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Rio 2016 Test and Tagging Procedures

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Spectrum Management - AF - Telecom

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1 | INTRODUCTION AND OBJECTIVE

The Test and Tagging (T&T) procedure consists of the identification of equipment authorised by Anatel, using tags that allow the right use of the equipment regarding its area of operation.

This procedure allows previous knowledge of the equipment and radio frequencies to be utilised by the various companies that participate in the event, in addition to helping planning of the monitoring and surveillance actions during the performance of the event, avoiding the entrance of equipment that has not been inspected and/or authorised at Rio 2016 facilities (venues).

It is essential that users of radiofrequency emitting equipment, comprising short-range equipment homologated by Anatel to be utilised at Rio 2016 facilities, request authorisation for temporary use of the spectrum in order to assure utilisation of the spectrum is free from harmful interferences.

2 | TEST AND TAGGING PROCEDURE

The flow, as presented in the figure below, shows the stages and functions to be performed by users and Anatel.

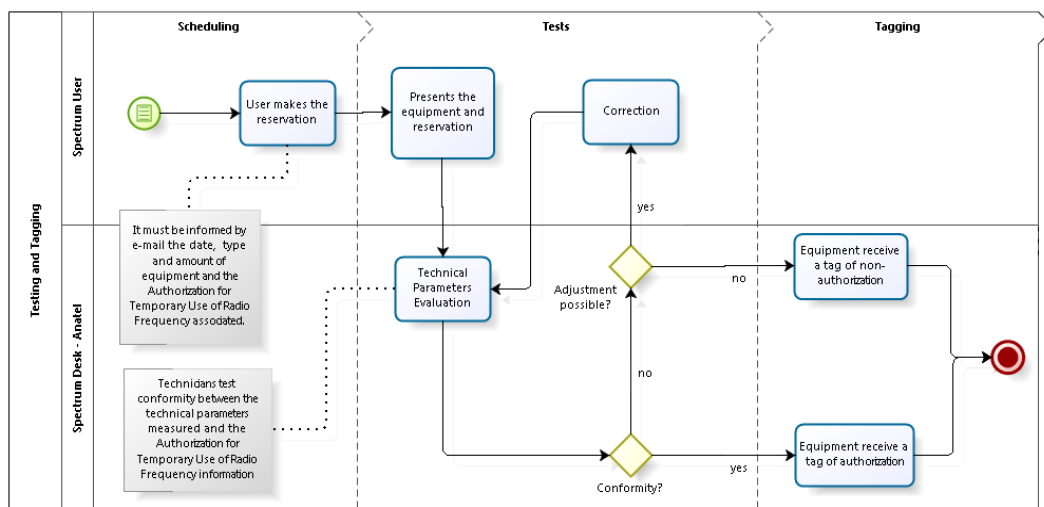


Figure 1: Testing and Tagging flow

Initially, the user will make the reservation by sending an e-mail to spectrum@rio2016.com and para_testandtag@anatel.gov.br. The necessary information for the reservation is:

- User identification
- Number of the authorisation for temporary use of radio frequency
- Quantity and type of equipment to be submitted for the T&T procedure
- Spectrum desk and desired time intended for scheduling

After receiving confirmation of the day and time scheduled, the user will submit the equipment and the Authorisation Act in order to get the T&T procedure performed. Anatel representatives will verify the conformity among the technical parameters and the Authorisation Act presented. Any equipment not in conformity will be allowed to be adjusted by the user. Should this not be possible, the equipment will receive a tag of non-authorized use, meaning the respective equipment cannot operate. After the tests, equipment in conformity will receive tags with the identification of the corresponding facility(ies).

GENERAL CONSIDERATIONS ABOUT T&T

The T&T procedure will be performed exclusively by Anatel technicians at the Spectrum desks located at the following Rio 2016 facilities:

ZONE	VENUE
Barra	International Broadcast Centre (IBC)
	Main Press Centre (MPC)
	Olympic and Paralympic Village (OLV)
	Riocentro Common Domain (RID)
Copacabana	Fort Copacabana (FTC)
	Lagoa Stadium (LAG)
	Marina da Glória (GLO)
Deodoro	Deodoro Common Domain (DCD)
Maracanã	Olympic Stadium (OLS)
	Maracanã (MRC)
	Uniform and Accreditation Centre* (UAC)
Belo Horizonte	Mineirão Stadium (MIN)
Brasília	Mané Garrincha Stadium (MGA)
Manaus	Amazônia Arena (AMZ)
Salvador	Fonte Nova Arena (FNA)
São Paulo	Corinthians Arena (SPA)

*At the Spectrum desk located in the Uniform and Accreditation Centre, tests on user equipment which does not or cannot request access to one of the other Spectrum desks will be performed.

