

**Agreement between the National Post
and Telecom Agency, Sweden & Finnish
Communications Regulatory Authority, Finland
concerning the use of the frequency bands
1710-1785/1805-1880 MHz, GSM-1800.**

2003

Agreement between the National Post and Telecom Agency, Sweden & Finnish Communications Regulatory Authority, Finland concerning the use of the frequency bands 1710-1785/1805-1880 MHz, GSM-1800.

Section 1 - General

- 1.1 If a country use part of the frequency band for other purposes than GSM-1800, the limits of this agreement shall still apply. A field strength exceeding levels in section 2 shall be co-ordinated with the other country.
- 1.2 Preliminary co-ordination may take place between operators concerned. However the results from that preliminary co-ordination between operators shall be approved by the administrations.
- 1.3 For this agreement definition of protected zones is given by annex 2.
- 1.4 A compliant in case of harmful interference shall be based on the median values of measurements of field strength performed at 3 m of receiving antenna at least on two different occasions over a range of at least 100 m along the zones defined in annex 2.
- 1.5 The above mentioned field strength values are to be calculated for 10% of time and 50% of location, bandwidth of 200 kHz.
- 1.6 Countries shall use the ITU-R P.1546-1 "Method for point to area predictions for terrestrial services in the frequency range 30-3000 MHz" for field strengths calculations relating to this agreement.

Section 2 - Use of channels

- 2.1 Finland may use its preferential channels without co-ordination with Sweden, if the field strength of every single carrier produced by a base station does not exceed 42 dB μ V/m at a distance of 15 km inside the border- or coastline of Sweden, except for protected zones given in annex 2. Channels in annex 1 marked with FIN.
- 2.2 Sweden may use its preferential channels without co-ordination with Finland, if the field strength of every single carrier produced by a base station does not exceed 42 dB μ V/m at a distance of 15 km inside the border- or coastline of Finland, except for protected zones given in annex 2. Channels in annex 1 marked with S.
- 2.3 Finland may use its non-preferential channels without co-ordination with Sweden, if the field strength of every single carrier produced by a base station does not exceed 25 dB μ V/m at a distance of 15 km inside the border- or coastline of Sweden, except for protected zones given in annex 2. Channels in annex 1 marked with S.
- 2.4 Sweden may use its non-preferential channels without co-ordination with Finland, if the field strength of every single carrier produced by a base station does not exceed 25 dB μ V/m at a distance of 15 km inside the border- or coastline of Finland, except for protected zones given in annex 2. Channels in annex 1 marked with FIN.

Section 3 – Revision and cancellation

- 3.1 This agreement may be revised or cancelled as desired by one of the administrations with a notice of one year.
- 3.2 This agreement may be revised if mutual understanding is reached at the negotiations between administrations.
- 3.3 In case this agreement is cancelled and new one is not concluded the co-ordination procedure will be based on CEPT Recommendation T/R 20-08.

This agreement shall come into effect from date of signature.

This agreement has been drawn up in two identical copies, one for Finland and one for Sweden.

Helsinki, 18 December 2003

Stockholm, 19 December 2003

Kari Koho
Director, Radio Administration
Finnish Communications Regulatory Authority

Marianne Treschow
Head of Spectrum Management Department
National Post & Telecom Agency, Sweden

GSM 1800 frequency assignment planning and co-ordination of preferential frequencies between Finland and Sweden.

Channel No	Assignment	Rx. Centre Fq. [MHz]	Tx. Centre Fq. [MHz]
-	---	1710,00	1805,00
512	FIN	1710,20	1805,20
513	FIN	1710,40	1805,40
514	FIN	1710,60	1805,60
515	FIN	1710,80	1805,80
516	FIN	1711,00	1806,00
517	FIN	1711,20	1806,20
518	FIN	1711,40	1806,40
519	FIN	1711,60	1806,60
520	FIN	1711,80	1806,80
521	FIN	1712,00	1807,00
522	FIN	1712,20	1807,20
523	FIN	1712,40	1807,40
524	FIN	1712,60	1807,60
525	FIN	1712,80	1807,80
526	FIN	1713,00	1808,00
527	FIN	1713,20	1808,20
528	S	1713,40	1808,40
529	S	1713,60	1808,60
530	S	1713,80	1808,80
531	S	1714,00	1809,00
532	S	1714,20	1809,20
533	S	1714,40	1809,40
534	S	1714,60	1809,60
535	S	1714,80	1809,80
536	S	1715,00	1810,00
537	S	1715,20	1810,20
538	S	1715,40	1810,40
539	S	1715,60	1810,60
540	S	1715,80	1810,80
541	S	1716,00	1811,00
542	S	1716,20	1811,20
543	S	1716,40	1811,40
544	S	1716,60	1811,60
545	S	1716,80	1811,80
546	S	1717,00	1812,00
547	S	1717,20	1812,20
548	S	1717,40	1812,40
549	S	1717,60	1812,60
550	S	1717,80	1812,80
551	S	1718,00	1813,00

