



Bundesnetzagentur

Federal Network Agency for Electricity,
Gas, Telecommunications, Post and
Railways

SSB LA 047

Interface specification for DECT radio equipment for professional uses

Edition: September 2025

Notification number under Directive (EU) 2015/1535:
2025/0673/DE

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).

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1 General

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 provision of radio equipment on the market (Radio Equipment Act (Funkanlagengesetz – 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 Section 4(2) and, where applicable, Section 4(3).

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

As regards the commissioning and operation of radio equipment, the provisions concerning frequency allocation, in particular those contained in Part 6 of the Telecommunications Act (Telekommunikationsgesetz – TKG) of 23 June 2021 (BGBl. I No 35, p. 1858), as last amended on 30 July 2025 by Article 1 of the Act of 24 July 2025 (BGBl. I No 181), remain unaffected.

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 Internal 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 Agreement on the European Economic Area are deemed 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 basic requirements pertaining to radio equipment for wireless telecommunication using DECT technology (Digital Enhanced Cordless Telecommunications) technology for professional applications in the frequency range 1 880 MHz to 1 900 MHz.

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 suitable instructions on cabling and antenna types to be used in conjunction with the radio equipment.

This interface specification replaces SSB LA 031, September 2015 edition, notified under No 2015/0636/D.

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4 Documents

The following cited documents are essential 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 be based solely 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 band from 0 kHz to 3 000 GHz among spectrum usages and on the definitions for such use published by the Federal Network Agency
- Administrative provisions for frequency allocations in non-public mobile land radio (VVnömL) published by the Federal Network Agency
- Radio Regulations¹ (VO Funk), International Telecommunication Union (ITU), Geneva (Règlement des radiocommunications, Union internationale des télécommunications (UIT), Geneva)
- ETSI EN 301 406-1 Digital Enhanced Cordless Telecommunications (DECT); Harmonised Standard for access to radio spectrum; Part 1: DECT, DECT Evolution and DECT ULE
- ETSI EN 301 406-2 Digital Enhanced Cordless Telecommunications (DECT); Harmonised Standard for access to radio spectrum; Part 2: DECT-2020 NR
- ERC/DEC/(94)03 ERC Decision of 24th October 1994 on the frequency band to be designated for the coordinated introduction of the Digital European Cordless Telecommunications system

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

5 Technical interface requirements

This interface specification includes the technical interface requirements pertaining to DECT radio equipment for professional uses in the frequency range 1 880 MHz to 1 900 MHz.

Table 1: DECT radio equipment for professional uses				
	No	Parameter <i>(Description)</i>	Beschreibung <i>(Description)</i>	Bemerkung <i>(Comments)</i>
Normative part	1	Funkdienst <i>(Radiocommunication Service)</i>	MOBILE RADIO SERVICE	
	2	Verwendungszweck/Anwendung <i>(Application)</i>	DECT	
	3	Frequenzbereich <i>(Frequency band)</i>	1 880 MHz – 1 900 MHz	
	4	Kanalbelegung <i>(Channelling)</i>	1 728 MHz	
	5	Modulation/belegte Bandbreite <i>(Modulation/Occupied bandwidth)</i>	GFSK, BPSK, QPSK	
	6	Richtung/Abstand <i>(Direction/Separation)</i>	TDD	
	7	Sendeleistung/Leistungsdichte <i>(Transmit power/Power density)</i>	> 250 mW (ERP) to 4 W (EIRP)	
	8	Kanalzugangs- und Belegungsregeln <i>(Channel access and occupation rules)</i>	Instant Dynamic Channel Selection (iDCS)	
	9	Genehmigungsverfahren <i>(Authorisation regime)</i>	Individual allocation	
	10	Wesentliche Zusatzanforderungen <i>(Additional essential requirements)</i>	Maximum permissible isotropic antenna gain of 12 dBi by directional antenna. Permanent allocation of frequencies or individual frequency channels is not permitted. The allocation is strictly location-specific.	As per VVnömL
	11	Frequenzplanungsannahmen <i>(Frequency planning assumptions)</i>		
Informative part	12	Vorgesehene Änderungen <i>(Planned changes)</i>		
	13	Referenzen <i>(References)</i>	EN 301 406-1, EN 301 406-2 ERC/DEC/(94)03	
	14	Notifizierungsnummer <i>(Notification number)</i>	2025/0673/DE	
	15	Anmerkungen <i>(Remarks)</i>		