



Bundesnetzagentur

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

SSB OR 026

Interface specification for Search and rescue transponder for rescue at sea - Radar-SART - (not AIS SART)

Edition: September 2025

Notification number under Directive (EU) 2015/1535:
2025/0675/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).

Diese Schnittstellenbeschreibung enthält 4

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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.

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 Nr. 35, S. 1858), last amended on 30 July 2025 by Article 1 of the Act of 24 July 2025 (BGBl. I No 181), remain unaffected.

Maritime regulations regarding radio equipment on ships must also be observed. The SSB is no substitute for approval as defined in Directive 2014/90/EU of the European Parliament and of the Council of 21 July 2014 on marine equipment, as amended.

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 Range of validity

This interface specification outlines the basic requirements for search and rescue transponders for maritime search and rescue (SART) – radar SART¹ – (not AIS SART) in accordance with Section 4, Paragraph 2 of the German Radio Act (FuAG).

Radio equipment within the meaning of this SSB should 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.

¹ Search and Rescue Transponder

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This interface specification replaces SSB OR 015, edition September 2013, notified under No 2013/0657/D.

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 according to the Telecommunications Act (TKG) on the allocation of the frequency range from 0 kHz to 3000 GHz among frequency uses and on the specifications for these frequency uses.
Published by the Federal Network Agency
- Ordinance 12/2017, General allocation of frequencies in the 2900-3100 MHz and 9200-9500 MHz frequency bands for radar equipment of the navigational radio service/maritime navigational radio service for navigational purposes on ships and for navigational aids on navigational aids; Official Gazette of the Federal Network Agency No 04 of 22 February 2017
- Radio Regulations² (VO Funk),
International Telecommunication Union (ITU), Geneva
(Règlement des radiocommunications, Union internationale des télécommunications (UIT), Geneva)
- ITU-R M. 628
Technical characteristics for search and rescue radar transponders
- ITU-R SM. 329
Unwanted emissions in the spurious domain
- ITU-R SM.1541
Unwanted emissions in the out-of-band domain
- EN 60945
Maritime navigation and radiocommunication equipment and systems - General requirements - Methods of testing and required test results (IEC 60945)
- EN 61097-1
Global maritime distress and safety system (GMDSS); Part 1: Marine search and rescue radar transponder (SART); Operational and performance requirements, methods of testing and required test results (IEC 61097-1)
- Directive 2014/90/EU of the European Parliament and of the Council of 21 July 2014 on marine equipment

² 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 SSB contains the technical interface requirements for radio equipment for search and rescue transponders for maritime rescue (radar SART) in the frequency range 9 200 – 9 500 MHz.

Table: Search and rescue transponder (radar-SART)				
	No	Parameter <i>(Description)</i>	Beschreibung <i>(Description)</i>	Bemerkung <i>(Comments)</i>
Normative part	1	Funkdienst <i>(Radiocommunication Service)</i>	RADIODETERMINATION SERVICE	
	2	Verwendungszweck/Anwendung <i>(Application)</i>	Search and rescue transponder (Radar SART)	Navigation radio for maritime shipping
	3	Frequenzbereich <i>(Frequency band)</i>	9 200 – 9 500 MHz	
	4	Kanalbelegung <i>(Channelling)</i>	P0N	
	5	Modulation/belegte Bandbreite <i>(Modulation/Occupied bandwidth)</i>		
	6	Richtung/Abstand <i>(Direction/Separation)</i>		
	7	Sendeleistung/Leistungsdichte <i>(Transmit power/Power density)</i>	at least 400 mW (+26 dBm) EIRP	
	8	Kanalzugangs- und Belegungsregeln <i>(Channel access and occupation rules)</i>		
	9	Genehmigungsverfahren <i>(Authorisation regime)</i>	General allocation	
	10	Wesentliche Zusatzanforderungen <i>(Additional essential requirements)</i>		
	11	Frequenzplanungsannahmen <i>(Frequency planning assumptions)</i>		
Informative part	12	Vorgesehene Änderungen <i>(Planned changes)</i>		
	13	Referenzen <i>(References)</i>	ITU-R M. 628; ITU-R SM. 329, ITU-R SM. 1541 EN 60945, EN 61097-1	
	14	Notifizierungsnummer <i>(Notification number)</i>	2025/0675/DE	
	15	Anmerkungen <i>(Remarks)</i>		