



International Committee on
Global Navigation Satellite Systems

Regulatory Aspects of Spectrum Protection in Russian Federation

Prague, Czech Republic, 9 – 14 November 2014

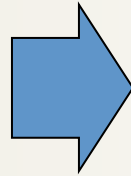
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Deputy Director of Closed Joint Stock Company
"Designed Bureau"Vector"



The major laws and legal acts in the area of regulating of use and protection of the radio-wave frequency spectrum

The federal Law «Of communication»

This law was passed in
18.06.2003



Article 22. the regulation of use of the wave frequency spectrum

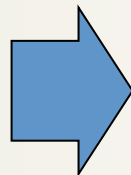
Lays down the rules in the area of regulating the use and protection of the radio-wave frequency spectrum.

Lays down the rules in the area of access to the radio-wave frequency spectrum.

Determines the function of government organizations and services in the area of regulating the use and protection of the radio-wave frequency spectrum

The table of distribution of bands of radio-frequencies among the Federal services In Russian Federation

Act passed by the Federal
Government
On 21.12.2011 № 1049-34



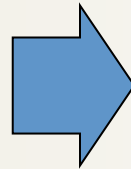
Specifies the distribution of bands of radio-frequencies among the Federal services In Russian Federation.

Specifies the conditions of use of radio frequency bands for radio equipment and users of this radio equipment for ordering, development and transporting them into Russia, planning of use and using of radio-electronic equipment.

Legal and regulatory acts in the area of protection of the radio-wave spectrum

The order of registration radio-electronic equipment and high-frequency electronic devices

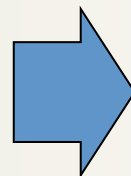
Corrections of act passed by the Federal Government
от 19.03.2013 № 237



Determines the appropriate organization and the order of registration of the radio-electronic equipment in Russian Federation.

The rules of control of radio use in Russian Federation

Act passed by the Federal Government
13.10.2008 № 761

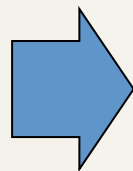


Determines the appropriate organization, the way and the order of enforcement of control of radio use in Russian Federation.

Legal and regulatory acts in the area of protecting the radiofrequency spectrum from interference

The instruction of order of acceptance and review of requests for finding interference

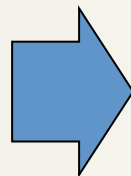
The order of ministry of Communication of 20.11.1998 № 203



Regulates the order of acceptance and review of requests for finding interference created by technical means of communication – sources of industrial interference and radio-electronic equipment

The instruction for search and locating the interference of radio signals

The order of control of communication of Russian Federation
от 02.02.2010 № 78

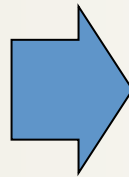


Determines the rules and order of search and locating the interference of radio signal on the territory of Russian Federation

Legal and regulatory acts in the area of protecting the radiofrequency spectrum from interference

**The legal act
of protection of receiving
of industrial interference**

Passed by the Federal
Government
on 13.10.2008 № 761



Lays down the order of protection of radio reception of industrial interference for individuals and organizations, developing, production, import, purchasing, selling and using of this equipment on the territory of Russian Federation.

Organizations and services of national regulation in the area of use of the radiofrequency spectrum

The Administration of communication of Russian Federation



The government committee on radio frequencies



The federal service of control in the area of communication
technologies or mass communication

