

COORDINATION PRINCIPLES AND CHANNEL ARRANGEMENT

**concerning the use of the preferential and non-preferential channels
of GSM-R system in the border areas
within the frequency bands 876-880 MHz / 921-925 MHz**

between

the Electronic Communications Office of the Republic of Latvia and
the Communications Regulatory Authority of the Republic of Lithuania

Vilnius
23rd September 2005

1. Introduction

- 1.1. According to the ITU Radio Regulations the representatives of the Electronic Communications Office of the Republic of Latvia and the Communications Regulatory Authority of the Republic of Lithuania (hereinafter referred to as Parties) have agreed the present Coordination principles and channel arrangement concerning the use of the preferential and non-preferential channels of GSM-R system in the border areas within the frequency bands 876-880 MHz / 921-925 MHz (hereinafter referred to as Coordination principles).
- 1.2. The Parties noted that in accordance with the CEPT ECC Decision (02)05 frequency band 876-880 MHz paired with 921-925 MHz will be used for GSM-R networks for railway purposes.

2. General

- 2.1. The coordination of the frequency assignments shall be performed under the provisions of these Coordination principles together with the provisions laid down in "Agreement 2003"ⁱ with the exception of the field strength calculation methodology contained therein.
- 2.2. ITU-R Recommendation P.1546 should be used for the field strength calculation.
- 2.3. The provisions of these Coordination principles take priority over the provisions of "Agreement 2003".
- 2.4. In the presence of harmful interference the claims shall be submitted in accordance with Appendix 10 of the Radio Regulations. The Parties shall take all possible measures in order to eliminate the harmful interference.
- 2.5. The Parties decided to divide the frequency band 876-880 MHz paired with 921-925 MHz into the bilateral preferential frequencies in view of equal numbers of duplex channels for each Party, as described in the Annex 1.
- 2.6. Provisions of these Coordination principles shall be applied in the Belarusian-Lithuanian border areas excluding the circular area of 30 km radius around the point of Belarusian-Latvian-Lithuanian borders junction however these Coordination principles may still be applied for that circular area under the provisions of the relevant three-lateral agreement if any.

3. Frequencies.

- 3.1. The Parties agreed to use in frequency band 876-880 MHz paired with 921-925 MHz a channelling plan, based on the 200 kHz grid, with central frequencies calculated as follows:

$$F_{ML} = 876.000 \text{ MHz} + (N \times 0.200 \text{ MHz}) \text{ for mobile stations and}$$

$$F_{FB} = 921.000 \text{ MHz} + (N \times 0.200 \text{ MHz}) \text{ for base stations,}$$

where channel number $N = 1, 2, \dots, 20$.

ⁱ Agreement between the Administrations of Austria, Belgium, the Czech Republic, Germany, France, Hungary, the Netherlands, Croatia, Italy, Liechtenstein, Lithuania, Luxembourg, Poland, Romania, the Slovak Republic, Slovenia and Switzerland on the coordination of frequencies between 29.7 MHz and 39.5 GHz for the fixed service and the land mobile service. Berlin, 28 November 2003

4. Technical provisions

- 4.1. Each Party may use its bilateral preferential channels without prior coordination with the neighbouring country if the field strength value from the interfering station at a distance of 30 km from the border line inland of the neighbouring country at 10 m antenna height above the ground level does not exceed 26 dB μ V/m for 10% of the time and 50% of the locations.
- 4.2. Each Party may use its bilateral non-preferential channels without prior coordination with the neighbouring country if the field strength value from the interfering station at the border line at 10 m antenna height above the ground level does not exceed 26 dB μ V/m for 10% of the time and 50% of the locations.

5. Revision of the Coordination principles

- 5.1. These Coordination principles may be revised at any time on the initiative of any Party subject to approval by another Party.
- 5.2. The Party may withdraw these Coordination principles notifying another Party on its intention at least one year before.

6. Language of the Coordination principles

- 6.1. These Coordination principles are agreed and executed in the English language in two copies – one copy for the each Party.

7. Entry into force

- 7.1. These Coordination principles shall enter into force on 1st April 2006.
- 7.2. Starting from the date indicated in item 7.1 of these Coordination principles the Arrangement between the Communication Regulatory Authority of the Republic of Lithuania and the Latvia Telecommunications State Inspection concerning the coordination of the Land Mobile Service stations in the border areas within the frequency bands 876-880 / 921-925 MHz (Riga, October 2003) shall cease to be effective.

On behalf of the
Electronic Communications Office
of the Republic of Latvia

On behalf of the
Communications Regulatory Authority
of the Republic of Lithuania

Vilnius, 23rd September 2005

N	F_{ML}, MHz	F_{BS}, MHz	LVA	LTU
1.	876.200	921.200		LTU
2.	876.400	921.400		LTU
3.	876.600	921.600		LTU
4.	876.800	921.800		LTU
5.	877.000	922.000		LTU
6.	877.200	922.200		LTU
7.	877.400	922.400		LTU
8.	877.600	922.600	LVA	
9.	877.800	922.800	LVA	
10.	878.000	923.000	LVA	
11.	878.200	923.200	LVA	
12.	878.400	923.400	LVA	
13.	878.600	923.600	LVA	
14.	878.800	923.800		LTU
15.	879.000	924.000		LTU
16.	879.200	924.200		LTU
17.	879.400	924.400	LVA	
18.	879.600	924.600	LVA	
19.	879.800	924.800	LVA	
20.	880.000	925.000	LVA	
sum:			10	10