552	S	1718,20	1813,20
553	S	1718,40	1813,40
554	S	1718,60	1813,60
555	S	1718,80	1813,80
556	S	1719,00	1814,00
557	S	1719,20	1814,20
558	S	1719,40	1814,40
559	S	1719,60	1814,60
560	S	1719,80	1814,80
561	S	1720,00	1815,00
562	FIN	1720,20	1815,20
563	FIN	1720,40	1815,40
564	FIN	1720,60	1815,60
565	FIN	1720,80	1815,80
566	FIN	1721,00	1816,00
567	FIN	1721,20	1816,20
568	FIN	1721,40	1816,40
569	FIN	1721,60	1816,60
570	FIN	1721,80	1816,80
571	FIN	1722,00	1817,00
572	FIN	1722,20	1817,20
573	FIN	1722,40	1817,40
574	FIN	1722,60	1817,60
575	FIN	1722,80	1817,80
576	FIN	1723,00	1818,00
577	FIN	1723,20	1818,20
578	FIN	1723,40	1818,40
579	FIN	1723,60	1818,60
580	FIN	1723,80	1818,80
581	FIN	1724,00	1819,00
582	FIN	1724,20	1819,20
583	FIN	1724,40	1819,40
584	FIN	1724,60	1819,60
585	FIN	1724,80	1819,80
586	FIN	1725,00	1820,00
587	FIN	1725,20	1820,20
588	FIN	1725,40	1820,40
589	FIN	1725,60	1820,60
590	FIN	1725,80	1820,80
591	FIN	1726,00	1821,00
592	FIN	1726,20	1821,20
593	FIN	1726,40	1821,40
594	FIN	1726,60	1821,60
595	FIN	1726,80	1821,80
596	FIN	1727,00	1822,00
597	FIN	1727,20	1822,20
598	FIN	1727,40	1822,40
599	FIN	1727,60	1822,60
600	FIN	1727,80	1822,80

601		S	1728,00	1823,00
602		S	1728,20	1823,20
603		S	1728,40	1823,40
604		S	1728,60	1823,60
605		S	1728,80	1823,80
606		S	1729,00	1824,00
607		S	1729,20	1824,20
608		S	1729,40	1824,40
609		S	1729,60	1824,60
610		S	1729,80	1824,80
611		S	1730,00	1825,00
612		S	1730,20	1825,20
613		S	1730,40	1825,40
614		S	1730,60	1825,60
615		S	1730,80	1825,80
616		S	1731,00	1826,00
617		S	1731,20	1826,20
618		S	1731,40	1826,40
619		S	1731,60	1826,60
620		S	1731,80	1826,80
621		S	1732,00	1827,00
622	FIN		1732,20	1827,20
623	FIN		1732,40	1827,40
624	FIN		1732,60	1827,60
625	FIN		1732,80	1827,80
626	FIN		1733,00	1828,00
627	FIN		1733,20	1828,20
628	FIN		1733,40	1828,40
629	FIN		1733,60	1828,60
630	FIN		1733,80	1828,80
631	FIN		1734,00	1829,00
632	FIN		1734,20	1829,20
633	FIN		1734,40	1829,40
634	FIN		1734,60	1829,60
635	FIN		1734,80	1829,80
636	FIN		1735,00	1830,00
637	FIN		1735,20	1830,20
638	FIN		1735,40	1830,40
639	FIN		1735,60	1830,60
640	FIN		1735,80	1830,80
641	FIN		1736,00	1831,00
642		S	1736,20	1831,20
643		S	1736,40	1831,40
644		S	1736,60	1831,60
645		S	1736,80	1831,80
646		S	1737,00	1832,00
647		S	1737,20	1832,20
648		S	1737,40	1832,40
649		S	1737,60	1832,60

