

**Agreement between Communications Authorities of  
the Federal Republic of Germany and the Republic of Poland**

**concerning the offshore use of the following frequency bands:**

**700 MHz (694-791 MHz),  
800 MHz (791-862 MHz),  
900 MHz (880-960 MHz),  
1500 MHz (1427-1517 MHz),  
1800 MHz (1710-1880 MHz),  
2100 MHz (1920-2170 MHz),  
2600 MHz (2500-2690 MHz),  
3600 MHz (3400-3800 MHz)**

**for wideband systems capable of providing terrestrial electronic communications services  
in the border areas of exclusive economic zones**

# 1 Introduction

- 1.1 The agreement describes the procedures of coordination of civil mobile wideband communication networks operating on fixed offshore installations in the border areas of exclusive economic zones (EEZ)<sup>1</sup> as defined in United Nations Convention on the Law of the Sea (UNCLOS) in Baltic Sea Area.
- 1.2 The Communication Authority of the Federal Republic of Germany is Federal Network Agency.
- 1.3 The Communication Authority of the Republic of Poland is Office of Electronic Communications.

# 2 Principles and definitions

- 2.1 The 700 MHz-band covers the frequencies from 694 to 791 MHz with the Frequency Division Duplex (FDD) arrangement (703-733 MHz uplink, 758-788 MHz downlink), excluding Supplemental Downlink (SDL, 738-758 MHz in the duplex gap), according to ECC Decision (15)01.
- 2.2 The 800 MHz-band covers the frequencies from 791 to 862 MHz with the Frequency Division Duplex (FDD) arrangement (791-821 MHz downlink, 832-862 MHz uplink), according to ECC Decision (09)03.
- 2.3 The 900 MHz-band covers the frequencies from 880 to 960 MHz with the Frequency Division Duplex (FDD) arrangement (880-915 MHz uplink, 925-960 MHz downlink), according to ECC Decision (06)13.
- 2.4 The 1500 MHz-band covers the frequencies from 1427 to 1517 MHz for SDL, according to ECC Decision (13)03 and ECC Decision (17)06.
- 2.5 The 1800 MHz-band covers the frequencies from 1710 to 1880 MHz with the Frequency Division Duplex (FDD) arrangement (1710-1785 MHz uplink, 1805-1880 MHz downlink), according to ECC Decision (06)13.
- 2.6 The 2100 MHz-band covers the frequencies from 1920 to 2170 MHz with the Frequency Division Duplex (FDD) arrangement (1920-1980 MHz uplink, 2110-2170 MHz downlink), according to ECC Decision (06)01.

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<sup>1</sup> The exclusive economic zones start at 12 nautical miles (22.224 km) from the coastline.

- 2.7 The 2600 MHz-band covers the frequencies from 2500 MHz to 2690 MHz with the FDD arrangement (2500-2570 MHz uplink, 2620-2690 MHz downlink) and 2570 MHz to 2620 MHz for SDL or Time Division Duplex (TDD), according to ECC Decision (05)05.
- 2.8 The 3600 MHz-band covers the frequencies from 3400 MHz to 3800 MHz with Time Division Duplex (TDD) arrangement, according to ECC Decision (11)06.
- 2.9 This agreement is based on the concept of field strength levels and preferential Physical-layer Cell Identities (PCIs), when LTE or 5G NR is used, as defined in Annex 1. Preferential PCI shall be used in border areas to improve coverage and service when channel center frequencies are aligned.
- 2.10 This agreement covers the coordination of base stations. User equipment, or terminals, are allowed to be used on non-interfering basis, in accordance with ITU RR 4.4.

### 3 Coordination procedure

- 3.1 The coordination threshold in this agreement is based on the concept of field strength level of 5 MHz block assignment.
- 3.2 In case of other frequency block sizes, a value of the following formula should be added to the field strength values:

$$A = 10 * \log \frac{\text{frequency block size [MHz]}}{5 \text{ MHz}} \text{ [dB]}$$

- 3.3 For field strength calculations the latest version of Recommendation ITU-R P.1546 "Method for point-to-area predictions for terrestrial services in the frequency range 30-4000 MHz" shall be used.
- 3.4 The field strength values in this agreement are based on a receiving antenna height of 3 m (above mean sea level), 10% of the time and 50% of the locations.
- 3.5 The respective bands may be used without coordination between the countries being party to this agreement if the predicted field strength produced by a base station does not exceed the threshold at the borderline of EEZ areas for the respective band given in the table below:

Frequency band [MHz]	Threshold @borderline of EEZ areas [dBμV/m/5 MHz]
700	59
800	59

Frequency band [MHz]	Threshold @borderline of EEZ areas [dBμV/m/5 MHz]
900	59
1500 <sup>2</sup>	65
1800	65
2100	65
2600	65 for FDD and synchronized TDD BS 30 for unsynchronized TDD BS
3600	79 for FDD and synchronized TDD BS 15 for unsynchronized TDD BS

## 4 Individual operator agreements

- 4.1 Establishment of arrangements between operators shall be encouraged to the extent possible. Subject to agreement between operators other technical characteristics can be used, e.g. other field strength limits or propagation models. Such arrangements are subject to consent of the administrations concerned. In particular, before giving consent to such arrangements, the administrations concerned should take care that all network operators concerned are parties in such an arrangement.
- 4.2 Any case of interference shall as far as possible be resolved among the operators concerned. If not resolved, assistance might be sought from the administrations. Because of the location, enforcement could be limited to an administrative activities.

