



Spectrum Newsletter - 02/2014

Communication on Spectrum Management for Rio 2016 Functional Areas

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Spectrum Management - AF - Telecom

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1 | INTRODUCTION

The purpose of this newsletter is to guide Rio 2016 Functional Areas and their potential temporary users of radio frequency spectrum on basic issues of its usage before and during the Games.

The information contained in this newsletter is the responsibility of the Spectrum Management on the Telecommunications area of Rio 2016 (TEL), hereafter referred to as GE Rio 2016.

All radio communication equipment must be registered prior to its use in Brazil, in particular at Rio 2016 venues and common areas. Temporary authorisation for guaranteed users should be obtained on behalf of Rio 2016 and must be requested following the procedures described in the Spectrum Management Plan, to be further detailed in a specific newsletter.

Users do not need to register equipment such as mobile phones, tablets, computers, Bluetooth, headsets and other similar devices. Any user intending to deploy a private Wi-Fi network shall request coordination and obtain specific authorisation from GE Rio 2016.

ANATEL (Agência Nacional de Telecomunicações), the Brazilian telecommunication Regulator Agency, in partnership with the Rio 2016 Organizing Committee, is going to collaborate, organise and assign the appropriate frequencies in response to the requests.

Upon arriving at the Games venues, users must look for the spectrum desks to present their radio frequency devices to ANATEL, which will carry out a technical inspection of the wireless equipment to insure compliance with the imposed specifications; devices will be marked with a conformity label (tag).

It is highly recommended that functional areas directly or indirectly using the radio frequency spectrum before or during Games time support GE Rio 2016 in order to frequently update their clients about news on spectrum issues, divulging as quickly as possible every piece of information.

All the procedures of spectrum management are developed to guarantee a spectrum free of harmful interference and to provide users with spectrum of high quality.

Any problems or enquires should be sent to spectrum@rio2016.com.

2 | FUNCTIONAL AREAS

In order to provide a good spectrum coordination, GE Rio 2016 needs to communicate actively to various internal functional areas that will use radio frequencies before and during Games time.

It must be highlighted that the spectrum is one of the resources that in some way affects all the Games family members, as well as internal areas of the Rio 2016 Games.

Communication with the functional areas is going to be key for the success of the spectrum program.

2.1 BROADCASTING

The broadcasting team is responsible for the Olympic Broadcasting Services (OBS) integration. As OBS is the largest spectrum user, it is important that GE Rio 2016 can easily communicate and work with this user to support its needs.

As Right Holder Broadcasters (RHBs) and OBS are the main spectrum user group, it is important to provide an example of a Spectrum Communication procedure as follows:

1. GE Rio 2016 send a copy of the Spectrum Management Plan; OBS should provide a list of all accredited broadcasters.
2. Prior to the launch of the Spectrum Portal and the bulky submission spreadsheet, GE Rio 2016 will publish a specific newsletter with a guide detailing the procedures for radio frequency requests.
3. Updated information about the Spectrum Program will also be widespread by GE Rio 2016 during the World Broadcasting Meetings.
4. During the spectrum applications period, GE Rio 2016 will follow the RHB demands in order to assist them with their requests.
5. GE Rio 2016 will be frequently updating and providing support to the broadcasting functional area to guarantee reliable and prompt information to its users.
6. IBC (International Broadcast Centre) will host a spectrum desk where ANATEL shall test and verify equipment for its use in the venues.

2.2 PRESS

Members of the press usually require the use of portable radios, wireless microphones and private Wi-Fi network. They also have numerous questions about the effectiveness of the wireless communication, as they are one of the largest consumers. It is recommended that GE Rio 2016 attend the World Press Briefing (WPB), World Press Meeting (WPM) and others, in order to update users about the progress of the Spectrum Management Program. MPC will also host a spectrum desk.

2.3 RATE CARD

The Spectrum Portal and the Rate Card share the same information platform. Rate Card is responsible for allowing access to accredited users. As the Rate Card comprises the complete Olympic and Paralympic family, it is beneficial to the GE Rio 2016 to also use this tool. For instance, if a press agency is seeking access to Rate Card items, they may also require temporary access to the spectrum.

The Spectrum Portal is going to be the main tool for receiving, approving or cancelling future radio frequency requests. Only the accredited users are able to require the spectrum by this tool. A spreadsheet is being created for requiring a large simultaneous amount of frequency to users also demanding a huge quantity of radio channels (bulky submissions).

The information on the spreadsheets will be inserted on the Spectrum Portal for updating and data archiving.

2.4 VENUES GENERAL MANAGERS

Venue general managers are responsible for the integration of all functions at the venue. Considering their responsibilities, their coordination with GE Rio 2016 is important, so their functional-level tasks be known, as well as the importance of radio frequency and Wi-Fi coordination before and after the Games. Some venues will host spectrum offices, such as Fort Copacabana, Maracanã, J. Havelange Olympic Stadium, Marina da Glória, the Olympic Village and another venue to be defined in Deodoro. Spectrum offices will also be located at football stadiums outside Rio de Janeiro (in Brasília, São Paulo, Salvador and Belo Horizonte).

