



Radiocommunication Bureau (BR)

Administrative Circular
5/LCCE/60

3 June 2016

**To Administrations of Member States of the ITU, Radiocommunication Sector Members,
ITU-R Associates participating in the work of Radiocommunication Study Group 5
and ITU Academia**

Subject: **Questionnaire on the usage of railway radiocommunication systems**

Reference: **Resolution 236 (WRC-15) railway radiocommunication systems
between train and trackside**

Railway transportation contributes to global economic and social development, especially for developing countries. With the rapid development of wireless technologies, radiocommunication has been implemented widely in the railway industry and is an important mean for information transmissions and safeguards. International standards and harmonized spectrum would facilitate worldwide deployment of railway radiocommunication systems and provide for economies of scale in railway transportation.

Resolution **809 (WRC-15)** decided that the agenda item 1.11 of WRC-19 is "to take necessary actions, as appropriate, to facilitate global or regional harmonized frequency bands to support railway radiocommunication systems between train and trackside within existing mobile service allocations, in accordance with Resolution **236 (WRC-15)**".

The technical and operational characteristics used by railway radiocommunication systems vary by country. In order to get a clear overview on these systems, it is necessary to summarize the technical and operational characteristics for railway radiocommunication systems between train and trackside for traffic control, passenger safety, and security for train operation. ITU-R Working Party 5A is currently studying the usage of railway radiocommunication systems. Gathering the information on the usage of such systems would facilitate the preparation for WRC-19 agenda item 1.11.

The Radiocommunication Bureau hereby invites Administrations of Member States of the ITU to provide answers to questions listed in the Annex and submit it to brsgd@itu.int by 31 October 2016.



François Rancy
Director

Annex: 1

Distribution:

- Administrations of Member States of the ITU and Radiocommunication Sector Members participating in the work of Radiocommunication Study Group 5
- ITU-R Associates participating in the work of Radiocommunication Study Group 5
- ITU Academia
- Chairman and Vice-Chairmen of Radiocommunication Study Group 5
- Secretary General of the ITU, Director of the Telecommunication Standardization Bureau,
Director of the Telecommunication Development Bureau

ANNEX
QUESTIONNAIRE

Question:

1 Please provide the name(s) of Railway Radiocommunication Systems providing railway traffic control, passenger safety and security for train operations in your country.

#	Name of the System(s)
1	(Name of System 1)
2	(Name of System 2)
3	...

Question:

2 What are the technical and operational characteristics of each system?

2.1 What are the Frequency bands in use?

#	Name of the Systems	Frequency bands in use
1	(Name of System 1)	...
2	(Name of System 2)	...
3

2.2 Which Radiocommunication standard(s) are applied for each system? Please list the name and provide the Uniform Resource Locator (URL) for the standard(s).

#	Name of the Systems	Radiocommunication Standard(s)
1	(Name of System 1)	Standard 1: Name: _____ (URL) : _____ ...
2	(Name of System 2)	...
3

2.3 What are the technical parameters of the Radio Frequency (RF) interfaces of each system?

#	Name of the Systems	Technical parameters of the RF interfaces
1	(Name of System 1)	...
2	(Name of System 2)	...
3

Note: The technical parameters of the RF interface could include channel separation, antenna type, antenna gain, polarization, e.i.r.p., receiving noise figure, transmission data rate, transmission distance (km), modulation, multiplexing method, protection criteria, etc.

Question:

3 Are you planning to migrate your system? If possible please answer the above questions for the future system(s), and indicate which existing system(s) would be replaced?
