



EUROPEAN COMMISSION

DIRECTORATE-GENERAL FOR COMMUNICATIONS NETWORKS, CONTENT AND TECHNOLOGY

The Director-General

Brussels,
DG CONNECT/B4

MANDATE TO CEPT
TO REVIEW THE LIMIT OF OUT-OF-BAND (OOB) EMISSIONS BELOW 5935 MHz
APPLICABLE TO VERY LOW POWER (VLP) WAS/RLAN DEVICES

1. PURPOSE

The objective of the mandate is to review and identify the limit of maximum mean e.i.r.p. density of out-of-band emissions below 5935 MHz applicable to very low power (VLP) WAS/RLANs in the 5945-6425 MHz from 1 January 2025 onwards.

2. BACKGROUND

On 20 November 2020, the CEPT published the Report B (CEPT Report 75) entitled '*Harmonised technical parameters for WAS/RLANs operating on a coexistence basis with appropriate mitigation techniques and/or operational compatibility/coexistence conditions, operating on the basis of a general authorisation*'¹ in response to the Commission mandate to study feasibility and identify harmonised technical conditions for wireless access systems including radio local area networks in the 5925-6425 MHz band for the provision of wireless broadband services. Harmonised conditions for the availability and efficient use of the frequency band 5945-6425 MHz for wireless access systems including radio local area networks (WAS/RLANs) have been developed on the basis of this report. Regarding the maximum mean e.i.r.p. density limits of VLP WAS/RLAN out-of-band emissions below 5935 MHz, they will be subject to review by the end of 2024 at the latest.

Following the adoption of CEPT Report 75, CEPT launched a review of the maximum mean e.i.r.p. density limits of VLP WAS/RLAN out-of-band emissions below 5935 MHz based on field measurements and the study of protection requirements for urban rail ITS from adjacent bands usage including interference scenarios. This gives an opportunity to review, as appropriate, the RLAN VLP OOB emission limit below 5935 MHz with regard to the possibility to relax the limit.

¹ <https://docdb.cept.org/download/ae853d-8780/CEPT%20Report%2075.pdf>

In the absence of justified evidence, a value of -37 dBm/MHz will be adopted from 1 January 2025.

3. JUSTIFICATION

Pursuant to Article 4(2) of the Radio Spectrum Decision, the Commission may issue mandates to the CEPT for the development and amendment of technical implementing measures with a view to ensuring harmonised conditions for the availability and efficient use of radio spectrum necessary for the functioning of the internal market. Such mandates shall set the tasks to be performed and their timetable.

The maximum mean e.i.r.p. density limits of VLP WAS/RLAN out-of-band emissions below 5935 MHz will be subject to review by the end of 2024 at the latest on the basis of CEPT response to this Commission mandate.

4. TASKS AND SCHEDULE

The CEPT is tasked

1. To study requirements and possible mitigation techniques for protection of urban rail ITS and to investigate interference scenarios, based on field measurements, from very low power (VLP) WAS/RLANs in the 5945-6425 MHz band to urban rail ITS operating in the 5915-5935 MHz band, in accordance with Decision (EU) 2020/1426.
2. Based on the results of task 1, to review and identify the limit of the maximum mean e.i.r.p. density of the out-of-band emissions below 5935 MHz of very low power (VLP) WAS/RLAN devices. The identified limit must protect urban rail ITS operating in the 5915-5935 MHz band in accordance with Decision (EU) 2020/1426 and will be adopted from 1 January 2025, taking into account that in the absence of justified evidence, a value of -37 dBm/MHz will apply.

The CEPT should provide deliverables according to the following schedule:

Delivery date	Deliverable	Subject
February 2024	Draft Report from CEPT to the Commission	Draft final results of task 1 and 2
June 2024	Final Report from CEPT to the Commission taking into account the outcome of the public consultation	Final results of task 1 and 2

The Commission, with the assistance of the Radio Spectrum Committee and pursuant to the Radio Spectrum Decision, may consider applying the results of this mandate in the EU, pursuant to Article 4 of the Radio Spectrum Decision.