

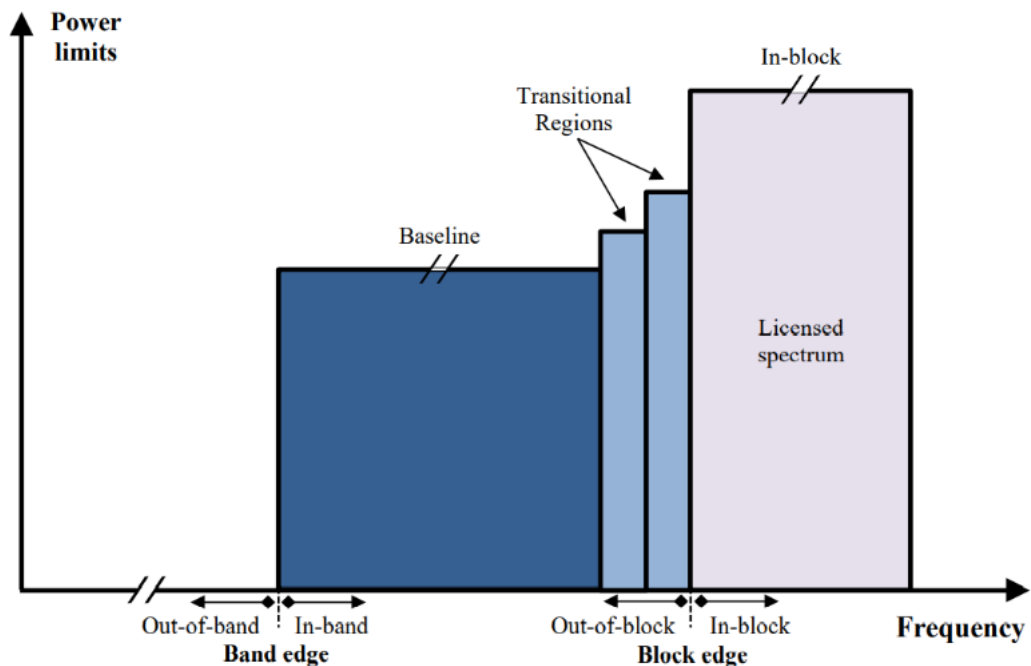
1. **Wireless Broadband Electronic Communications: G/TBT/N/EU/1043 dated 22 January 2024**

<b>Notifying Member</b>	European Union
<b>Type of Notification</b>	Regular notification
<b>Economic relevance</b>	Very High “ USD 4432.43 Mn ”
<b>Technical Relevance</b>	Technical-New

**Proposal in brief**

- The European Commission has issued a draft regulation on the harmonisation of the 40,5-43,5 GHz frequency band for terrestrial systems capable of providing wireless broadband electronic communications services in the Union.
- The document specifies technical conditions for Base Stations, called Block Edge Mask (BEM). BEM is considered an essential component to ensure coexistence between neighbouring networks capable of providing WBB ECS, in absence of bilateral or multilateral agreements between operators of such neighbouring networks.
- A BEM is an emission mask that defines power levels as a function of frequency relative to the edge of a block of spectrum assigned to an operator. It consists of several elements that are given in Table1.

**Illustration of a block edge mask**



- The in-block power limit is applied to a block assigned to an operator. The baseline power limit ensures the protection of the spectrum of other operators within the 40,5-43,5 GHz frequency band.
- The transitional region power limit enables filter roll-off from the in-block to the baseline power limit to ensure coexistence with other operators in adjacent blocks.
- Both the baseline power limit and the transitional region power limit represent out-of-block BEM elements.
- Power limits for synchronised operations are given in the table below:

Table 2  
**Base station transitional region power limit for synchronised operation**

<b>Frequency range</b>	<b>Maximum TRP</b>	<b>Measurement bandwidth</b>
Up to 50 MHz below or above an operator's block	12 dBm	50 MHz

Table 3  
**Base station baseline power limit for synchronised operation**

<b>Frequency range</b>	<b>Maximum TRP</b>	<b>Measurement bandwidth</b>
Baseline	4 dBm	50 MHz

- h. Additional conditions applying to AAS outdoor base stations is to ensure that each antenna is normally transmitting only with the main beam pointing below the horizon and in addition the antenna shall have mechanical pointing below the horizon except when the base station is only receiving.

**Analysis**

- a. The member states shall implement the said decision by 31 December 2026.