999/5/EC [i.9] covered.

All of the ETSI non-EMC standards from the Official Journal of the European Union 3 June 2008 publication of titles and references of Harmonized Standards under the Directive 1999/5/EC [i.4] (except EN 301 796 [i.5] on CT1 and CT1+ equipment) as well as some other ETSI deliverables are included.

2 References

References are either specific (identified by date of publication and/or edition number or version number) or non-specific.

- For a specific reference, subsequent revisions do not apply.
- Non-specific reference may be made only to a complete document or a part thereof and only in the following cases:
 - if it is accepted that it will be possible to use all future changes of the referenced document for the purposes of the referring document;
 - for informative references.

Referenced documents which are not found to be publicly available in the expected location might be found at <http://docbox.etsi.org/Reference>.

For online referenced documents, information sufficient to identify and locate the source shall be provided. Preferably, the primary source of the referenced document should be cited, in order to ensure traceability. Furthermore, the reference should, as far as possible, remain valid for the expected life of the document. The reference shall include the method of access to the referenced document and the full network address, with the same punctuation and use of upper case and lower case letters.

NOTE: While any hyperlinks included in this clause were valid at the time of publication ETSI cannot guarantee their long term validity.

2.1 Normative references

The following referenced documents are indispensable for the application of the present document. For dated references, only the edition cited applies. For non-specific references, the latest edition of the referenced document (including any amendments) applies.

Not applicable.

2.2 Informative references

The following referenced documents are not essential to the use of the present document but they assist the user with regard to a particular subject area. For non-specific references, the latest version of the referenced document (including any amendments) applies.

- [i.1] draft CEPT/ERC Report 25 (Lisboa 02 - Dublin 03 - Kusadasi 04 - Copenhagen 04 - Nice 07, [Baku 08]): "The European table of frequency allocations and utilisations in the frequency range 9 kHz to 1000 GHz".
- [i.2] ERO Frequency Information System, <http://www.efis.dk/search/general>.
- [i.3] ETSI TR 102 137 (V1.1.1): "Electromagnetic compatibility and Radio spectrum Matters (ERM); Use of Radio Frequency Spectrum by Equipment meeting ETSI Standards".

- [i.4] Official Journal of the European Union, C 136/1, 3 June 2008: "Commission communication in the framework of the implementation of the Directive 1999/5/EC of the European Parliament and of the Council of 9 March 1999 on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity; Publication of titles and references of Harmonized Standards under the directive".
- [i.5] ETSI EN 301 796: "Electromagnetic compatibility and Radio spectrum Matters (ERM); harmonized EN for CT1 and CT1+ cordless telephone equipment covering essential requirements under Article 3.2 of the R&TTE Directive".
- [i.6] ETSI EN 301 908 (all parts): "Electromagnetic compatibility and Radio spectrum Matters (ERM); Base Stations (BS), Repeaters and User Equipment (UE) for IMT-2000 Third-Generation cellular networks".
- [i.7] CEPT/ECC Decision (01)03 with Annex 1 revised Oct. 2003 and Annex 2 revised June 2005, June 2007 and Annex 3 revised Sept. 2004, June 2007: ECC Decision of 15 November 2001 on ERO Frequency Information System (EFIS).
- [i.8] ETSI EN 301 502: "Harmonized EN for Global System for Mobile communications (GSM); Base Station and Repeater equipment covering essential requirements under article 3.2 of the R&TTE directive (GSM 13.21 version 8.1.2 Release 1999)".
- [i.9] Directive 1999/5/EC of the European Parliament and of the Council of 9 March 1999 on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity (R&TTE Directive).
- [i.10] ETSI EN 300 086: "Electromagnetic compatibility and Radio spectrum Matters (ERM); Land Mobile Service; Radio equipment with an internal or external RF connector intended primarily for analogue speech".
- [i.11] ETSI draft ETSI EN 302 567: "Broadband Radio Access Networks (BRAN); 60 GHz Multiple-Gigabit WAS/RLAN Systems; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive".
- [i.12] ETSI EN 301 908-10: "Electromagnetic compatibility and Radio spectrum Matters (ERM); Base Stations (BS), Repeaters and User Equipment (UE) for IMT-2000 Third-Generation cellular networks; Part 10: Harmonized EN for IMT-2000, FDMA/TDMA (DECT) covering essential requirements of article 3.2 of the R&TTE Directive".
- [i.13] ETSI EN 302 480: "Electromagnetic compatibility and Radio spectrum Matters (ERM); Harmonized EN for the GSM onboard aircraft system covering the essential requirements of Article 3.2 of the R&TTE Directive".
- [i.14] ETSI draft ETSI EN 302 625: "Electromagnetic compatibility and Radio spectrum Matters (ERM); 5 GHz Broadband Disaster Relief applications (BBDR); Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive".
- [i.15] ETSI TR 102 485: "Electromagnetic compatibility and Radio spectrum Matters (ERM); Technical characteristics for Broadband Disaster Relief applications (BB-DR) for emergency services in disaster situations; System Reference Document".
- [i.16] ETSI EN 302 288: "Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices; Road Transport and Traffic Telematics (RTTT); Short range radar equipment operating in the 24 GHz range".
- [i.17] ETSI draft ETSI EN 302 264 (both parts): "Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices; Road Transport and Traffic Telematics (RTTT); Short Range Radar equipment operating in the 77 to 81 GHz band".
- [i.18] ETSI TR 101 983: "ElectroMagnetic Compatibility and Radio Spectrum Matters (ERM); Radio equipment to be used in the 76 GHz to 77 GHz band; System Reference Document for Short-Range Radar to be fitted on road infrastructure".

