



Spectrum Newsletter - 03/2015

Temporary Usage of Radio Frequency Spectrum During Test Events

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Spectrum Management - AF - Telecom



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1 | INTRODUCTION AND GOALS

The objective of this document is to present to radio frequency users the necessary procedures to be taken in order to request temporary use of spectrum (UTE in Portuguese) at Rio 2016 test events.

As mentioned on the document *Radio Frequency Spectrum Management Plan for the Rio 2016 Games*, various test events will be held in order to test the infrastructure at different competition and non-competition venues.

The test events, for which the guidelines and procedures described in this newsletter will be applied, will take place from July 2015 until the eve of the Games in May 2016.

At first, the guarantees offered by the Brazilian Government to the International Olympic Committee (IOC) on gratuitous to temporary use of spectrum during the 2016 Games would not be valid for the test events.

According to government guarantees, the gratuity period in allowances for temporary use spectrum begins on 5 July 2016, a month before the Olympic Games opening ceremony, and ends on 25 September 2016, one week after the closing ceremony of the Paralympic Games.

However, the Rio 2016 Committee decided to receive and process the spectrum temporary use requests for the test events with ANATEL, without passing the costs to the users. This time, even in test events, there will be no cost to users when requesting temporary use of frequencies.

ANATEL and Rio 2016 are also working together to ensure the regulatory body's involvement in test events, in order to improve the monitoring and enforcement process during the 2016 Games.



2 | REGULATORY GUIDANCE ON SPECTRUM FOR MAJOR EVENTS

2.1 PLAN FOR FREQUENCY ALLOCATION (PDFF)

The radio frequency spectrum is a scarce public resource. ANATEL is responsible for its administration and for maintaining the national frequency allocation table, also known in Brazil as the Plan of Allocation of Frequency Bands.

To be aware of the national frequency allocation table in Brazil, you can visit www.anatel.gov.br (available only in Portuguese).

2.2 AUTHORISATION FOR THE RADIO FREQUENCY USAGE

ANATEL, through an authorisation process, coordinates the use of telecommunication equipment operating with radio frequency in order to avoid degradation or malfunction of telecommunication networks installed in a particular geographic region.

The equipment identified as operating in disagreement (variation) with or without its authorisation act (licence) are subject to interruption. Additionally, as established in Article 183 and the sole paragraph of Article 184 of the General Telecommunications Law (LGT), the use of radio frequency without authorisation is considered a criminal offence and the illegal activity will be duly reported to the authorities responsible for investigating crimes.

Thus, given the serious consequences resulting from the use of radio frequencies without prior authorisation from ANATEL, Rio 2016 strongly recommends those interested in using this kind of equipment apply for authorisation.

2.3 TEMPORARY USE OF RADIO FREQUENCIES (LICENSING)

Any entity or professional interested in using radio frequencies in a temporary basis should know:

- The use of radio frequency, on a permanent or temporary basis, requires prior authorisation from ANATEL
- The authorisation is chargeable to the user, however Rio 2016 **will not** transfer the cost
- The authorisation for use of frequencies is made on a secondary basis, meaning that the applicant has no right to protection from interference made by other systems authorised on a primary or secondary basis
- Requests for frequency to be used during test events and the Games should be requested directly from Rio 2016 using the procedures being published
- In some test events to be disclosed, testing and tagging procedures in RF equipment may be required. However, not all the test events will require test and tagging procedures.
- If you want to apply for temporary use of radio frequency, you can find more detailed procedures on www.anatel.gov.br, including general orientation for the temporary use system and radio frequency system manual (available only in Portuguese)
- The diplomatic missions and the international bodies, which are interested in receiving authorisation for temporary use of the spectrum for visits to Brazil by foreign authorities, military ships and aeroplanes, must directly submit the request to the Ministry of External Relations (MRE) in Brasilia. Later, the requests will be sent by the MRE to ANATEL.

3 | EQUIPMENT (RF)

In order to ensure that telecommunication products used in the country meet quality and security minimum standards, current regulations in Brazil require telecommunication products to be certified and homologated (type approved) to be used in Brazilian territory.