It is recommended that Spectrum users request, from Rio 2016, accreditation to facilities that have a Spectrum desk, preferably the one closest to the specific facility of operation of the radio communication device.

Spectrum desks will be open from 22 July to 21 August for the Olympic Games and 30 August to 14 September for the Paralympic Games, with the exception of Maracanã (MRC) Spectrum desk, which will be open until 18 September.

At IBC, MPC and OLV, opening hours will be from 7.00am to 10.00pm. In other locations, operating hours will be from 8.00am to 8.00pm and follow the competition end time for each facility.

T&T activities will be allowed to be performed outside Spectrum desks by the Anatel team, preferably before the start of the Games, as long as the impossibility for the authorised user to take out the equipment from the facilities where there is not a desk for this purpose is verified. However, this solution will be conditioned to a previous reservation and the existence of appropriate resources (electric power, network, equipment having the possibility to operate) for the performance of the tests.

Equipment for the operation of the Games will have priority in scheduling for Test and Tagging. It is therefore recommended that scheduling is made as early as possible.

Important note: scheduling will be mandatory for users (organisations) that have over 50 devices to be tested and tagged simultaneously, informing in advance the Authorisation Act, the amount and type of equipment to be tagged, the Spectrum desk or specific place (for special cases) of preference and the suggested date and time. Scheduling can be made by emailing spectrum@rio2016.com and testandtag@anatel.gov.br.

The following equipment will be exempt from the use of tags: mobile phones, portable computers, tablets, receiving-only equipment and camera triggers¹. As per the criteria of Anatel and by means of specific authorisations, other radio frequency emitting equipment may be released from authorisation for temporary use of radio frequency and from the T&T procedure, including equipment that operates with confined transmission means.

Entry at any Rio 2016 facility of equipment that are blockers of signals (Jammers) and Wi-Fi routers is forbidden, with the exception in the latter case of equipment authorised by Rio 2016, so long as it is duly tagged. Equipment not allowed to be used must be turned off by the security teams as per Rio 2016 coordination.

Security teams will be instructed to block the entry of equipment with non-authorised tags or no tags for the respective venue.

¹ Only those using frequencies from 315.5 MHz to 317 MHz, from 340 MHz to 354 MHz and from 433.44 MHz to 434.42 MHz, according to Act nº 50,627, of 4 March 2016.

3 | TAGS

The tags used may identify a specific facility or a group of Rio 2016 facilities belonging to the same area of operation. The groups and colours were defined according to the areas and distance between the venues to allow the reuse of frequencies in a secure manner.

If a device has an Authorisation Act in use at more than one facility identified with different tags, this equipment will receive the amount of required tags to be used in all licensed premises, which can be done at any Spectrum desk immediately.

4 | FREQUENTLY ASKED QUESTIONS

1. Can I get the tags and tag my own equipment?

No. All testing and tagging will be conducted by Anatel Spectrum Technicians.

2. I will use a lot of equipment. Do I have to take it all to a Spectrum desk?

Yes. All equipment must be tested and tagged. Depending on the amount and the discretion of spectrum technicians, testing can be carried out by sampling. For over 50 devices, testing and tagging must be scheduled in advance.

3. What should I do if I lose the tag of the equipment?

Attend a Spectrum desk with your authorisation for temporary use of frequency to check the appropriate procedure.

4. For which Rio 2016 facilities will there be tags? Do I need a tag for all if I move through all of them?

There will be tags for all competition facilities, the Olympic and Paralympic Village, the IBC and the MPC. You need tags for all locations your equipment will enter.

5. How far ahead do I need to schedule so that my equipment is tested and tagged in my warehouse?

There will only be tagged equipment outside of Spectrum desks in cases when it is not possible to take it, or when the quantities are very large. Anticipated schedules will occur from June 2016, should the request be sent at least 15 days prior to the suggested date.

6. From what date and until when will Spectrum desks be open for testing and tagging?

For the Olympic Games, Spectrum desks will be open from 22 July to 21 August. For the Paralympic Games they will be open from 30 August to 14 September. Only the Maracana (MRC) Spectrum desk will be open until 18 September.

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