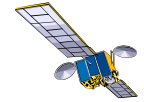


The radio frequency service

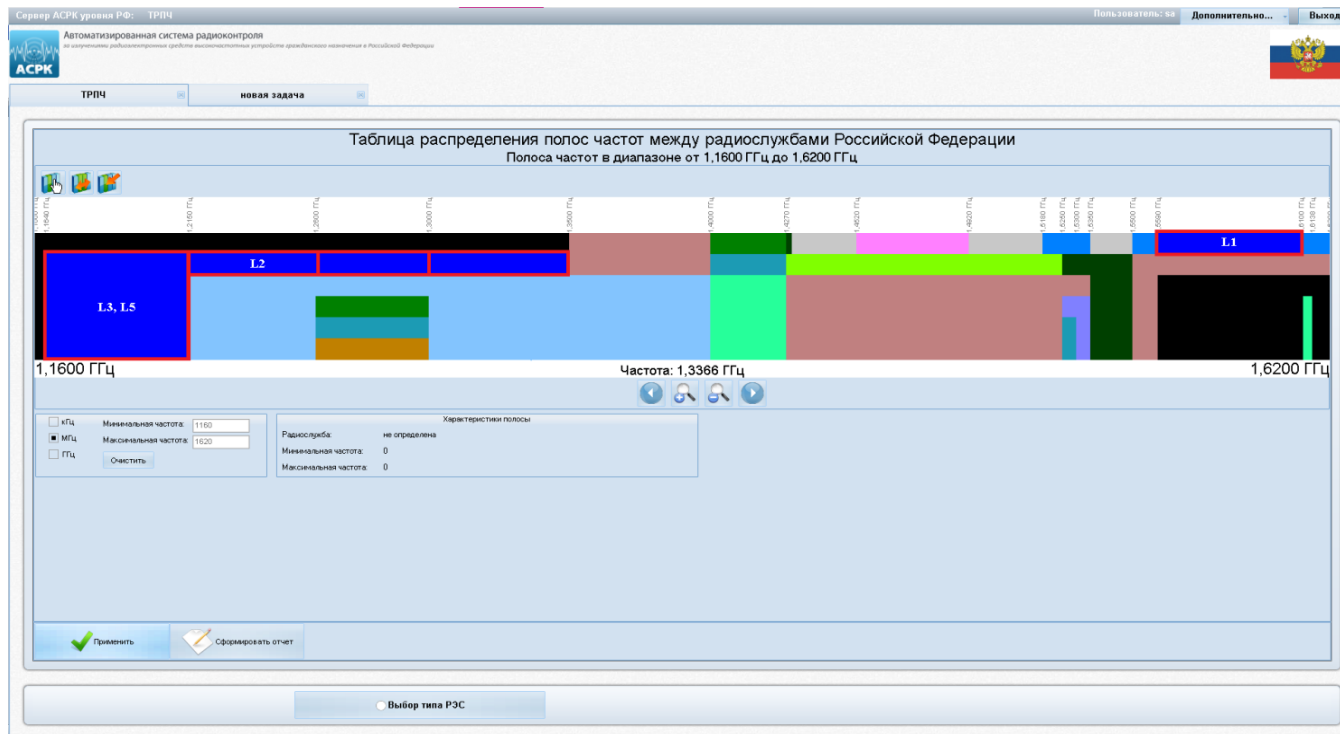
The main radio-frequency center

The regional radio-frequency
centers

The protection of radio frequency spectrum of the radio-navigation satellite radio service



The National table of distribution of bands of radiofrequency
In the band from 1160 MHz to 1620 MHz :

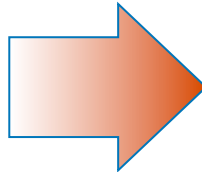


- **The bands of frequency radio-navigation satellite radio service**
 - These frequency bands are for government use and common use by means of communication for government and civilian purposes.
 - The bands are protected from the interference of signal of satellite communication

The use of radio band frequency spectrum of equipment of consumer

**The federal Law
«Of communication»**

Passed by the Federal
Government
18.06.2003



Article 22, p.5.

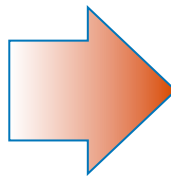
**Radio-electronic equipment
of personal radio-navigation
don't have to be registered.**

A simplified order of use is
applied to consumer equipment

The use of radio frequency spectrum in the band of waves of satellite navigation by the equipment of other radio services

The order of conducting a study, making a decision and issuing a license for use of radio frequency

Passed by the Government Committee on radio frequencies
20.12.2011, № 11-13-02

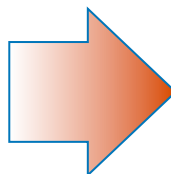


According to the data from the Federal Database:

The permission to use of frequency of satellite navigation has never been issued to other organizations.

