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	Republika e Kosovës Republic of Kosovo - Republika Kosovo Autoriteti Rregullator i Telekomunikimit Telecommunications Regulatory Authority Regulativni Autoritet Telekomunikacione
Nr./No./Br.	007/A/13
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TECHNICAL AGREEMENT

BETWEEN THE NATIONAL FREQUENCY
MANAGEMENT AUTHORITIES OF

MONTENEGRO

and

REPUBLIC OF KOSOVO

ON BORDER COORDINATION OF GSM/DCS1800 SYSTEMS

IN THE FREQUENCY BANDS

880 – 915/925 – 960 MHz and 1710 – 1785/1805 – 1880 MHz

Podgorica, January 2013

1. Introduction

Based on Memorandum of Understanding (MoU) signed by heads of national regulatory authorities for electronic communications of Montenegro and Republic of Kosovo on 12.03.2010, the Agency for Electronic Communications and Postal Services (EKIP) (The Administration of Montenegro) and the Regulatory Authority of Electronic and Postal Communications (RAEPC) (The Administration of Kosovo) (hereinafter called "Signatory Authorities") conclude this **Technical Agreement on border coordination of GSM/DCS1800 systems** in the frequency bands 880-915/925-960 MHz (the GSM 900 MHz band) and 1710-1785/1805-1880 MHz (the GSM 1800 MHz band).

The aim of this Technical Agreement is to lay down the principles, the technical provisions and administrative procedure necessary to regulate the common deployment of the GSM/DCS1800 networks in the GSM 900 MHz and GSM 1800 MHz bands in border areas between two countries.

2. Principles of coordination

On frequency coordination procedures shall be applied relevant provisions of the ECC/REC(05)08 and this Technical Agreement.

In order to enhance the efficiency of spectrum usage and to assure operations without harmful interference in border areas between two countries the principle of allotment of preferential frequencies in the GSM 900 MHz and GSM 1800 MHz bands for the GSM/DCS1800 networks in both countries shall be applied.

With respect to predicted traffic volume and to assure equitable access to the spectrum in border areas number of 30 (thirty) preferential frequency channels in every band shall be defined for GSM and DCS1800 networks in each country.

Distribution of preferential frequency channels is given in Annex of this Technical Agreement.

All frequency channels which are not defined as a preferential should be treated as a non-preferential channels.

Frequencies on which the field strength exceeds the limits laid down in section 3 of this Technical Agreement shall be coordinated.

3. General technical provisions

Preferential frequencies may be used without coordination if the field strength of each carrier produced by the base station does not exceed a value of 19 dB μ V/m (10% of time, 50% of locations) in the GSM 900 MHz band and 25 dB μ V/m (10% of time, 50% of locations) in the GSM 1800 MHz band for GSM/DCS1800 systems at a height of 3 m above ground at a distance of 15 km inside the neighboring country.

Non-preferential frequencies may be used without coordination if the field strength of each carrier produced by the base station does not exceed a value of 19 dB μ V/m (10% of time, 50% of locations) in the GSM 900 MHz band and 25 dB μ V/m (10% of time, 50% of locations) in the GSM 1800 MHz band for GSM/DCS1800 systems at a height of 3 m above ground at the borderline.

4. Exchange of information

Notifications of base stations are not required in general. Signatory Authorities will exchange the lists of the GSM/DCS1800 base stations installed in the border areas between two countries on the explicit request of any Signatory Authority.

In the case of harmful interference the data necessary to evaluate and treat harmful interference shall be exchanged between Signatory Authorities.

5. Revision of the Technical Agreement

This Technical Agreement can be revised in light of administrative, regulatory or technical developments, especially in order to comply with relevant amendments of CEPT ERC/ECC decisions, recommendations and reports at the proposal of any Signatory Authority with the agreement of the other one.

6. Withdrawal from the Technical Agreement

Any Signatory Authority may withdraw from this Technical Agreement by the end of a calendar month by giving notice of its intention at least six months in advance. A declaration to that effect shall be addressed to the other Signatory Authority.

Frequency assignments made within the framework of this Technical Agreement prior to the date of entry into force of the withdrawal shall remain valid and be protected according to their status.

7. Language of the Technical Agreement

The original text of this Technical Agreement exists in English in two originals.

8. Date of entry into force of the Technical Agreement

The provisions of this Technical Agreement shall be implemented by licensed operators in both countries not later than 90 (ninety) days after its signing or by April 1st, 2013 at the latest.

Signed in Podgorica, 17.01.2013.