- [i.19] ETSI TR 102 263: "Electromagnetic compatibility and Radio spectrum Matters (ERM); Road Transport and Traffic Telematics (RTTT); Radio equipment to be used in the 77 GHz to 81 GHz band; System Reference Document for automotive collision warning Short Range Radar".
- [i.20] ETSI EN 302 536 (both parts): "Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment in the frequency range 315 kHz to 600 kHz".
- [i.21] ETSI EN 302 537 (both parts): "Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Ultra Low Power Medical Data Service Systems operating in the frequency range 401 MHz to 402 MHz and 405 MHz to 406 MHz".
- [i.22] ETSI TR 102 315: "Electromagnetic compatibility and Radio spectrum Matters (ERM); Ultra Low Power Animal Implant Devices (ULP-AID) operating in the frequency bands: 1 MHz to 3 MHz, 11,5 MHz to 12,5 MHz, 13,5 MHz to 14,5 MHz, 15,5 MHz to 16,5 MHz; System reference document".
- [i.23] ETSI TR 102 316: "Electromagnetic Compatibility and Radio Spectrum Matters (ERM); Ultra Low Power Animal Implantable Devices (ULP-AID) operating in the frequency band 315 kHz to 600 kHz; System Reference Document".
- [i.24] ETSI draft ETSI EN 302 977: "Satellite Earth Stations and Systems (SES); Harmonised EN for Vehicle-Mounted Earth Stations (VMES) operating in the 12/14 GHz frequency bands covering essential requirements under article 3.2 of the R&TTE Directive".
- [i.25] ETSI EN 302 561: "Electromagnetic compatibility and Radio spectrum Matters (ERM); Land Mobile Service; Radio equipment using constant or non-constant envelope modulation operating in a channel bandwidth of 25 kHz, 50 kHz, 100 kHz or 150 kHz; Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive".
- [i.26] ETSI ES 202 239 : "Electromagnetic compatibility and Radio spectrum Matters (ERM); Wireless digital video links operating above 1,3 GHz; Specification of typical receiver performance parameters for spectrum planning".

3 Abbreviations

For the purposes of the present document, the abbreviations given in reference [i.1] and the following apply:

BBDR	Broad Band Disaster Relief
DECT	Digital Enhanced Cordless Telecommunication
ECA	European Common Allocation
EFIS	ERO Frequency Information System
EMC	ElectroMagnetic Compatibility
GSM	Global System for Mobile
IMT	International Mobile Telecommunications
MCA	Mobile Communication service on Aircraft
PMR	Professional Mobile Radio, Private Mobile Radio
SRR	Short Range Radar

4 Table of ETSI deliverables with applications and frequency bands

The Excel file (tr_102137v010201p0.xls contained in archive tr_102137v010201p0.zip), which accompanies the present document, contains two worksheets:

- a table of ETSI deliverables with applications and frequency bands. This is further described in clause 4.1.
- in the worksheet "Search", a search facility for finding standards overlapping an input frequency range. See the further description under clause 4.2.