The order of registration of radio-electronic equipment and high-frequency devices

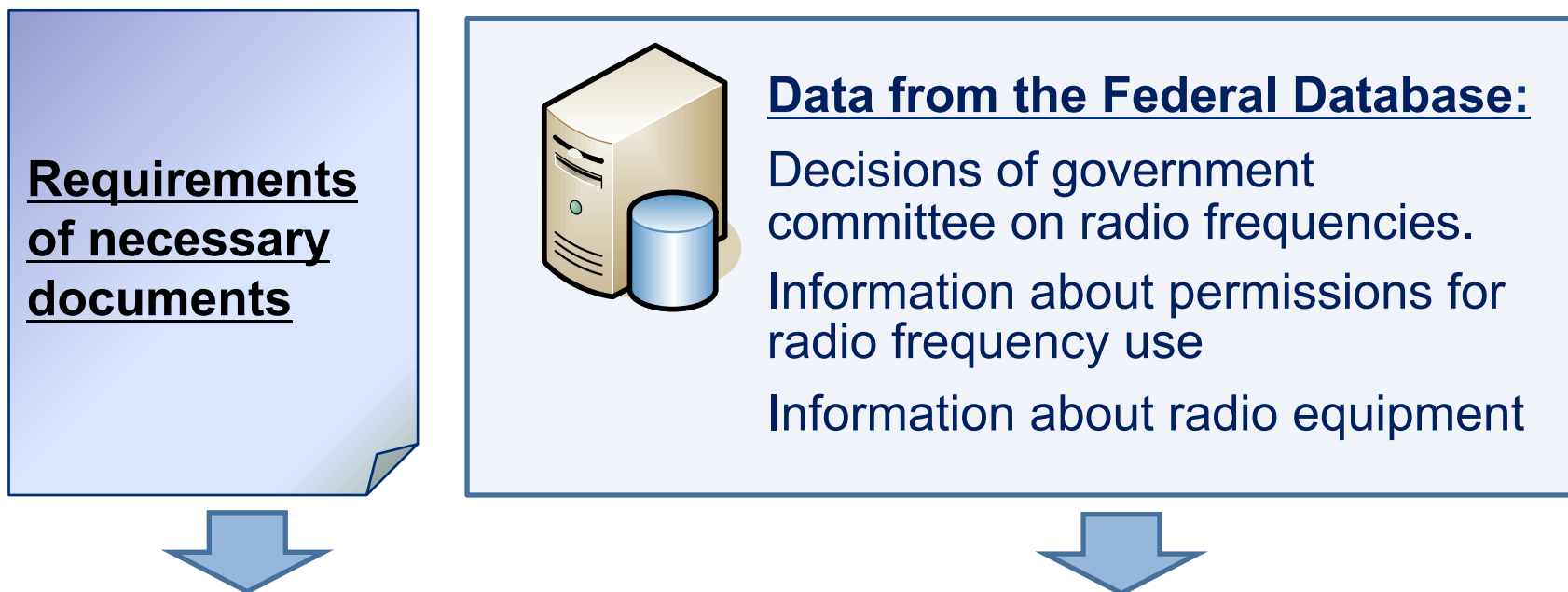
Corrected by the Federal Government
19.03.2013 № 237



According to the data from the Federal Database:

Registration of equipment in the bands of frequencies of satellite communication service of civilian equipment of equipment of other organizations has never been done.

The use of radio frequency spectrum in the band of waves of satellite navigation by the equipment of other radio services



Determine:

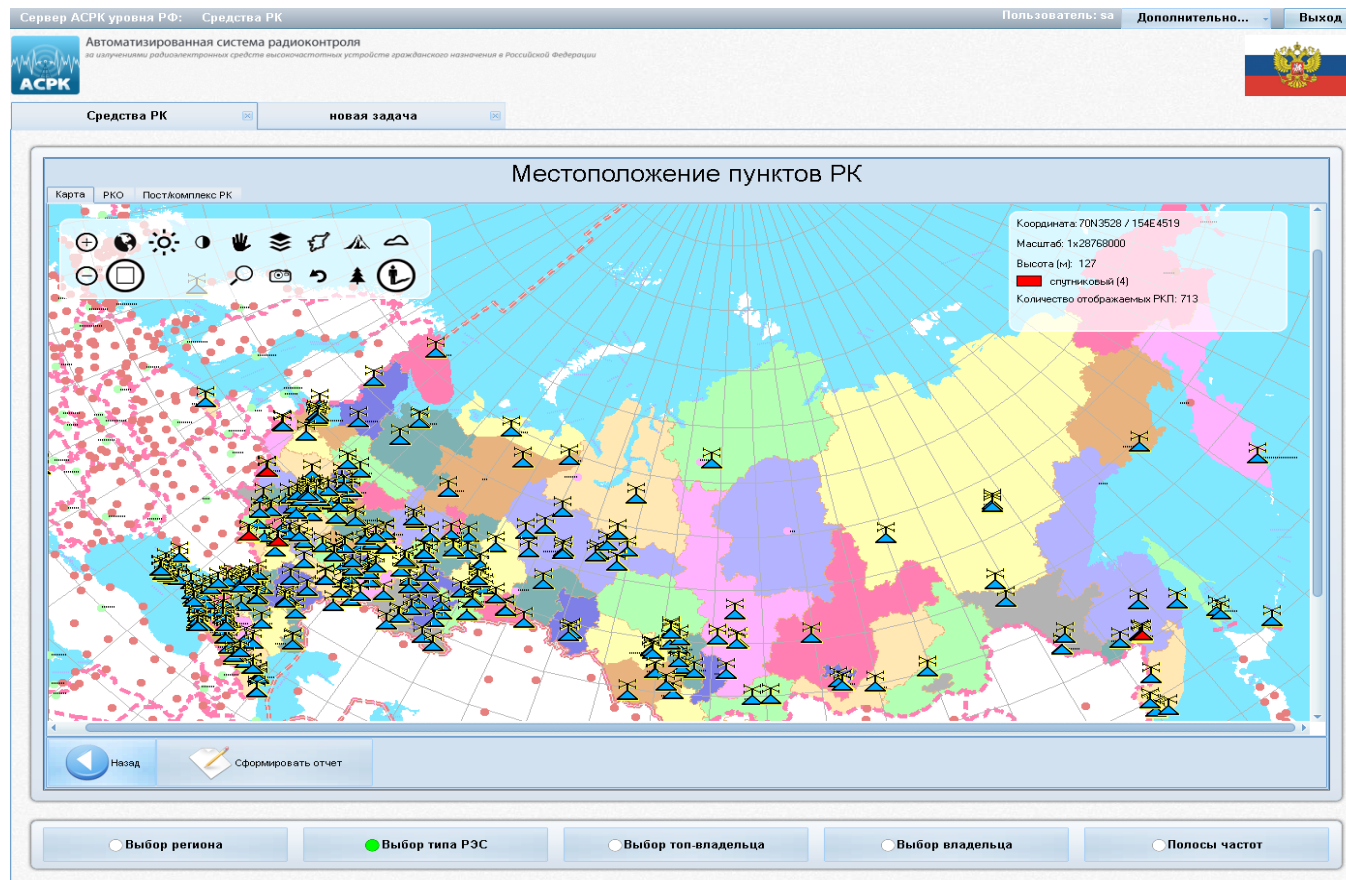
The use in Russian Federation in the radio-frequency bands of radio-navigation service of radio-electronic equipment for civilian purposes of other services and generator of noise (the sources of deliberate interference, «jammers») – illegally.

The illegal equipment is meant to be found and its use will be stopped according to the appropriate order of action.

The current system of radio-control and interference of broadcast

The current automated system of radio-control in Russian Federation: In the bands of radio-frequency of satellite radio-navigation service:

- Stationary complexes of radio monitoring - 401
- Mobile complexes of radio monitoring - 231
- Independent means of radio monitoring – more than 1500



Issues of finding and liquidating the interference of receiving of radio signals of satellite radio-navigation service

- **Navigation equipment of consumers in Russian Federation functions in the simplified manner of use, without special permissions of radio frequency use.**
- **In the band of satellite communication services, there are cases of illegal use of equipment, generators of noise and sources of deliberate interference “jammers”.**
- **The request to search and liquidation of interference are processed by the Russian Federal radio-frequency service from individuals registered in special order and making the payment for the use of radio frequencies.**

Issues of finding and liquidating the interference of receiving of radio signals of satellite radio-navigation service

- Additionally the request to search and liquidation of interference are processed by the Russian Federal radio-frequency service in the cases of interference of reception of the television and radio signals.
A similar procedure should be provided for cases of interference for receiving satellite radio-navigation signals.
- Special solutions are required on the international level and appropriate legislature on the national level for additional protection of the radio-wave frequency spectrum from interference of receiving satellite radio-navigation signals.



Thank you for your attention

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