

AGREEMENT

between the Telecommunication Administration of the Russian Federation
and the Telecommunication Administration of Norway
On Use of the Frequency Band 2500-2690 MHz
by Land Mobile Service and Fixed Service Stations in Border Areas

Oslo, 10 July 2015

Preamble

In accordance with Article 6 of the ITU's Radio Regulations, the Telecommunication Administration of the Russian Federation and the Telecommunication Administration of Norway, hereinafter, the Parties, acting with a view to preventing mutual interference and optimizing the use of frequency spectrum, enter into this Agreement on the Use of the Frequency Band 2500-2690 MHz by Land Mobile Service and Fixed Service Stations in Border Areas.

1. The Principles

1.1. This Agreement is based on ECC Recommendation (11)05.

1.2. This Agreement is based on the concept of coordination field strength threshold levels and the concept of preferential and non-preferential physical-layer cell identifiers (PCI) for LTE systems.

1.3. The Parties' preferential and non-preferential PCIs are shown in Annex 1 to this Agreement.

2. Use of Frequency Bands without Coordination

Either Party may use the frequency band 2500–2690 MHz without coordination with the other Party if the following conditions are met:

- For the Norwegian stations located east of the line that is defined by the points with the coordinates (69N33'00" 30E11'00") and (70N32'18" 30E38'09"), the average field strength produced by a cell does not exceed the threshold of 21 dB μ V/m/5MHz on the land border and, in the point in the cold sea with the coordinates (70N08'30" 31E35'00"), does not exceed the values listed in Annex 2 to this Agreement (the points mentioned above are shown in Annex 3);
- For other stations, the thresholds specified in Annex 2 to this Agreement are not exceeded.

3. General

3.1. If the conditions defined in Article 2 are not met, the frequency assignment in question must be coordinated with the other Party.

3.2. The relevant coordination request shall contain the information specified in Annex 4 to ECC Recommendation (11)05. The coordination request format shall be consistent with the ITU Radiocommunication Bureau's Circular No. CR/118 dated 31 March 1999.

3.3. Coordination of a frequency assignment shall not take more than 65 days from the date of receipt of the coordination request by e-mail and/or by fax. If no reply is received during that period, the requesting Party shall send a reminder stating that the

coordination request review period has expired. If no reply is received within 20 days from the date of receipt of the reminder, the frequency assignment shall be deemed coordinated.

3.4. Field strength values shall be calculated using the latest version of ITU-R Recommendation P.1546.

3.5. Field strength values shall be calculated for receiving antenna height of 3 m above the ground for 10% of the time and for 50% of the locations.

3.6. If harmful interference is caused by a station covered by this Agreement, the Procedure of ITU RR Article 15, section VI shall be applied. The Party with jurisdiction over such station shall, upon receipt of the harmful interference report, take immediate action required to eliminate the interference and advise the other Party accordingly.

4. Modification and Termination of the Agreement

4.1. Additions and/or changes to this Agreement may be made by mutual agreement of the Parties.

4.2. Either Party may terminate this Agreement by giving a six months' notice to the other Party in writing.

5. Entry into Force

5.1. This Agreement shall enter into force in six months from the date of signing.

5.2. This Agreement is executed in the English language, in two originals, one for each Party.

On behalf of the
Telecommunication
Administration of the
Russian Federation



Andrey Zheglov

On behalf of the
Telecommunication
Administration of Norway



Torstein Olsen

Oslo, 10 July 2015

**Allocation of Physical-Layer Cell Identifiers (PCIs)
between the Telecommunication Administrations
of the Russian Federation and Norway**

The allocation of physical-layer cell identifiers (PCIs) between the telecommunication administrations of the Russian Federation and Norway is shown in Table 1.

Table 1

PCI numbers	Set A 0...83	Set B 84...167	Set C 168...251	Set D 252...335	Set E 336...419	Set F 420...503
State	Norway	Norway	Russian Federation	Norway	Russian Federation	Russian Federation

Field Strength Threshold Values

Field strength threshold values for receiving antenna height of 3 meters above the ground are shown in Table 1.

Table 1

Frequency band, MHz	Field strength on the state border, dB μ V/m		Field strength 6 km into the neighboring state's territory, dB μ V/m	
	Bandwidth (BW), MHz		Bandwidth (BW), MHz	
	5	more than 5	5	more than 5
2500–2620	21	$21 + 10 \times \log(BW/5)$	-	-
2620–2690 (LTE stations with preferential physical-layer cell identifiers (PCIs) deployed on both sides of the state border)	65	$65 + 10 \times \log(BW/5)$	49	$49 + 10 \times \log(BW/5)$
2620–2690 (LTE stations with non- preferential physical-layer cell identifiers (PCIs) deployed on both sides of the state border)	37	$37 + 10 \times \log(BW/5)$	-	-
2620–2690 (stations of various systems other than LTE deployed on both sides of the state border)	65	$65 + 10 \times \log(BW/5)$	37	$37 + 10 \times \log(BW/5)$