## 5 Status of existing assignments

This Agreement shall not apply to existing assignments which are already coordinated, possible harmful interference caused by them shall be accepted.

## 6 Revision and cancellation

- 6.1 This agreement may be revised upon request of any Administration with the consent of the other Administration.
- 6.2 Any Administration is entitled to withdraw from this Agreement with a notice of at least six months.

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<sup>2</sup> In the Federal Republic of Germany only the sub-band 1452-1492 MHz is used for MFCN.

## 7 Entry into force

7.1 This agreement shall enter into force on 1 July 2024.

7.2 This agreement has been drawn up in 2 identical copies, one for each Administration.

Done by correspondence

For the Communication Authority of  
the Federal Republic of Germany

Frankfurt

Place

24/06/2024

Date

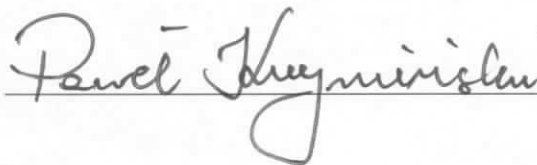


For the Communication Authority of  
the Republic of Poland

Warsaw 31.05.2024

Place

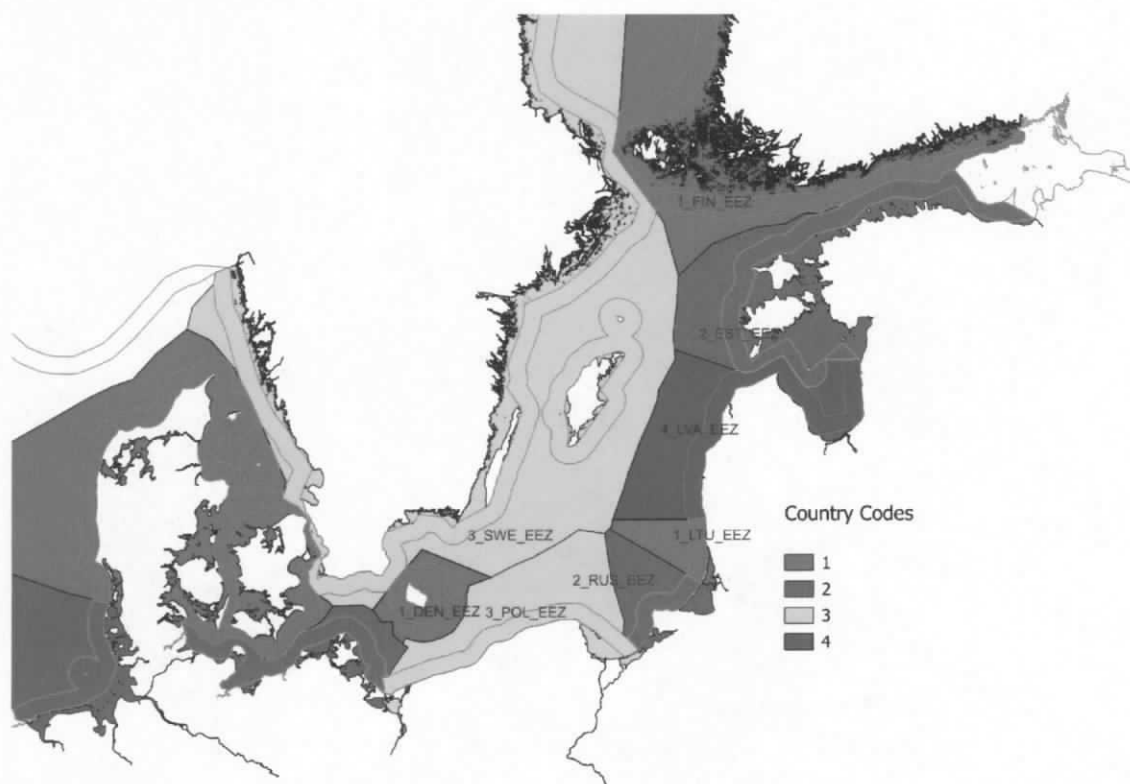
Date



**Allocation of preferential Physical-layer Cell Identities (PCIs)  
for LTE and 5G NR in 700 MHz, 800 MHz, 900 MHz, 1500 MHz, 1800 MHz, 2100 MHz,  
2600 MHz and 3600 MHz frequency bands**

*Table 1 PCI sub-sets for LTE and NR for use in border areas*

Set	A	B	C	D	E	F
PCIs for LTE	0..83	84..167	168..251	252..335	336..419	420..503
PCIs for NR	0..83 504..587	84..167 588..671	168..251 672..755	252..335 756..839	336..419 840..922	420..503 923..1007
Set preferential to <sup>3</sup>	POL <sup>4</sup>	D <sup>5</sup>	D	D	POL	POL



*Figure 1 Exclusive Economic Zone borders*

<sup>3</sup> preferential PCIs to one Party are non-preferential to the other Party.

<sup>4</sup> POL – Republic of Poland

<sup>5</sup> D – Federal Republic of Germany