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Federal Network Agency for Electricity,
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SSB RU 016

Interface description for frequency-modulated VHF audio broadcast transmitters

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Notified in accordance with Directive (EU) 2015/1535 of the European Parliament and of the Council of 9 September 2015 laying down a procedure for the provision of information in the field of technical regulations and of rules on Information Society services (OJ L 241, 17.9.2015, p. 1).

This interface description consists of 4

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1 General information

Directive 2014/53/EU of the European Parliament and of the Council of 16 April 2014 (OJ L 153/62) on the harmonisation of the laws of the Member States relating to the making available on the market of radio equipment and repealing Directive 1999/5/EC was transposed in the Federal Republic of Germany by the Act on the making available of radio equipment on the market (Act on Radio Equipment – FuAG) of 27 June 2017 (Federal Law Gazette (BGBl.) I No 42, p. 1947), last amended by Article 1 of the Act of 14 May 2024 (BGBl. I No 148).

Pursuant to § 33(1) FuAG, the Federal Network Agency shall provide specific and appropriate specifications of the radio interfaces as regards radio equipment operated in frequency bands for which the conditions of use are not harmonised throughout the Community.

This interface specification (SSB) contains information necessary to enable the manufacturer to carry out the relevant tests in relation to the essential requirements applicable to the relevant radio equipment in accordance with the provisions of FuAG § 4(2) and, where applicable, § 4(3).

Furthermore, radio equipment must be designed in such a way that other basic requirements under § 4(1)(1) and (2) FuAG are observed.

For the commissioning and operation of radio equipment, the provisions concerning frequency allocation, in particular those contained in Part 6 of the Telecommunications Act (TKG) of 23 June 2021 (Federal Law Gazette I No 35, p. 1858), last amended on 14 May 2024 by Article 35 of the Act of 06 May 2024 (Federal Law Gazette I No 149), remain unaffected.

The Ordinance on the Detection Procedure for Limiting Electromagnetic Fields (BEMFV) of 20 August 2002 (OJ I No 60, p. 3366), last amended on 4 July 2017 by Article 3(3) of the Act of 27 June 2017 (OJ I No 42, p. 1947), must be complied with.

The Federal Network Agency shall order the enactment of the interface specification in its Official Gazette and publish its reference therein; only the German edition is binding.

2 Single Market Clause

Goods lawfully marketed in another Member State of the European Union or in Turkey, or originating and lawfully marketed in an EFTA State that is a contracting party to the EEA agreement are presumed to be compatible with this measure. The application [of this measure] is subject to Regulation (EU) 2019/515 of 19 March 2019 on the mutual recognition of goods lawfully marketed in another Member State from 19 April 2020.

3 Scope of application

This interface description describes the essential requirements in relation to FuAG § 4(2) for radio equipment for frequency modulated VHF sound broadcasting transmitters.

Radio equipment within the meaning of this interface specification is to be used for its intended purpose and operated in accordance with the manufacturer's instructions. Directive 2014/53/EU requires manufacturers to provide radio equipment users with appropriate information to enable them to operate the radio equipment as intended and in accordance with the provisions of said Directive. This information shall also include appropriate instructions on cabling and antenna types to be used in conjunction with the radio equipment.

This interface description replaces Reg TP SSB RU 002, edition June 2005, notified under No 2004/0445/D.

4 Documentation

The following cited documents are necessary for the application of this document. For dated references, only the referenced edition of the document shall apply. For undated references, the most recent edition of the referenced document (including any amendments) shall apply.

Presumption of conformity may only be based on versions of harmonised European standards that are included in the current list of harmonised standards within the framework of Directive 2014/53/EU and have been published by the European Commission in the Official Journal of the EU.

- Frequency plan in accordance with the Telecommunications Act (TKG) on the distribution of the frequency range from 0 kHz to 3000 GHz among spectrum usages and on the definitions for such use
Published by the Federal Network Agency
- Administrative Regulation for Radio Spectrum Allocations for the Broadcasting Service (VVRuFu) Issued by the Federal Network Agency
- Radio Regulations¹ (VO Radio),
International Telecommunications Union (ITU), Geneva
(Règlement des radiocommunications, Union internationale des télécommunications (UIT), Genève)
- ETSI EN 302 018
Transmitting equipment for the Frequency Modulated (FM) sound broadcasting service; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU
- ETSI EN 301 489-53
ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 53: Specific conditions for terrestrial sound broadcasting and digital TV broadcasting service transmitters and associated ancillary equipment Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU

¹ The Radio Regulations are available in Arabic, Chinese, English, French, Russian and Spanish. In all cases of dispute or doubt, the French text shall prevail.

5 Technical interface requirements

This SSB contains the technical interface requirements for radio equipment for frequency modulated VHF sound broadcasting transmitters:

Table 1: Frequency-modulated VHF sound broadcasting transmitters				
	No	Parameter <i>(Description)</i>	Description <i>(Description)</i>	Comments <i>(Comments)</i>
Normative section	1	Radio services <i>(Radiocommunication Service)</i>	RADIO SERVICE	
	2	Intended use/Application <i>(Application)</i>	VHF sound broadcasting, analogue	
	3	Frequency range <i>(Frequency band)</i>	87,5 – 108 MHz	VHF (Vol. II)
	4	Channelling <i>(Channelling)</i>		
	5	Modulation/occupied bandwidth <i>(Modulation/Occupied bandwidth)</i>	Frequency Modulation Mono: 180KF9EGN Stereo: 300KF9EHF	in accordance with Radio Regulations
	6	Direction/distance <i>(Direction/Separation)</i>		
	7	Transmission power/power density <i>(Transmit power/Power density)</i>		The specific value is stipulated in the individual allocation.
	8	Channel access and occupancy rules <i>(Channel access and occupation rules)</i>		
	9	Approval procedure <i>(Authorisation regime)</i>	Individual allocation	On the basis of the part six of the Telecommunications Act (TKG).
	10	Additional essential requirements <i>(Additional essential requirements)</i>	Frequency tolerance ± 2kHz (for medium power > 50W) ± 3kHz (for medium power ≤ 50W)	in accordance with Radio Regulations Volume 2
	11	Frequency planning assumptions <i>(Frequency planning assumptions)</i>		
Information sec-	12	Planned changes <i>(Planned changes)</i>		
	13	References <i>(References)</i>	ETSI EN 302 018 ETSI EN 301 489-53	
	14	Notification number <i>(Notification number)</i>		
	15	Remarks <i>(Remarks)</i>		