650	S	1737,80	1832,80
651	S	1738,00	1833,00
652	S	1738,20	1833,20
653	S	1738,40	1833,40
654	S	1738,60	1833,60
655	S	1738,80	1833,80
656	S	1739,00	1834,00
657	S	1739,20	1834,20
658	S	1739,40	1834,40
659	S	1739,60	1834,60
660	S	1739,80	1834,80
661	S	1740,00	1835,00
662	FIN	1740,20	1835,20
663	FIN	1740,40	1835,40
664	FIN	1740,60	1835,60
665	FIN	1740,80	1835,80
666	FIN	1741,00	1836,00
667	FIN	1741,20	1836,20
668	FIN	1741,40	1836,40
669	FIN	1741,60	1836,60
670	FIN	1741,80	1836,80
671	FIN	1742,00	1837,00
672	FIN	1742,20	1837,20
673	FIN	1742,40	1837,40
674	FIN	1742,60	1837,60
675	FIN	1742,80	1837,80
676	FIN	1743,00	1838,00
677	FIN	1743,20	1838,20
678	FIN	1743,40	1838,40
679	FIN	1743,60	1838,60
680	FIN	1743,80	1838,80
681	FIN	1744,00	1839,00
682	S	1744,20	1839,20
683	S	1744,40	1839,40
684	S	1744,60	1839,60
685	S	1744,80	1839,80
686	S	1745,00	1840,00
687	S	1745,20	1840,20
688	S	1745,40	1840,40
689	S	1745,60	1840,60
690	S	1745,80	1840,80
691	S	1746,00	1841,00
692	S	1746,20	1841,20
693	S	1746,40	1841,40
694	S	1746,60	1841,60
695	S	1746,80	1841,80
696	S	1747,00	1842,00
697	S	1747,20	1842,20
698	S	1747,40	1842,40

699		S	1747,60	1842,60
700		S	1747,80	1842,80
701		S	1748,00	1843,00
702	FIN		1748,20	1843,20
703	FIN		1748,40	1843,40
704	FIN		1748,60	1843,60
705	FIN		1748,80	1843,80
706	FIN		1749,00	1844,00
707	FIN		1749,20	1844,20
708	FIN		1749,40	1844,40
709	FIN		1749,60	1844,60
710	FIN		1749,80	1844,80
711	FIN		1750,00	1845,00
712	FIN		1750,20	1845,20
713	FIN		1750,40	1845,40
714	FIN		1750,60	1845,60
715	FIN		1750,80	1845,80
716	FIN		1751,00	1846,00
717	FIN		1751,20	1846,20
718	FIN		1751,40	1846,40
719	FIN		1751,60	1846,60
720	FIN		1751,80	1846,80
721	FIN		1752,00	1847,00
722		S	1752,20	1847,20
723		S	1752,40	1847,40
724		S	1752,60	1847,60
725		S	1752,80	1847,80
726		S	1753,00	1848,00
727		S	1753,20	1848,20
728		S	1753,40	1848,40
729		S	1753,60	1848,60
730		S	1753,80	1848,80
731		S	1754,00	1849,00
732		S	1754,20	1849,20
733		S	1754,40	1849,40
734		S	1754,60	1849,60
735		S	1754,80	1849,80
736		S	1755,00	1850,00
737		S	1755,20	1850,20
738		S	1755,40	1850,40
739		S	1755,60	1850,60
740		S	1755,80	1850,80
741		S	1756,00	1851,00
742	FIN		1756,20	1851,20
743	FIN		1756,40	1851,40
744	FIN		1756,60	1851,60
745	FIN		1756,80	1851,80
746	FIN		1757,00	1852,00
747	FIN		1757,20	1852,20

748	FIN	1757,40	1852,40
749	FIN	1757,60	1852,60
750	FIN	1757,80	1852,80
751	FIN	1758,00	1853,00
752	FIN	1758,20	1853,20
753	FIN	1758,40	1853,40
754	FIN	1758,60	1853,60
755	FIN	1758,80	1853,80
756	FIN	1759,00	1854,00
757	FIN	1759,20	1854,20
758	FIN	1759,40	1854,40
759	FIN	1759,60	1854,60
760	FIN	1759,80	1854,80
761	FIN	1760,00	1855,00
762		S 1760,20	1855,20
763		S 1760,40	1855,40
764		S 1760,60	1855,60
765		S 1760,80	1855,80
766		S 1761,00	1856,00
767		S 1761,20	1856,20
768		S 1761,40	1856,40
769		S 1761,60	1856,60
770		S 1761,80	1856,80
771		S 1762,00	1857,00
772		S 1762,20	1857,20
773		S 1762,40	1857,40
774		S 1762,60	1857,60
775		S 1762,80	1857,80
776		S 1763,00	1858,00
777		S 1763,20	1858,20
778		S 1763,40	1858,40
779		S 1763,60	1858,60
780		S 1763,80	1858,80
781		S 1764,00	1859,00
782	FIN	1764,20	1859,20
783	FIN	1764,40	1859,40
784	FIN	1764,60	1859,60
785	FIN	1764,80	1859,80
786	FIN	1765,00	1860,00
787	FIN	1765,20	1860,20
788	FIN	1765,40	1860,40
789	FIN	1765,60	1860,60
790	FIN	1765,80	1860,80
791	FIN	1766,00	1861,00
792	FIN	1766,20	1861,20
793	FIN	1766,40	1861,40
794	FIN	1766,60	1861,60
795	FIN	1766,80	1861,80
796	FIN	1767,00	1862,00

