

International Telecommunication Union

ITU-R
Radiocommunication Sector of ITU

Recommendation ITU-R SM.1393-0
(01/1999)

**Common formats for the exchange
of information between
monitoring stations**

SM Series
Spectrum management



Foreword

The role of the Radiocommunication Sector is to ensure the rational, equitable, efficient and economical use of the radio-frequency spectrum by all radiocommunication services, including satellite services, and carry out studies without limit of frequency range on the basis of which Recommendations are adopted.

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(Also available online at <http://www.itu.int/publ/R-REC/en>)

| Series | Title |
|------------|--|
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| BS | Broadcasting service (sound) |
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| F | Fixed service |
| M | Mobile, radiodetermination, amateur and related satellite services |
| P | Radiowave propagation |
| RA | Radio astronomy |
| RS | Remote sensing systems |
| S | Fixed-satellite service |
| SA | Space applications and meteorology |
| SF | Frequency sharing and coordination between fixed-satellite and fixed service systems |
| SM | Spectrum management |
| SNG | Satellite news gathering |
| TF | Time signals and frequency standards emissions |
| V | Vocabulary and related subjects |

Note: This ITU-R Recommendation was approved in English under the procedure detailed in Resolution ITU-R 1.

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RECOMMENDATION ITU-R SM.1393-0*

**COMMON FORMATS FOR THE EXCHANGE OF INFORMATION
BETWEEN MONITORING STATIONS**

(RR Article 16)

(1999)

Scope

Refined formats and procedures for Information exchange between monitoring stations is crucial. This Recommendation provides some guidance of common formats for the exchange of information between monitoring stations.

Keywords

Exchange format, monitoring station, common format

The ITU Radiocommunication Assembly,

considering

- a) the need to develop common and coordinated procedures and measurement techniques for monitoring within the ITU framework;
- b) the need for timely exchange of monitoring information between administrations;
- c) the need for a simple effective means of exchanging such information;
- d) the desirability of using current communication means;
- e) the advantages resulting from the use of a standard format,

noting

- a) that under the International Monitoring System, requests for monitoring information should be sent to the Centralising Office (see ITU document "List of Addresses") designated by each administration which then assembles the information for transmission back to the originating administration;
- b) that Article 16 of the Radio Regulations (RR) and Resolution ITU-R 23-1 (2000) reconfirmed the need to extend the International Monitoring System on a worldwide scale and that cooperation between monitoring stations of different administrations should be encouraged and improved with a view to exchanging monitoring information;
- c) that most monitoring stations have sufficient communication facilities available and in cases of responding to interference, the fastest methods of communication should be used,

recognizing

- a) there is a need for all monitoring stations to be able to request from one another clearly defined information;
- b) that such information could relate to emissions in any frequency band;
- c) that the need for the request could be to deal with urgent cases of interference to legitimate users of radio;
- d) that there will be occasions when monitoring stations have resource problems and will be unable, for example, to provide bearing requests on all emissions;
- e) that it will usually be self-evident why information is being requested, particularly in the case of the clearance of interference. There may, however, be occasions when the requesting station is asked to justify the reason for the information exchange and national security may prevent a full reply. In these circumstances administrations are asked to cooperate and understand the nature of the problem,

recommends

- 1** that common formats for exchange of information between monitoring stations be adopted as shown in Annex 1 (for communication via facsimile and e-mail) or Annex 2 (for communication via telex);

* Radiocommunication Study Group 1 made editorial amendments to this Recommendation in the years 2010 and 2019 in accordance with Resolution ITU-R 1.

2 that a request from one station to another for information relating to any emission should include the following details:

- a) measured frequency**;
- b) class of emission**;
- c) field strength, power flux-density or signal strength**;
- d) radio direction-finding (QTE) or estimated location;
- e) classification of bearing;
- f) bandwidth;
- g) other characteristics, e.g.:
 - need for observation (interference to whom);
 - target activity (times and dates active) and occupancy rate;
 - other modulation characteristics (modulation index, frequency deviation by type of modulation).

ANNEX 1

Facsimile/e-mail request for monitoring information

| | | |
|---|---|--|
| A. From (Monitoring station, country, telephone, and fax numbers) | B. (Name of operator) | C. (Date/time (UTC)) |
| D. (Destination address monitoring station and country) | E. Emission details provided: E1. (Measured frequency) E2. (Class of emission) E3. (Field strength/signal strength (QSA)) E4. (Bearing or estimated location) E5. (Classification of bearing) E6. (Bandwidth) E7. (Other Information e.g.: – need for observation (interference to whom) – target activity (times and dates active) – other modulation characteristics) | Please provide the following information: (✓) |

Reply to facsimile/e-mail request for monitoring information

| | | |
|--|------------------------------------|--|
| Date/Time (UTC) | | |
| E1. (Frequency measured) | E2. (Class of emission) | E3. (Field strength/signal strength measured (QSA)) |
| E4. (Bearing or estimated location) | E5. (Classification of bearing) | E6. (Bandwidth measured) |
| E7. (Other information) | | |

** These parameters are the minimum set of requirements that each monitoring station should be able to provide.

ANNEX 2

Telex request for monitoring information

From: (Monitoring station, country and operator)

To: (Monitoring station and country)

Date/time: (UTC)

Please monitor the emission, specified below and provide your observation against the headings marked (X):

- E1. () (Measured frequency)
- E2. () (Class of emission)
- E3. () (Field strength or signal strength (QSA))
- E4. () (Bearing or estimated location)
- E5. () (Classification of bearing)
- E6. () (Bandwidth)
- E7. () (Other information, e.g.:
 - need for observation (interference to whom);
 - target activity (times and dates active);
 - other modulation characteristics.)

Telex reply to request for measurements

From: (Monitoring station and country)

To: (Monitoring station and country)

Date/time: (UTC)

In reply to your request for information, the following parameters for your emission of interest have been observed and measured:

- E1. (Measured frequency)
 - E2. (Class of emission)
 - E3. (Field strength or signal strength (QSA))
 - E4. (Bearing or estimated location)
 - E5. (Classification of bearing)
 - E6. (Bandwidth measured)
 - E7. (Other measurements (specified by requester))
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