

## 2. Telecommunication Equipment- G/TBT/N/THA/699 dated 05 June 2023

<b>Notifying Member</b>	Thailand
<b>Type of Notification</b>	Regular Notification
<b>Economic relevance</b>	High
<b>Technical Relevance</b>	Technical-New

### Proposal in brief

- a) Thailand has issued a draft of technical standard regulation on “telecommunication equipment for **base station and repeater** in cellular land mobile service using Global System for Mobile Communications – Railway (GSM-R) technology.”
- b) The draft technical standard prescribes standards for base stations and repeaters in cellular land mobile service using GSM-R technology in order to support railway transportation. It specifies the minimum technical characteristics of telecommunication equipment for base station and repeater in cellular land mobile service using Global System for GSM-R technology.
- c) Requirements under the said standard include but are not limited to the following:
  - a. Radio frequency requirements for base station - technical requirements of user equipment shall comply with the ETSI EN 301 502 V12.5.1 or newer version: Global System for Mobile communications (GSM); Base Stations (BS) equipment; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU.
  - b. Radio frequency requirements for Repeater - ETSI EN 300 609-4: Global System for Mobile communications (GSM); Part 4: Harmonized EN for GSM Repeaters covering the essential requirements of article 3.2 of the Radio Equipment and Telecommunications Terminal Equipment (R&TTE) Directive viz. EU Directive 1995/5/EC of 9 March 1999.
  - c. Electrical safety requirements – electrical safety requirements shall comply with the following standards:
    - i. 3.3.1 IEC 60950-1: Information Technology Equipment – Safety – Part 1: General Requirements.
    - ii. 3.3.2 TIS 1561 – 2556: or current version Information Technology Equipment - Safety: General Requirements
    - iii. 3.3.3 IEC 62368–1: Audio/Video, information and Communication technology equipment - Part 1: Safety Requirements
    - iv. 3.3.4 TIS 62368 Part 1-2563: or current version Audio/Video, information and Communication technology equipment - Part 1: Safety Requirements
  - d. Radiation exposure requirements – The user of equipment shall comply with the safety standard for the use of radiocommunication equipment on human health safety measures.
- d) The user shall present its Conformity with the standards mentioned in the technical standards.

### Analysis

- Thailand is adopting international standards for telecommunication equipment for base stations and repeaters in cellular land mobile service using Global System for Mobile Communications – Railway (GSM-R) technology.
- In the standards for radio equipment requirements for repeaters, the regulation mentions R&TTE Directive. However, the R&TTE Directive was later repealed by the RED Directive (2014/53/EU), referred to in the regulation at other places. There is a need to clarify whether the reference to R&TTE Directive is an error, whether and it was supposed to be the RED Directive.