2.5 OMEGA TECHNOLOGY

Omega Timing and scoring equipment will also use wireless network. Being one of the Rio 2016 top sponsors and a member of the technology team, it will be necessary to work together and meet the demands, as timing and scoring is extremely important to the Games.

In certain cases, Omega might demand use of unlicensed equipment. If Rio 2016 can enable this, it might be necessary to take some security measures, considering its level of criticality.

2.6 TRANSPORT

Although transport is mainly using Digital PMR (Private Mobile Radio) of Rio 2016, there might be an extra need for radio frequency devices. If necessary, GE Rio 2016 will follow the area in order to identify their needs and provide the best solution.

2.7 NOC/NPC

The NOCs/NPCs are private Wi-Fi and handheld radio users. The NOCs/NPCs generally require assistance for their radio frequency equipment, as they are not RF experts. GE Rio 2016 must support them in coordinating their needs for radio frequency equipment and eventually attending meetings when visiting Rio.

2.8 TICKETING

According to previous Games experience, the responsible company has used wireless Wi-Fi scanners.

If necessary, the GE Rio 2016 will work on identifying the responsible company needs and the location of their access points.

2.9 MARKETING PARTNERS

Marketing partners (Panasonic, Coca Cola, etc.) may display their products within the Olympic Parks. At these locations, users may require wireless devices such as microphones, Wi-Fi spots, and handheld radios. The best option is engaging them in the process as soon as possible and obtaining information about their sponsoring contract.

Marketing partners and sponsors may also demand radio frequency in different sites where they host clients associated to the Games. GE Rio 2016 is also supporting them in obtaining the necessary spectrum for these situations.

2.10 CEREMONIES

Regarding spectrum management, the most critical moments of the Rio 2016 Games are the opening and closing ceremonies. The ceremonial group will be a massive user of radio frequency equipment, and need to be quickly engaged in order to identify their demands and requirements.

2.11 MEDICAL SERVICES

Some teams may require the use of wireless monitors for athletes (typically during training sessions).

2.12 IOC/IPC

The GE Rio 2016 must work with the IOC in order to approve their radio frequency equipment (typically wireless internet or wireless microphones for conference room usage). Although not being large users, some wireless communication might be required.

2.13 TORCH RELAY

The GE Rio 2016 will be responsible for assisting the torch team in getting radio frequencies (handheld radios).

2.14 CLEANING, CATERING, FOOD AND WASTE

This might be a huge group of radio users.

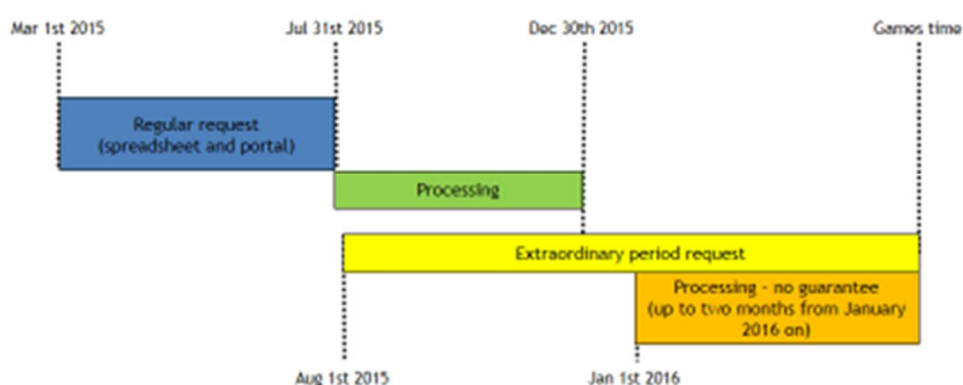
2.15 SECURITY

The security staff will certainly be a large group of radio frequency users, mainly handheld radios.

3 | SPECTRUM MANAGEMENT SCHEDULE

CLIENT / BODY RESPONSIBLE	ACTION	MEANS	PERIOD
OBS and RHBs	Delivery of requests to Rio 2016	Spreadsheet	1 st March 2015 to 31 st July 2015
General Users	Delivery of requests to Rio 2016 - Period 1	Portal	1 st March 2015 to 31 st July 2015
Rio 2016/ANATEL	Processing of requests	Spreadsheet, Portal and Mosaic	Until 30 th December 2015
OBS, RHBs and general users	Delivery of late requests to Rio 2016	Portal	From 1 st August 2015 to Games Time
Rio 2016/ANATEL	Processing of late requests	Portal and Mosaic	Up to two months from 2 nd January 2016

Spectrum request and usage timeline



A GE Rio 2016 agradece desde já os comentários, críticas e sugestões sobre este Boletim Informativo - Espectro. Favor retornar através de spectrum@rio2016.com.



Referencies:

- Radio Frequency Spectrum Management Plan - the Rio 2016 Olympic and Paralympic Games; Feb/2014.
- Procedures for Communications - London 2012 e Sochi 2014.

10.2014

This material shall not be duplicated by any means, except with prior and express consent (in writing) from the Organizing Committee for the Rio 2016 Olympic and Paralympic Games. Authorizations for copy should be submitted by mail to brandprotection@rio2016.com

Rio 2016 Organising Committee for the
Olympic and Paralympic Games

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