797	FIN	1767,20	1862,20
798	FIN	1767,40	1862,40
799	FIN	1767,60	1862,60
800	FIN	1767,80	1862,80
801	FIN	1768,00	1863,00
802	S	1768,20	1863,20
803	S	1768,40	1863,40
804	S	1768,60	1863,60
805	S	1768,80	1863,80
806	S	1769,00	1864,00
807	S	1769,20	1864,20
808	S	1769,40	1864,40
809	S	1769,60	1864,60
810	S	1769,80	1864,80
811	S	1770,00	1865,00
812	S	1770,20	1865,20
813	S	1770,40	1865,40
814	S	1770,60	1865,60
815	S	1770,80	1865,80
816	S	1771,00	1866,00
817	S	1771,20	1866,20
818	S	1771,40	1866,40
819	S	1771,60	1866,60
820	S	1771,80	1866,80
821	S	1772,00	1867,00
822	FIN	1772,20	1867,20
823	FIN	1772,40	1867,40
824	FIN	1772,60	1867,60
825	FIN	1772,80	1867,80
826	FIN	1773,00	1868,00
827	FIN	1773,20	1868,20
828	FIN	1773,40	1868,40
829	FIN	1773,60	1868,60
830	FIN	1773,80	1868,80
831	FIN	1774,00	1869,00
832	FIN	1774,20	1869,20
833	FIN	1774,40	1869,40
834	FIN	1774,60	1869,60
835	FIN	1774,80	1869,80
836	FIN	1775,00	1870,00
837	FIN	1775,20	1870,20
838	FIN	1775,40	1870,40
839	FIN	1775,60	1870,60
840	FIN	1775,80	1870,80
841	FIN	1776,00	1871,00
842	S	1776,20	1871,20
843	S	1776,40	1871,40
844	S	1776,60	1871,60
845	S	1776,80	1871,80

846		S	1777,00	1872,00
847		S	1777,20	1872,20
848		S	1777,40	1872,40
849		S	1777,60	1872,60
850		S	1777,80	1872,80
851		S	1778,00	1873,00
852		S	1778,20	1873,20
853		S	1778,40	1873,40
854		S	1778,60	1873,60
855		S	1778,80	1873,80
856		S	1779,00	1874,00
857		S	1779,20	1874,20
858		S	1779,40	1874,40
859		S	1779,60	1874,60
860		S	1779,80	1874,80
861		S	1780,00	1875,00
862		S	1780,20	1875,20
863		S	1780,40	1875,40
864		S	1780,60	1875,60
865		S	1780,80	1875,80
866		S	1781,00	1876,00
867		S	1781,20	1876,20
868		S	1781,40	1876,40
869		S	1781,60	1876,60
870		S	1781,80	1876,80
871		S	1782,00	1877,00
872		S	1782,20	1877,20
873		S	1782,40	1877,40
874	FIN		1782,60	1877,60
875	FIN		1782,80	1877,80
876	FIN		1783,00	1878,00
877	FIN		1783,20	1878,20
878	FIN		1783,40	1878,40
879	FIN		1783,60	1878,60
880	FIN		1783,80	1878,80
881	FIN		1784,00	1879,00
882	FIN		1784,20	1879,20
883	FIN		1784,40	1879,40
884	FIN		1784,60	1879,60
885	FIN		1784,80	1879,80
	DECT		1785,00	1880,00

Definition of border zones

In Finland

Zone F

- at Åland

a line between Norrskär, Ådskär, Västerön, Askö and Kalskär

- at Vasa

a line between Mickelsöarna, Lappöarna, Bergö and Björkby

- at Uleåborg

Hailuoto

- the land border between Finland and Sweden

In Sweden

Zone S

- at the coast of Uppland and Stockholm archipelago

a line between the lighthouse Argos, Simpenäs klubb, Söderarm, Svenska högarna and Huvudskär

- the land border between Sweden and Finland