Telecommunication equipment to be used in applications with authorisation for temporary spectrum use are exempt from certification and homologation while the temporary use authorisation is valid.

3.1 SHORT RANGE DEVICES (LOW POWER)

If there is no authorisation for temporary spectrum use, restricted radiation equipment, which, in principle, may be used with exemption of licence for station operation and independent of granting temporary use of spectrum, must be certified and homologated by ANATEL.

Portable telecommunications equipment, such as mobile phone, notebooks and tablets, may be used throughout the time that the holder of the product is legally authorised to remain in the country.

Telecommunication equipment in Brasil may not be commercialised without due certification and homologation by ANATEL.

3.2 TEMPORARY ADMISSION OF FOREIGN TELECOM EQUIPMENT

Regarding "temporary admission of foreign goods", including telecom equipment, it is not part of ANATEL's legal competencies to deal with this type of procedure. It is recommended that you seek further information with the Secretariat of the Federal Revenue of Brazil, by the link below:

<http://www.receita.fazenda.gov.br/principal/Ingles/faq.htm>

The telecommunications equipment excused from approval shall be recorded in accordance with the special Customs Regime of Temporary Admission of the Secretariat of the Brazilian Federal Revenue Service.

3.3 TEST AND TAGGING (T&T)

While not requiring certification, the RF equipment with licence for temporary use of frequencies may be subjected to test and tag (T&T) procedures in events with great demand for radio frequencies. The T&T procedures aim to minimise the risk of interference and will be applied at the Olympic and Paralympic Games.

On the other hand, contrary to Games time regular procedures, when T & T will be mandatory, for test events there is no provision for carrying them out. However, this does not eliminate ANATEL's regular and routine procedures that will lead spectrum monitoring and enforcement on the venues where test events will take place.

3.4 RADIO FREQUENCY NON-TRANSMITTING EQUIPMENT (RF)

Radio frequency **non-transmitting** equipment (RF), intended for the transmission of international events, are excused from approval by ANATEL. Such exemption will be applied only to foreign broadcasters and foreign media companies, accredited by the International Olympic Committee (IOC) or Rio 2016 to operate during the 2016 Olympic and Paralympic Games.

4 | PROCEDURES FOR APPLYING SPECTRUM FOR TEST EVENTS

In order to proceed with the request for spectrum temporary usage at test events in Rio, the user must take the following steps:

- a. All requests must be made through Rio 2016.
- b. From 9 February 2015, accredited users require a standard spreadsheet (Template) by sending an email with the request to spectrum@rio2016.com

This procedure will be valid from 9 February 2015 until the end of test events in May 2016.

Important: there will not be a frequency request for test events using the spectrum portal. Only the template will be used at test events.

- c. The template should include the following information:

- . Organisation
- . Contact name (email, phone number, etc.)
- . Start and end date of frequency usage request
- . City where the frequency will be used
- . Zone (cluster)
- . Venue
- . Coordinates
- . Sport/special event
- . Kind of service
- . Mode (duplex/simplex)
- . Preferred Tx/Rx frequency (MHz)
- . Number of identical devices
- . Type of use (indoor, outdoor, etc.)
- . Operating Mode (TX/RX/ both)



- . Maximum output power (W)
- . ERP (dBW)
- . Equipment manufacturer
- . Equipment model
- . Tuning range (from - to) MHz
- . Channel size/bandwidth (MHz)
- . Modulation
- . Channel spacing (MHz)

d. For permanent and temporary earth stations, the satellite names, geostationary orbit, diameter, height and gain of antenna are mandatory information, besides the relevant information in **c**.

e. For Wi-Fi coordination, the proposed standard and the proposed number of channels is mandatory, besides the relevant information in **c**.



5 | FINAL THOUGHTS

Technical information available in this spectrum newsletter has ANATEL website www.anatel.gov.br.

Please visit the ANATEL website for more detailed information on the Brazilian regular procedures for spectrum temporary use. Website content is available in Portuguese, English and Spanish.

For any doubts, comments or suggestions please e-mail to spectrum@rio2016.com.

1.2015

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Rio 2016 Organising Committee for the
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