



Bundesnetzagentur

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

Draft

# SSB LA-NOE 045

Draft

## Interface description for radio equipment for radio location applications

Edition: November 2023

The notification is registered with the Commission under No xxxx/xxxx/D.

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).

## 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 (Radio Equipment Act – FuAG) of 27 June 2017 (Federal Law Gazette (BGBl.) I No 42, p. 1947), last amended by Article 52 of the Act of 23 June 2021 (BGBl. I No 35, p. 1858).

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 (BGBl. I No 35, p. 1858), last amended on 1 August 2022 by Article 9 of the Act of 20 July 2022 (BGBl. I No 27, p. 1166), 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 Area of application

This interface description describes the essential requirements relating to the FuAG § 4(2) for radio equipment for radio location applications. These include applications used to determine the position, speed and/or other properties of an object or to obtain information related to those parameters.

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 specification replaces SSB LA-NOE 022, July 2013 edition, notified under 2013/0436/D.

### 3 Documents and contact information:

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
- VFG. 087/2018 General allocation of frequencies for low power radio motion detectors, tank level probing radar (TLPR) and ground-based radars with synthetic aperture (Ground Based Synthetic Aperture Radar, GBSAR), Official Journal of the Federal Network Agency No. 13 of 11.7.2018
- Radio Regulations<sup>1</sup> (VO Funk),  
International Telecommunications Union (ITU), Geneva  
(Règlement des radiocommunications, Union internationale des télécommunications (UIT), Genève)
- CEPT/ERC/REC 70-03  
Relating to the use of Short Range Devices (SRD)
- EN 300 440  
Short Range Devices (SRD); Radio equipment to be used in the 1 GHz to 40 GHz frequency range; **Harmonised Standard** covering the essential requirements of article 3.2 of Directive 2014/53/EU

Federal Network Agency for Electricity, Gas, Telecommunications, Post and Railways  
Unit 421  
Seidelstr. 49, 13405 Berlin

Telephone: +49 30 4374 0  
Fax: +49 30 4374 1180  
Email: [ssb@bnetza.de](mailto:ssb@bnetza.de)  
Internet: [www.bundesnetzagentur.de](http://www.bundesnetzagentur.de)

<sup>1</sup> 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.

#### 4 Technical interface requirements

This SSB includes the technical interface requirements for radio equipment for radio location applications in the following frequency ranges:

Table 1: 9.20 GHz – 9.50 GHz and 13.40 GHz – 14.00 GHz

Table 2: 24.00 GHz – 24.05 GHz

Table 3: 24.05 GHz – 24.15 GHz

<b>Table 1:</b> Low power radio motion detectors 9.20 GHz – 9.50 GHz and 13.40 GHz – 14.00 GHz				
	No.	Parameter	Description (Description)	Comments (Comments)
Normative section	1	Radio service (Radiocommunication Service)		
	2	Intended use/Application (Application)	Low power radio motion detectors	
	3	Frequency band (Frequency band)	9.20 GHz – 9.50 GHz 13.40 GHz – 14.00 GHz	
	4	Channelling (Channelling)		
	5	Modulation/occupied bandwidth (Modulation/Occupied bandwidth)		
	6	Direction/separation (Direction/Separation)		
	7	Transmission power/power density (Transmit power/Power density)	25 mW (EIRP)	
	8	Channel access and occupation rules (Channel access and occupation rules)		
	9	Approval procedure (Authorisation regime)	General allocation	
	10	Additional essential requirements (Additional essential requirements)		
	11	Frequency planning assumptions (Frequency planning assumptions)		
Information sec-	12	Planned changes (Planned changes)		
	13	References (References)	EN 300 440, CEPT/ERC/REC 70-03	
	14	Notification number (Notification number)		
	15	Remarks (Remarks)		

**Table 2:** Low power radio motion detectors 24.00 GHz – 24.05 GHz

	No.	Parameter	Description (Description)	Comments (Comments)
Normative section	1	Radio service (Radiocommunication Service)		
	2	Intended use/Application (Application)	Low power radio motion detectors	
	3	Frequency band (Frequency band)	24.00 GHz – 24.05 GHz	
	4	Channelling (Channelling)		
	5	Modulation/occupied bandwidth (Modulation/Occupied bandwidth)		
	6	Direction/separation (Direction/Separation)		
	7	Transmission power/power density (Transmit power/Power density)	100 mW (EIRP)	
	8	Channel access and occupation rules (Channel access and occupation rules)		
	9	Approval procedure (Authorisation regime)	General allocation	
	10	Additional essential requirements (Additional essential requirements)		
	11	Frequency planning assumptions (Frequency planning assumptions)		
Information section	12	Planned changes (Planned changes)		
	13	References (References)	EN 300 440	
	14	Notification number (Notification number)		
	15	Remarks (Remarks)		

**Table 3:** Low power radio motion detectors 24.05 GHz – 24.15 GHz

	No.	Parameter	Description (Description)	Comments (Comments)
Normative section	1	Radio service (Radiocommunication Service)		
	2	Intended use/Application (Application)	Low power radio motion detectors	
	3	Frequency band (Frequency band)	24.05 GHz – 24.15 GHz	
	4	Channelling (Channelling)		
	5	Modulation/occupied bandwidth (Modulation/Occupied bandwidth)		
	6	Direction/separation (Direction/Separation)		
	7	Transmission power/power density (Transmit power/Power density)	100 mW (EIRP)	
	8	Channel access and occupation rules (Channel access and occupation rules)		
	9	Approval procedure (Authorisation regime)	General allocation	
	10	Additional essential requirements (Additional essential requirements)		
	11	Frequency planning assumptions (Frequency planning assumptions)		
Information section	12	Planned changes (Planned changes)		
	13	References (References)	EN 300 440, ERC/REC 70-03	
	14	Notification number (Notification number)		
	15	Remarks (Remarks)		