

## **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 State Supervisory Department for Telecommunications of the Republic of Belarus and  
the Electronic Communications Office of the Republic of Latvia

Vilnius  
23<sup>rd</sup> September 2005

## 1. Introduction

- 1.1. According to the ITU Radio Regulations the representatives of the State Supervisory Department for Telecommunications of the Republic of Belarus and the Electronic Communications Office of the Republic of Latvia (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"<sup>i</sup> 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-Latvian border areas excluding the circular areas of 30 km radius around the point of Belarusian-Latvian-Lithuanian and around the point of Belarusian-Latvian-Russian borders junction however these Coordination principles may still be applied for these circular areas 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  $N = 1, 2, \dots, 20$ .

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<sup>i</sup> 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 $\mu$ 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 $\mu$ 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 at the first day of the month following the date of the signing.

On behalf of the  
State Supervisory Department for  
Telecommunications of the  
Republic of Belarus

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

Vilnius, 23<sup>rd</sup> September 2005

<b>N</b>	<b>F<sub>ML</sub>, MHz</b>	<b>F<sub>BS</sub>, MHz</b>	<b>BLR</b>	<b>LVA</b>
1.	876.200	921.200		LVA
2.	876.400	921.400		LVA
3.	876.600	921.600		LVA
4.	876.800	921.800		LVA
5.	877.000	922.000	BLR	
6.	877.200	922.200	BLR	
7.	877.400	922.400	BLR	
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	BLR	
15.	879.000	924.000	BLR	
16.	879.200	924.200	BLR	
17.	879.400	924.400	BLR	
18.	879.600	924.600	BLR	
19.	879.800	924.800	BLR	
20.	880.000	925.000	BLR	
sum:			10	10