

**Agreement between the Estonian Technical Surveillance
Authority and the Finnish Communications Regulatory
Authority**

**concerning the use of the bands 1710-1785/1805-1880 MHz for
terrestrial systems**

December 2011, Tallinn

1. Principles and definitions

- 1.1. This Agreement is based on the latest draft of ECC Recommendation (08)02¹ and the latest revision of ECC Recommendation (05)08.
- 1.2. This agreement covers the co-ordination of base stations. User equipment or terminals are allowed to be used on non interfering basis in accordance with ITU RR 4.4.
- 1.3. This Agreement is based on the concept of field strength levels as well as preferential codes for UMTS system as defined in Annex 1. For the purpose of this agreement the Zones referred to in the following paragraphs are defined in Annex 2.

2. Use of frequencies without co-ordination by administrations

- 2.1. Estonia may use the band 1805 - 1880 MHz without co-ordination with Finland, if the predicted mean field strength produced by a base station does not exceed the field strength thresholds defined in Annex 1 at a height of 3 m above the surface at Zone F or beyond.
- 2.2. Finland may use the band 1805 - 1880 MHz without co-ordination with Estonia, if the predicted mean field strength produced by a base station does not exceed the field strength thresholds defined in Annex 1 at a height of 3 m above the surface at Zone E or beyond.

¹ ECC PT1 agreed to develop a cross border new ECC Recommendation covering all relevant mobiles bands (800 MHz, 900 MHz, 1800 MHz, 2,1 & 2,6 GHz, 3,5 GHz) and technologies by September 2012

3. General

- 3.1. If a frequency assignment has to be co-ordinated, the period of co-ordination shall not exceed 45 days from the date of the receipt of the request and 20 days after the reminder. If no reply is received after 65 days the frequency assignment shall be considered as co-ordinated.
- 3.2. The exchange of the co-ordination information shall be in electronic form and sent by e-mail or by other electronic means as appropriate.
- 3.3. Preliminary co-ordination may take place between the operators concerned. The results of such preliminary co-ordination must be approved by the administrations.
- 3.4. A complaint in case of harmful interference shall be based on the median values of measurements of field strength, performed at 3 meter of receiving antenna height at least on two different occasions over a range of at least 100 m along the zone.
- 3.5. In the presence of interference, the report of harmful interference shall be presented in accordance with Appendix 10 of the Radio Regulations. The other administration shall take all possible steps in order to eliminate the interference.
- 3.6. The field strength values in this agreement are based on a receiving antenna height of 3 m, 10% of the time and 50% of the locations.
- 3.7. The latest version of ITU-R P.1546 " Method for point-to area predictions for terrestrial services in the frequency range 30-3000 MHz" shall be used.

4. Revision and cancellation

- 4.1. This agreement may be revised or cancelled as desired by one of the administrations with a notice of twelve months.

5. Enter into force

- 5.1. This agreement comes into force from 01.01.2012.
- 5.2. This agreement has been drawn in two identical copies, one for Estonia and one for Finland.

Tallinn

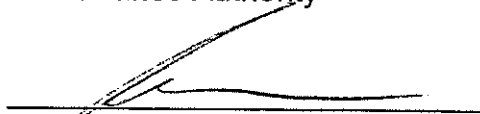
Tallinn

12.12.2011

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For the Finnish Communications
Regulatory Authority

For the Estonian Technical
Surveillance Authority



Kirsi Karlamaa

Priit Soom

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FIELD STRENGTH THRESHOLDS FOR COORDINATION

Field strength	GSM	Other systems, excl UMTS		
		Bandwidth, MHz		
		5	10	20
dB μ V/m	33 ²	65	68	71

	UMTS , 5 MHz			
	Centre frequencies aligned		Centre frequencies not aligned	
Field strength	Preferential codes used	Non-preferential codes used	Preferential codes used	Non-preferential codes used
dB μ V/m	65	41	65	65

² The field strength thresholds based on the ECC Recommendation (05)08 (Annex 3)

PREFERENTIAL CODES FOR UMTS (UTRA FDD)

3GPP TS 25.213 §5.2.3 defines 64 scrambling code groups of which preferential codes are divided between the administrations according to the following table:

Code group	Set A 0 to 10	Set B 11 to 20	Set C 21 to 31	Set D 32 to 42	Set E 43 to 52	Set F 53 to 63
Country	Finland	Finland	Estonia	Estonia	Estonia	Finland

In Estonia

Zone E

The Estonian coast including the following islands: Saaremaa, Hiiumaa, Vormsi, Naissaar and Prangli

In Finland

Zone F

The South Coast of Finland described by a line drawn between the following islands (coordinates WGS 84):

Jurmo (59° 48' 56" N, 21° 33' 48" E), Russarö (59° 45' 54" N, 22° 56' 51" E),
Rönnskär (59° 55' 54" N, 24° 23' 32" E), Isosaari (60° 05' 43" N, 25° 02' 40" E),
Pirttisaari (60° 09' 30" N, 25° 26' 29" E) and Haapasaari (60° 17' 10" N, 27° 11' 42" E)