

## RESOLUTION ITU-R 21-3

**Software programs for radio-frequency  
spectrum management**

(1986-1990-1997-2000-2003)

The ITU Radiocommunication Assembly,

*considering*

- a) that many administrations and organizations create, use and exchange various software programs for radio-frequency spectrum management;
- b) that all administrations and organizations would benefit from the free exchange of these programs, particularly if procedures are employed that enable them to be used with computers that are universally available to the maximum possible extent;
- c) that some software programs have already been offered for such an exchange and are described in the ITU-R catalogue of software for radio spectrum management and made available through the Radiocommunication Bureau (BR),

*noting*

- a) Resolution No. 7 (WARC-79) relating to the development of national radio-frequency management,

*resolves*

- 1** that administrations and other participants in the Radiocommunication Study Groups work should be encouraged to submit their radio-frequency spectrum management software programs in accordance with Annex 1;
- 2** that the Director, BR, should be requested to:
  - 2.1** invite administrations and organizations which have radio-frequency spectrum management software programs to consider the possibility of making them available to other parties through the BR in a format that is compatible with computers to the maximum possible extent;
  - 2.2** distribute, free of charge, by means of the Radiocommunication Study Group 1 website the software programs that have been submitted;
  - 2.3** distribute, as requested, the software programs that have been made available, in the form they were received and without review with minimum administrative cost;
  - 2.4** transfer radio-frequency spectrum management software programs to Radiocommunication Study Group 1 for review and to examine them for their adequacy of documentation, and correctness;
  - 2.5** make arrangements for the BR to provide advice to the administrations that have little or no computer personnel or expertise with problems that may arise with their installation and use of these software programs on microcomputers.

## Annex 1

### Information for the submission of software programs

- 1 The software program should be submitted on a data storage medium in current use by the ITU-R. Floppy disks, CD-ROMs, e-mail or websites may be used.
  - 2 The program should not be copy protected.
  - 3 The documentation should preferably include:
    - description of the engineering method used in the program and applicable limitations,
    - the users' manual,
    - samples of typical input data and expected output data to demonstrate operation of the program,
    - the program documentation to permit maintenance of the code,
    - inventory of data elements used in the program,
    - information about the computer hardware and additional software packages needed to run the program.
  - 4 Summary information about the software program should contain:
    - title of the program,
    - sub-title of the program if any,
    - submitter/source address, telephone and e-mail,
    - description of the program, with indication of the documentation's language,
    - programming language and preferably source code,
    - mode of operation,
    - hardware and software requirement (i.e. monitor, printer, memory, storage capacity, RAM), operating system,
    - input requirements, including data file(s),
    - auxiliary data file(s),
    - data output,
    - output medium,
    - date of last revision,
    - references.
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