Germany

Germany

**FOCAL POINT REGARDING CORRESPONDENCE ON THIS QUESTIONNAIRE
(PARTS I AND II)**

– 2 –

1. Mr./Ms   Wolko   Bernd-Dieter

         Family Name   First Name

2. Country   Germany

3. Name of the Administration/   Regulatory Authority for Telecommunications and
    Organisation   Posts (RegTP)

4. Title   Administrative Officer

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                   Canisiusstrasse 21

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*To be returned no later than **31 January 2000** to:*
ITU-D Study Groups Secretariat
Telecommunication Development Bureau
Fax: +41 22 730 54 84
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QUESTIONNAIRE - PART II

(To be completed by Administrations only)

General Questions on National Spectrum Management

Describe succinctly the problems that your administration is currently experiencing in national spectrum management (for example subject areas in national spectrum management).

Country   Germany

Focal point   Regulatory Authority for Telecommunications and Posts (RegTP)

The following general questions on national spectrum management are based in part on the functional requirements of spectrum management described in the handbook on "National Spectrum Management." If you need additional space to answer the questions please continue on a separate sheet of paper.

1.   Do you have a national law governing spectrum management?   YES X   NO__

- Last date this law was changed or modified?   A new Law,   25 July 96
- Are any actions planned to change this law?   YES__   NO X

Have any problems been identified? and if so, do you need any assistance from the ITU in solving them?

No

2.   Have you published regulations and procedures for national spectrum management (e.g. radio services, license requirements etc.)?   YES X   NO__

Have any problems been identified? and if so, do you need any assistance from the ITU in solving them?

No

3.   Do you have a national radio frequency spectrum allocation table?   YES X NO__

Have any problems been identified? and if so, do you need any assistance from the ITU in solving them?

No

4. Do you have technical specifications for national spectrum use?   YES _X_ NO__

    Have any problems been identified? and if so, do you need any assistance from the ITU in solving them?

    <u>No</u>

5. Do you have a need for any spectrum redeployment* ?   YES _X_ NO__

* The term "redeployment" is used here to refer to a process of national scope in which an assessment is conducted 1) to determine if portions of spectrum can be identified that are in limited use; and 2) to determine if such spectrum segments can be reallocated for use in delivering radiocommunication services that have expanding spectrum requirements.

    - If so, do you have a strategy for achieving this redeployment in respective frequency bands and for given radiocommunication services?   YES__   NOT YET

    - Please define the established strategy and describe the nature of the consultation, if any, with users regarding the potential costs resulting from the planned redeployment.

    <u>Redeployment strategies are in the course of elaboration</u>

6. What is the total cost of national spectrum management functions performed by your Government (expressed in Swiss francs)?   About <u>135 Mio SFR</u>

    -   What is the source of the funding required to accomplish these spectrum management

        functions?

    <u>Basically on frequency fees based on granted frequency assignments (monthly), on frequency usage contributions (annually) and to some extent funds are required from taxes</u>

.   Do you have a method for establishing spectrum users' fees?   YES <u>X</u> NO__

    - If so, please give a brief description of the method used in establishing those fees.

    The Regulatory Authority for Telecommunications and Posts (RegTP) introduced (1996) a performance and accounting system (known by the acronym LKR). A module "expense record" allows the direct assignment of up coming costs with regard to the most important categories of costs. The expense record is carried out in form of a worksheet which has to be filled in by the employees who worked in the relevant performance range.The expense record contains on a daily basis precisely the duration of the period needed for the accomplishment of the specified tasks in the framework of a monthly evalution. For further information see Document 1/37-E, Working Party 1B, Assen, 24 August, 1999.

8.   Do you maintain centralized databases for spectrum management?   YES__   NO X

   -   What is the approximate size of your database (expressed in   ---------

       number of records)?

   -   Do you have a computerized data base management   YES X NO __
       system (DBMS)?

   -   What DBMS system do you use?   <u>Server based system (CS-System)</u>

   -   Are these frequency assignment records available to public?   YES__ NO X

   Have any problems been identified? and if so, do you need any assistance from the ITU in
   solving them?

   <u>No</u>

9.   Do you notify frequency assignments to the ITU?   YES X   NO__

   Have any problems been identified? and if so, do you need any assistance from the ITU in
   solving them?

   <u>No</u>

10.   Do you have a policy and planning function for national spectrum management (i.e. a
      national strategy for future use of the spectrum)?   YES X NO__

   Have any problems been identified? and if so, do you need any assistance from the ITU in
   solving them?