4.1 Explanatory notes to the table

4.1.1 ETSI deliverable column

The ETSI deliverable column only includes deliverables with a relation to radio frequencies. All of the non-EMC standards from reference [i.4] (except EN 301 796 [i.5]) as well as some other ETSI deliverables are included.

Draft deliverables are indicated with "pr" (preliminary) before the number of the deliverable or with the ETSI work item number.

The different parts of a multipart deliverable are shown to help distinguish between those parts of the multipart which are or are not a Harmonized Standard. Additionally the parts of a multipart standard may address different frequency bands (e.g. EN 301 908 [i.6]).

4.1.2 Application column

The application covered by the ETSI deliverable is given in the column "Application".

The terminology from EFIS for applications given in reference [i.7] is used as far as possible. This facilitates the synchronization of the information between ETSI and CEPT.

There is currently a discrepancy between some of the "Major utilization" names in the CEPT/ERC Report 25 [i.1] and the "application" names in the EFIS database [i.2]. For example, CEPT/ERC Report 25 [i.1] uses "Wireless applications in Healthcare" for a frequency band whereas EFIS [i.2] uses "Medical implants". This difference in terminology is being discussed in the ERO and CEPT. Once the terminology is resolved, a fine tuning of the table in archive tr_102137v010201p0.zip may be needed.

Additionally, some application names, such as "UWB", are neither used in the table in CEPT/ERC Report 25 [i.1] nor in EFIS [i.2], but have been used in the present document, since they were necessary.

The EFIS application names are divided into three layers of detail. Wherever possible, the highest detail possible (i.e. layer 3) has been used in the present document. Note that the layer 3 detail may still not be sufficient to precisely specify the content of the standard (e.g. the different parts of EN 301 908 [i.6] are given the application "IMT" but they are actually a subset of IMT).

Note that it may occur that for a particular frequency band, the application in EFIS is different from the application in the present document. For example, the frequency band is available for an application in layer 2 while the ETSI deliverable addresses an application in layer 3 (which is narrower than layer 2).

4.1.3 Frequency band of scope columns

The frequency bands given in the scope of the ETSI deliverable or tables there within are indicated in the columns "lower frequency given in scope" plus "units" and "higher frequency given in scope" plus "units". Every frequency range is in a separate row in the table. Additionally columns have been provided with the frequency given in Hertz to facilitate searching, but these columns are hidden and need to be made visible if the user wishes to use them.

The presentation of the frequency bands has been adopted from the tables in the scope or main body of the ETSI deliverable, unless the ETSI group producing the deliverable has indicated otherwise. This may lead to some duplication of the frequency bands presented. For example in EN 301 502 [i.8], table 2 is given:

Table 2: Frequency bands for GSM Base Station System

	TX:	RX:
P-GSM900	935 MHz to 960 MHz	890 MHz to 915 MHz
E-GSM900	925 MHz to 960 MHz	880 MHz to 915 MHz
R-GSM900	921 MHz to 960 MHz	876 MHz to 915 MHz
DCS1800	1 805 MHz to 1 880 MHz	1 710 MHz to 1 785 MHz
GSM 450	460,4 MHz to 467,6 MHz	450,4 MHz to 457,6 MHz
GSM 480	488,8 MHz to 496 MHz	478,8 MHz to 486 MHz

All of the frequency bands in table 2 are included in the table in archive tr_102137v010201p0.zip.