For the Administration of Montenegro

For the Administration of Kosovo



Zoran Sekulić
Executive director of EKIP



Ekrem Hoxha
Chairman of RAEPC Board

Annex

DISTRIBUTION OF PREFERENTIAL FREQUENCY CHANNELS

Distribution of preferential frequency channels in the GSM 900 MHz frequency band:

UL frequency [MHz]	DL frequency [MHz]	ARFCN channel	Country
882.000	927.000	984	MNE
882.200	927.200	985	MNE
882.400	927.400	986	MNE
882.600	927.600	987	MNE
882.800	927.800	988	MNE
883.000	928.000	989	MNE
883.200	928.200	990	MNE
883.400	928.400	991	MNE
883.600	928.600	992	MNE
883.800	928.800	993	MNE
896.000	941.000	30	MNE
896.200	941.200	31	MNE
896.400	941.400	32	MNE
896.600	941.600	33	MNE
896.800	941.800	34	MNE
897.000	942.000	35	MNE
897.200	942.200	36	MNE
897.400	942.400	37	MNE
897.600	942.600	38	MNE
897.800	942.800	39	MNE
905.800	950.800	79	MNE
906.000	951.000	80	MNE
906.200	951.200	81	MNE
906.400	951.400	82	MNE
906.600	951.600	83	MNE
906.800	951.800	84	MNE
907.000	952.000	85	MNE
907.200	952.200	86	MNE
907.400	952.400	87	MNE
907.600	952.600	88	MNE

UL frequency [MHz]	DL frequency [MHz]	ARFCN channel	Country
887.000	932.000	1009	RKS
887.200	932.200	1010	RKS
887.400	932.400	1011	RKS
887.600	932.600	1012	RKS
887.800	932.800	1013	RKS
888.000	933.000	1014	RKS
888.200	933.200	1015	RKS
888.400	933.400	1016	RKS
888.600	933.600	1017	RKS
888.800	933.800	1018	RKS
894.000	939.000	20	RKS
894.200	939.200	21	RKS
894.400	939.400	22	RKS
894.600	939.600	23	RKS
894.800	939.800	24	RKS
895.000	940.000	25	RKS
895.200	940.200	26	RKS
895.400	940.400	27	RKS
895.600	940.600	28	RKS
895.800	940.800	29	RKS
912.000	957.000	110	RKS
912.200	957.200	111	RKS
912.400	957.400	112	RKS
912.600	957.600	113	RKS
912.800	957.800	114	RKS
913.000	958.000	115	RKS
913.200	958.200	116	RKS
913.400	958.400	117	RKS
913.600	958.600	118	RKS
913.800	958.800	119	RKS

Distribution of preferential frequency channels in the GSM 1800 MHz frequency band:

UL frequency [MHz]	DL frequency [MHz]	ARFCN channel	Country
1710.200	1805.200	512	MNE
1710.400	1805.400	513	MNE
1710.600	1805.600	514	MNE
1710.800	1805.800	515	MNE
1711.000	1806.000	516	MNE
1721.200	1816.200	567	MNE
1721.400	1816.400	568	MNE
1721.600	1816.600	569	MNE
1721.800	1816.800	570	MNE
1722.000	1817.000	571	MNE
1755.000	1850.000	736	MNE
1755.200	1850.200	737	MNE
1755.400	1850.400	738	MNE
1755.600	1850.600	739	MNE
1755.800	1850.800	740	MNE
1756.000	1851.000	741	MNE
1756.200	1851.200	742	MNE
1756.400	1851.400	743	MNE
1756.600	1851.600	744	MNE
1756.800	1851.800	745	MNE
1762.800	1857.800	775	MNE
1763.000	1858.000	776	MNE
1763.200	1858.200	777	MNE
1763.400	1858.400	778	MNE
1763.600	1858.600	779	MNE
1763.800	1858.800	780	MNE
1764.000	1859.000	781	MNE
1764.200	1859.200	782	MNE
1764.400	1859.400	783	MNE
1764.600	1859.600	784	MNE

UL frequency [MHz]	DL frequency [MHz]	ARFCN channel	Country
1719.200	1814.200	557	RKS
1719.400	1814.400	558	RKS
1719.600	1814.600	559	RKS
1719.800	1814.800	560	RKS
1720.000	1815.000	561	RKS
1720.200	1815.200	562	RKS
1720.400	1815.400	563	RKS
1720.600	1815.600	564	RKS
1720.800	1815.800	565	RKS
1721.000	1816.000	566	RKS
1750.800	1845.800	715	RKS
1751.000	1846.000	716	RKS
1751.200	1846.200	717	RKS
1751.400	1846.400	718	RKS
1751.600	1846.600	719	RKS
1751.800	1846.800	720	RKS
1752.000	1847.000	721	RKS
1752.200	1847.200	722	RKS
1752.400	1847.400	723	RKS
1752.600	1847.600	724	RKS
1760.200	1855.200	762	RKS
1760.400	1855.400	763	RKS
1760.600	1855.600	764	RKS
1760.800	1855.800	765	RKS
1761.000	1856.000	766	RKS
1761.200	1856.200	767	RKS
1761.400	1856.400	768	RKS
1761.600	1856.600	769	RKS
1761.800	1856.800	770	RKS
1762.000	1857.000	771	RKS