

**DRAFT QUESTIONNAIRE TO COLLECT INFORMATION ON THE RAILWAY  
RADIOCOMMUNICATION SYSTEMS IN REGION 2**

The 37th Meeting of Permanent Consultative Committee II: Radiocommunication (PCC.II),

**DECIDES:**

1. To approve the attached questionnaire intended to collect information on the frequencies used by rail systems for signaling, communications (voice), data transmission, video, traffic safety, braking systems, signage, maneuvering, etc. with the purpose of evaluating the possibility of harmonizing the frequencies used in our region for this type of systems.
2. To request the CITEL Secretariat to distribute the attached questionnaire to the Administrations of the Member States and Associate Members.
3. A rapporteurship will be carried out by Mr. José Levi from the Administration of Argentina ([jlevi@enacom.gob.ar](mailto:jlevi@enacom.gob.ar)) and Mr. David Tejeda from the Administration of México ([david.tejeda@ift.org.mx](mailto:david.tejeda@ift.org.mx)) at the scope of the WG 3.2.
4. To invite the OAS / CITEL Member States to send their answers to the questionnaire by July 31, 2021, to the Rapporteurship and the CITEL Secretariat ([citel@oas.org](mailto:citel@oas.org)).
5. The Rapporteur should submit a report to the 38<sup>th</sup> and 39<sup>th</sup> PCC.II Meeting, that summarizes responses to the questionnaire.

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<sup>1</sup> PCC.II-2021-37-5286r2

**ANNEX TO DECISION PCC.II/DEC. 218 (XXXVII-21)**

**QUESTIONNAIRE ON THE FREQUENCIES USED BY RAILWAY  
RADIOCOMMUNICATION IN THE AMERICAS**

Each Administration is invited to provide responses following:

a) Services involved in the use of radio frequencies by companies providing both cargo and passenger rail services, including a brief description and its purpose [communications (voice), data transmission, video, traffic safety, braking systems, signaling, maneuvers, etc.]

b) 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	...

c)What are the technical and operational characteristics of each system?

d)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	...	...

e) Does your country use the so-called “end of train” signal? What frequency is used for this signal?

f) 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	...	...

g) 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.

h) Are your Administration 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?

i) What current and future technologies does your Administration believe should be used to maximize radio spectrum efficiency for signaling between roads and trains, including communications (voice), data transmission, video, traffic safety, braking systems, signaling, maneuvers, etc.?

j) Noting that concerned administrations may have bilateral and multi-lateral agreements in place, what potential solutions can your Administration propose for regional harmonization of the frequency bands to be used for trains and trackside including communications (voice), data transmission, video, traffic safety, braking systems, signaling, maneuvers, etc., taking into account the frequency bands already allocated to the mobile service on a primary basis?