4.1.4 Frequency band of ECA table columns

The scope of some ETSI deliverables covers a wide frequency ranges (e.g. some PMR standards), and the precise frequency is, for example, further specified in CEPT/ECC deliverables. For example, the scope of the standard EN 300 086 [i.10] covers the frequency range 30 MHz to 1 000 MHz. The CEPT/ERC Report 25 [i.1] includes EN 300 086 in the following frequencies:

Table 3: Frequencies included in CEPT/ERC Report 25 [i.1] for EN 300 086 [i.10]

Lower frequency	Higher frequency
30,01 MHz	40,66 MHz
40,7 MHz	74,8 MHz
75,2 MHz	87,5 MHz
146,0 MHz	156,0 MHz
157,45 MHz	160,6 MHz
160,975 MHz	161,475 MHz
162,05 MHz	174,0 MHz
406,1 MHz	430,0 MHz
440,0 MHz	470,0 MHz

For these ETSI deliverables with broad frequency ranges (i.e. the so-called "generic standards"), the specific frequency ranges given in the ECA table are indicated in the table in archive tr_102137v010201p0.zip with a lower and higher frequency. This facilitates connecting the ECA table to the relevant information in the present document.

These columns are not used for ETSI deliverables covering more specific frequencies (i.e. these columns are left empty in these cases).

4.1.5 R&TTE column

In the "R&TTE" column, the relationship between the ETSI deliverable and the R&TTE Directive [i.9] is given. If the ETSI deliverable is a Harmonized Standard covering an essential requirement of the R&TTE Directive [i.9], then the article of the essential requirement of the Directive 1999/5/EC [i.9] is given (e.g. "article 3.2", "article 3.3"). Otherwise "no" is given.

4.1.6 Notes column

The "Notes" column is available for any information which may be useful to the user; for example, the System Reference document related to a particular Harmonized Standard.

4.1.7 Group column

The "Group" column gives the ETSI group related to the ETSI deliverable. The group names have been presented the same as in the pull-down list in the "Advanced Search" facility of the ETSI Work Programme, except for the joint groups ERM/MSG-TFES and ERM/MSG-GSMOBA.

4.2 Search facilities

The data in the table of ETSI deliverables with applications and frequency bands can be filtered with the help of the auto-filters at the top row of the table. The use of the auto-filters follows the usual Excel rules.

Additionally a search facility for finding standards overlapping an input frequency range is given in the worksheet "Search". The user inputs the lower frequency of the range in the gray field under "lower frequency" (F1), the higher frequency of the range in the gray field under "higher frequency" (F2), the units of the frequency in the gray field under "units (kHz, MHz, GHz)", and presses the "Search" button.

Figure 1 depicts the frequency ranges of some deliverables and the input frequency range (F1 to F2).

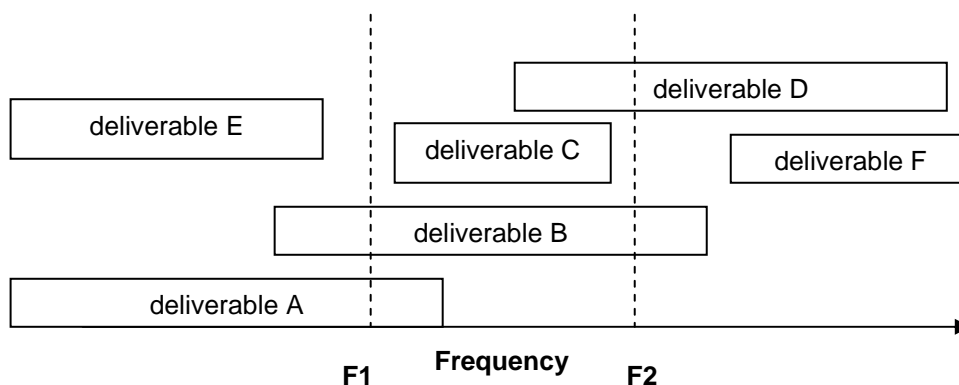


Figure 1: Depiction of the frequency ranges of the deliverables and the input frequency range

The search routine returns the deliverables which overlap the input frequency range (F1 to F2). In the example in figure 1, the search routine would display the deliverable A, B, C, and D. Deliverables E and F will not be displayed in the worksheet "Search" since they do not overlap the input frequency range F1 to F2.

Note that for the broad, so-called "generic" standards, the search facility uses the frequency range in the columns "frequency given in ECA table" rather than those in the "frequency given in scope" columns since it probably gives a more meaningful result since the "generic" standards are not used in many of the frequencies in their scope.