   <u>No</u>

11.   Do you perform technical analyses of frequency assignment requests?   YES X NO__

   Have any problems been identified? and if so, do you need any assistance from the ITU in
   solving them?

   <u>No</u>

12.   Do you perform radio monitoring?   YES X NO__

   - number of fixed monitoring stations   <u>eight (8)</u>

       - facilities available at fixed monitoring stations
            -- monitoring up to <u>40.000</u> MHz (40 GHz)
            -- direction finding up to <u>2.700</u> MHz (2,7 GHz)

- number of mobile monitoring stations <u>fourty (40)</u>

    - facilities available at mobile monitoring stations

      -- monitoring up to <u>40.000</u> MHz (40 GHz)

      -- direction finding up to <u>1.300</u> MHz (1,3 GHz)

Have any problems been identified? and if so, do you need any assistance from the ITU in solving them?

<u>No</u>

13. Do you perform technical analyses of radio frequency interference complaints?   YES <u>X</u> NO__

- Do you have an <u>e</u>stablished consultation process, involving Government and non-government organization, for resolving these complaints?   YES__ NO_X_

Have any problems been identified? and if so, do you need any assistance from the ITU in solving them?

<u>No</u>

14. What computers and operating systems are in use for national spectrum management?

Type of computers   <u>PC based equipment</u>

Operating system(s)   <u>MS Windows NT</u>

Have any problems been identified? and if so, do you need any assistance from the ITU in solving them?

<u>No</u>

15. Number of technical/professional staff in national spectrum management?

about <u>900 (total)</u>

16. Number of support staff in national spectrum management?)   ----------

17. Describe your country's spectrum management structure (Please enclose a copy of organization chart)   see explanation

18. Do you use the ITU-R Handbooks and Reports on:

a) National Spectrum Management, version 1995 ?

b) Spectrum Monitoring[1], version 1995?

c) Computer-aided Techniques for Spectrum Management, version 1999?

d) HF Broadcasting System Design, version 1999?

e) Report SM.2012, Economic Aspects of Spectrum Management, version 1997[2]?

f) Windows Basic Automated Spectrum Management System (WinBASMS)
    Software Version 1997, Manual Version 1997

ITU-R Handbooks and Reports a) to e) are used partially; f) is not used.

What additional information/handbooks do you need from the ITU?

<u>None</u>

*To be returned no later than **31 January 2000** to:*
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THANK YOU FOR YOUR COOPERATION

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[1] The Spectrum Monitoring Handbook is currently being updated, therefore, you are urged to contact Mr Jan Verduijn (NL), the designated Rapporteur from ITU-R Study Group 1, Working Party 1C if you have any comments that you wish included in a future version of this Handbook.

[2] This Report SM.2012 was updated during the ITU-R Study Group 1 meeting in August 1999. This new version is expected to be available in the three working languages by January 2000.

Bundesrepublik Deutschland

RegTP
Regulierungsbehörde für

ITU Telecommunication Development Büro

ITU-D Study Groups Secretariat
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Your reference, your letter of	My reference, my letter of		
TDB CA/08 2 November 1999	RegTP/131-1 B 5930 18-3111		04 February 2000
BR CA/71 2 November 1999		Fax: +49 6131 18-5604	

Your ref:

Questionnaire on national radio frequency spectrum management to seek information needed for responding to Resolution 9 of the World Telecommunication Development Conference (WTDC-98,Valetta);

Answer of the Federal Republic of Germany concerning **Part II;**

Dear Sir/Madame,

I have the pleasure to provide you with the completed Part II of the above mentioned question-naire asking general questions on national spectrum management. The answers describe the basic issues for the accomplishment of spectrum management in the Federal Republic of Germany.

In this respect we refer also to Part I of the Questionnaire which has been answered by the FM chairman, Mr Reiner Liebler, within the scope of the preparation of the European Allocation (ECA) Table (extract from ERC Report 25) as an outcome of ERC/CEPT activities. This Table reflects also the views of Germany.

I hope that this information will help in the preparation of a joint Radiocommunication and Telecommunication Development Sectors report in order to assist other addministrations in their consideration of alternative strategies for national frequency spectrum use.

Yours faithfully,

Reiner Liebler

Annex

Questionnaire -Part II

of Administrative Circular

CA/71

Germany

Response to Question 17 of the ITU Administrative Circular CA/71, 2 November 1999

<u>Spectrum Management Structure in the Federal Republic of Germany</u>

1.   <u>Introduction</u>

The German telecommunications sector is regulated by the Telecommunications Act of 25 July 1996, which aims to promote competition through regulation, and thereby guarantee appropriate and adequate services throughout the country, and provide for frequency regulation.

