



Electronic Communications Committee (ECC)
within the European Conference of Postal and Telecommunications Administrations (CEPT)

ECC RECOMMENDATION (02)03

EXCHANGE OF RADIO MONITORING INFORMATION USING ELECTRONIC MEANS IN COMMON MONITORING CAMPAIGNS

Recommendation adopted by the Working Group "Frequency Management" (WGFM)

INTRODUCTION

To support the Frequency Management especially in the WGFM and its Project Teams as well as in the preparatory work for WRC's by CPG and its Project Teams common CEPT monitoring campaigns are conducted by the radio monitoring service of the various CEPT Administrations. These campaigns have typically covered frequencies below 30 MHz, for which the report templates have been developed.

For such campaigns the capturing, verification and summarization of the results of the different participating Administrations should be supported by electronic means.

To safeguard that the results of different Administrations can be properly processed in an efficient way to a harmonized summary, to be prepared by the Administration which is the coordinator in a specific campaign, it is necessary to give strict rules to the participating Administrations and their radio monitoring staff.

"The European Conference of Postal and Telecommunications Administrations,

considering

- a) that data received in different formats produces excessive work for the coordinator,
- b) that translation of data between different data storage formats can introduce errors,
- c) that the structure of date and time formats can be misinterpreted by other countries,
- d) that various Administrations may use different capturing software,
- e) that flexible software allows importing and exporting of data in various data formats,
- f) that there exists a very extensive description of data elements in the Radio Data Dictionary (RDD) of the ITU,
- g) that there exists also similar needs in the framework of the Radio Regulations, Article 16, International Monitoring,

recommends

- 1) that to exchange data gathered in common monitoring campaigns the common file template (as shown in Annex 1) is circulated to participating countries by the campaign co-ordinator.
- 2) that participating countries should return this file to the co-ordinator with their results added but without any modification to the format.
- 3) that if a participating country cannot use the application software chosen by the campaign co-ordinator then they may use alternative software but should submit their results as a text file conforming to the format specified in Annex 2."

Please check the CEPT web site (<http://www.CEPT.org>) for the up to date position on the implementation of this and other ERC and ECC Recommendations.

Annex 1

COMMON FILE TEMPLATE

CAMPAIGN NAME

Monitoring Station Name		Date ¹	Observation period ²			Frequency ³ (kHz)	Identification	Country ⁴	Class of Station	Class of Emission	Occupied Bandwidth	QTE	Fieldstrength ⁵ (dBuV/m)	Remarks	
Name	Country		Start	End											
Baldock	G	25/12/01	< 09:00	13:30 >		16280.00	PBC34	HOL	FX	F1B	1K10	096	A	35	100 baud ITA2

¹ Example shown is in UK style. Please use the date style as defined by **your** computer's locale settings.

² The '<' symbol indicates that the emission was already present when the observations started – otherwise leave blank.

The '>' symbol indicates that the emission has remained active when the observations ceased – otherwise leave blank.

³ Example shown is in UK representation. Please use the number representation as defined by **your** computer's locale settings.

⁴ If a country is assumed but not confirmed then please add a question mark (e.g. HOL?)

⁵ This indication recognising that the fieldstrength in the HF range is varying very frequently on propagation effects. If the values varying very far from the indicated average value an indication should be given in the Remarks column (indicate fieldstrength from – to)

Annex 2

DESCRIPTION OF ALTERNATIVE DATA FORMAT

Administrations using application software other than the one chosen by the campaign co-ordinator should send their results using a tab or semi-colon (;) delimited ASCII text file conforming to the following data structure:

Data field	Data Format	Example	Description
Name of monitoring station	Text	Baldock	Name of monitoring station performing measurements
Country making the observations	Text	G	ITU Country Code of monitoring station performing measurements
Date of Observation	Text	25/12/01	Date in the format DD/MM/YY ¹
Type of start	Text	<	< means that emission was already active when the frequency was observed otherwise a blank entry indicates that the emission was heard to begin
Start of observation	Text	09:00	UTC time in the format HH:MM
End of observation	Text	13:30	UTC time in the format HH:MM
Type of ending	Text	>	> means that emission continues active although observations cease otherwise a blank entry indicates that the emission was heard to finish
Frequency	Numeric (5+2)	16280.00	Centre frequency of measured emission ² (kHz)
Identification of Station	Text	PBC34	Call Sign, expected location or other means of identification
Country	Text	HOL	ITU Country Code of the origin of the emission ³ .
Class of Station	Text	FX	Abbreviations as described in table 6A1 of the Preface to the IFL.
Class of Emission	Text	F1B	Basic Characteristics from RR, Appendix 1/Sub-Sections IIA and IIB
Occupied Bandwidth	Text	1K10	Basic Characteristics from RR, Appendix 1/Sub-Section I
QTE	Numeric (3)	96	Bearing of emission in degrees
Class of bearing	Text	A	Quality of bearing (A,B or C)
Fieldstrength	Numeric (3)	35	Fieldstrength ⁴ in dBµV/m
Remarks	Text	100 Baud ITA2	Additional useful information about the observed emission

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³ If a country is assumed but not confirmed then please add a question mark (e.g. HOL?)

⁴ This indication recognising that the fieldstrength in the HF range is varying very frequently on propagation effects. If the values varying very far from the indicated average value an indication should be given in the Remarks column (indicate fieldstrength from – to)

Data exchange file example:

Baldock;G;25/12/01;<;09:00;13:30;>;16280.00;PBC34;HOL;FX;F1B;1K10;096;A;35;100 baud ITA2
 Baldock;G;25/12/01;;18:30;20:30;>;12105.00;VoiceOf Greece;GRC;BC;A3EG;10K0;117;B;45;
 Baldock;G;25/12/01;<;21:30;22:30;>;6452.50;GYA;G;FC;F1C;1K10;240;A;40;Meteofax
 Baldock;G;26/12/01;<;08:30;09:30;;5650.40;Shanwick;IRL;FG;J3E;2K80;280;B;26;