4.3 Synchronization procedure with the ECA table

The information provided in the present document is intended to be sent to the ERO and CEPT to help them in updating the ECA table.

Since the ECA table primarily contains Harmonized Standards under article 3.2 of the R&TTE Directive, the present document the column R&TTE should be set equal to "article 3.2" to select only those ETSI deliverables.

For a particular frequency band in the ECA table, the ETSI deliverables (probably) applicable will be those for which:

- the column R&TTE is set equal to "article 3.2", since the standards in the ECA table are primarily Harmonized Standards under article 3.2 of the R&TTE Directive;
- the applications of the ETSI deliverables are in the same EFIS application layer or in a lower (narrower) layer than the EFIS application name;
- the frequency of the ETSI deliverable scope overlaps with the frequencies in the ECA table.

4.4 Notes and possible items for revision in future versions

This clause lists a number of issues which may need attention in a future version of the present document.

4.4.1 Maritime standards

The entries for the maritime standards in the present document have not been checked by ERM-TG26, therefore updates to them may be expected.

4.4.2 Issues related to terminology of EFIS application layers

prEN 302 567 [i.11]: the terminology "FLANE" does not exist in the EFIS/ECA terminology. Either another term from ECC/DEC(01)03 [i.7] can be chosen or a proposal could be made to modify Annex 2 of ECC/DEC(01)03 [i.7]. This issue may be clarified as the ongoing work progresses in CEPT and ETSI.

EN 301 908-10 [i.12]: Due to the current structure of the layers in Annex 2 of ECC/DEC(01)03 [i.7], the application has been input as "IMT", and "DECT" has been included in the notes. Otherwise a computer program to attach the ETSI information to the CEPT information may miss this standard. It is expected that there will be a further update to the IMT terminology in reference [i.7], after which this item may need adjustment.

EN 302 480 [i.13]: The application has been set to "MCA", and "GSM on board aircraft" has been put in the notes. This has been done because the finest search layer of the EFIS application shows "MCA". "GSM on board aircraft" could possibly be a future "layer 4" search layer.

prEN 302 625 [i.14] and TR 102 485 [i.15]: It is not yet known what terminology CEPT plans to use for BBDR. It may be needed to update these entries after there is clarity on the CEPT terminology.

EN 302 288 [i.16], prEN 302 264 [i.17], TR 101 983 [i.18], TR 102 263 [i.19]: The CEPT/ERC Report 25 [i.1] under public consultation [i.1] currently uses both "Automotive SRR" (76 GHz) and "SRR" (24 GHz). The present document uses "SRR" to align with ECC/DEC(01)03 [i.7]. The final version of the CEPT/ERC Report 25 [i.1] will need to be checked, and if necessary, the present document may be amended.

EN 302 536 [i.20], EN 302 537 [i.21], TR 102 315 [i.22], TR 102 316 [i.23]: The terminology "Medical implants" is associated with these standards in the present document. EFIS uses the terminology "Medical implants" while ECA uses the terminology "Wireless applications in healthcare". When the usage of terminology is resolved in CEPT, then these entries can be revised if necessary.

prEN 302 977 [i.24]: The application name in the scope of the standard "Vehicle-Mounted Earth Stations" does not exist in the terminology in Annex 2 of ECC/DEC(01)03. Either another term from ECC/DEC(01)03 [i.7] can be chosen or a proposal could be made to modify Annex 2 of ECC/DEC(01)03 [i.7].

4.4.3 Issues related to frequencies

The work items DEN/ERM-TFES-002-13, -14, -15, -16, -17 were not added since the frequencies were not clearly indicated in the work items. At a later stage these work items could be added to a revision of the present document.

EN 302 561 [i.25]: The specific frequencies of the ECA table related to this standard can be added in a revision of the present document.

ES 202 239 [i.26]: A higher frequency given in the scope could be added.

prEN 302 977 [i.24]: The higher frequency given in the scope has not been filled in.

History

Document history		
V1.1.1	November 2002	Publication
V1.2.1	October 2008	Publication