The Regulatory Authority for Telecommunications and Posts was set up on 1 January 1998 as a higher federal authority within the scope of business of the Federal Ministry of Economics and Technology. Its seat is in Bonn. The Regulatory Authority assumed the functions of the former Federal Ministry of Posts and Telecommunications, which was dissolved at the end of 1997. The Federal Office for Posts and Telecommunications, previously responsible for tasks relating to the implementation of the Telecommunications Act, was also incorporated into the Regulatory Authority.

2.   <u>Performance of Frequency Regulation in Germany</u>

In Germany, frequency regulation is based on the national table of frequency allocations, frequency usage plans, and frequency assignment procedures.

The performance of spectrum regulation functions, including charging licence fees, frequency fees for assigned frequencies and frequency usage contributions, is regulated by ordinances having the force of law. In terms of the Telecommunications Act, frequency regulation means ensuring effective, interference-free use of frequencies, with regard also to broadcasting requirements.

3.   <u>Organisation of the Frequency Regulation Branch in Germany</u>

The Federal Ministry of Economics and Technology (Department VII, Bonn) and the Regulatory Authority (Department 1 (Telecommunications Regulation) and Department 3 (Technical Telecommunications Regulation) in Bonn and Mainz, and 51 regional offices throughout the country) are involved in the frequency regulation process. Frequency regulation is managed in Germany through a decentralised system.

Divisions 12, 13 and 31 of the Regulatory Authority are responsible for the basic issues concerning legal aspects of regulation, licences, principles of frequency regulation, frequency management, broadcasting frequencies and licences, and compatibility between radiocommunication services.

There are sections with overall responsibilities for all radiocommunication services. The performance of the tasks of the other sections is directly related to the various services' objectives. The following areas are each covered by one section: analogue broadcasting frequency and assignment matters; digital broadcasting; frequency regulation for mobile services; frequency regulation and frequency assignments for radio-relay systems; frequency assignment for PMR and satellite services; frequencies for mobile maritime and aeronautical services, inland waterways, amateur services, CB radio, radiocommunication operators' certificates, radio for authorities and organisations concerned with public safety and for railways; frequencies for the satellite, radiodetermination, and fixed services below 30 MHz and civil/military frequency coordination. Radio monitoring activities and regular frequency assignment tasks are mainly carried out by staff at the Regulatory Authority's regional offices; their locations throughout the country guarantee close contacts between the authority and its customers.

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      - Last date this law was changed or modified?   A new Law, 1 August 1996

      - Are any actions planned to change this law?   YES__   NO X

      Have any problems been identified? and if so, do you need any assistance from the ITU in solving them?

      No

2.   Have you published regulations and procedures for national spectrum management (e.g. radio services, license requirements etc.)?   YES X   NO__

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3.   Do you have a national radio frequency spectrum allocation table?   YES X   NO__

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- If so, do you have a strategy for achieving this redeployment in respective frequency bands and for given radiocommunication services?   YES__ NOT YET

- Please define the established strategy and describe the nature of the consultation, if any, with users regarding the potential costs resulting from the planned redeployment.

Redeployment strategies are in the course of elaboration

6.   What is the total cost of national spectrum management functions performed by your Government (expressed in Swiss francs)?   About 135 Mio SFR

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8.   Do you maintain centralized databases for spectrum management?   YES__   NO X

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- Do you have a computerized data base management system (DBMS)?   YES__   NO X

- What DBMS system do you use?   Server based system (CS-System)

- Are these frequency assignment records available to public?   YES__ NO X

Have any problems been identified? and if so, do you need any assistance from the ITU in solving them?

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12. Do you perform radio monitoring? YES X NO__

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    - Do you have an established consultation process, involving Government and non-government organization, for resolving these complaints? YES__   NO_X_

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    No

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    Type of computers   PC based equipment

    Operating system(s)   MS Windows NT

    Have any problems been identified? and if so, do you need any assistance from the ITU in solving them?

    No

15.   Number of technical/professional staff in national spectrum management?   about <u>900 (total)</u>

16.   Number of support staff in national spectrum management?)   ----------

17.   Describe your country's spectrum management structure (Please enclose a copy of organization chart).

18.   Do you use the ITU-R Handbooks and Reports on:

   a)   National Spectrum Management, version 1995 ?

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   c)   Computer-aided Techniques for Spectrum Management, version 1999?

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   e)   Report SM.2012, Economic Aspects of Spectrum Management, version 1997[4]?

   e)   Windows Basic Automated Spectrum Management System (WinBASMS) Software Version 1997, Manual Version 1997

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