

AGREEMENT

between the administrations of
Germany and Poland

on the frequency coordination in
the frequency bands
1710-1785/1805-1880 MHz
(GSM 1800)

17th October 2002, Wroclaw

1. Introduction

In the framework of the "Vienna Agreement (Berlin 2001)" the Administrations of Germany and Poland concluded this Agreement for the purpose of the frequency coordination for GSM systems in the frequency bands 1710-1785/1805-1880 MHz. The relevant provisions of the "Vienna Agreement (Berlin 2001)" and CEPT Rec. T/R 22-07 shall be applied unless otherwise laid down in this agreement.

2. Principles - Background

- 2.1 The Administrations mentioned above deemed it necessary to conclude an agreement on the allotment of the preferential frequencies for GSM systems in the frequency bands 1710-1785/1805-1880 MHz. The channel arrangement used in this agreement is in conformity with I-ETS 300 609-1 and shown in Annex 1.
- 2.2 Operators shall have the possibility to cooperate in order to minimise interference and to achieve the most efficient use of the available spectrum. Therefore the provisions laid down in the "Agreement between the administrations of the Czech Republic, Germany, Poland and the Slovak Republic concerning the approval of arrangements between operators of mobile radiocommunication networks (Mainz, 29 May 2002)" shall be applied.

3. Technical provisions

- 3.1 The preferential frequency partitioning is described in Annex 2.
- 3.2 Preferential frequencies may be used without coordination with a neighbouring country if the field strength of each carrier produced by the base station does not exceed a value of 25 dB μ V/m at a height of 3 m above ground at a distance of 15 km inside the neighbouring country.
- 3.3 Non preferential frequencies may be used without coordination with a neighbouring country if the field strength of each carrier produced by the base station does not exceed a value of 25 dB μ V/m at a height of 3 m above ground at the border line.

4. Exchange of information

Notifications of base stations will be exchanged on explicit request of an administration only.

5. Procedure in case of harmful interference

In case of harmful interference the Administrations affected shall inform each other and endeavour to achieve mutually satisfactory solution.

6. Revision of this agreement

This Agreement can be revised in light of administrative, regulatory or technical developments at the proposal of any Signatory Administration with the agreement of the other Signatory Administration.

7. Withdrawal from this Agreement

Any Administration may withdraw from this 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 handling administration of the „Vienna Agreement (Berlin 2001)". Frequency assignments made within the framework of this Agreement prior to the date of entry into force of the withdrawal shall remain valid and be protected according to their status.

8. Language of the Agreement

The original text of this Agreement exists in English and is retained at the handling administration of the "Vienna Agreement (Berlin 2001)".

9. Date of entry into force of the Agreement

This Agreement enters into force at the date of its signature.

At the same date the part of the existing Agreement between the telecommunications administrations of Austria, the Czech Republic, Poland, the Slovak Republic and Germany on the frequency coordination of systems using DCS 1800 standards in the frequency bands 1710 – 1785 MHz and 1805 – 1880 MHz concerning bilateral relation between Germany and Poland becomes invalid.

For Germany



(Thomas Heutmann)

For Poland



(Wiktor Sęga)

Channel arrangement in the GSM 1800 bands

Ch. No	Frequency [MHz]		Ch. No	Frequency [MHz]		Ch. No	Frequency [MHz]	
512	1710,200	1805,200	566	1721,000	1816,000	620	1731,800	1826,800
513	1710,400	1805,400	567	1721,200	1816,200	621	1732,000	1827,000
514	1710,600	1805,600	568	1721,400	1816,400	622	1732,200	1827,200
515	1710,800	1805,800	569	1721,600	1816,600	623	1732,400	1827,400
516	1711,000	1806,000	570	1721,800	1816,800	624	1732,600	1827,600
517	1711,200	1806,200	571	1722,000	1817,000	625	1732,800	1827,800
518	1711,400	1806,400	572	1722,200	1817,200	626	1733,000	1828,000
519	1711,600	1806,600	573	1722,400	1817,400	627	1733,200	1828,200
520	1711,800	1806,800	574	1722,600	1817,600	628	1733,400	1828,400
521	1712,000	1807,000	575	1722,800	1817,800	629	1733,600	1828,600
522	1712,200	1807,200	576	1723,000	1818,000	630	1733,800	1828,800
523	1712,400	1807,400	577	1723,200	1818,200	631	1734,000	1829,000
524	1712,600	1807,600	578	1723,400	1818,400	632	1734,200	1829,200
525	1712,800	1807,800	579	1723,600	1818,600	633	1734,400	1829,400
526	1713,000	1808,000	580	1723,800	1818,800	634	1734,600	1829,600
527	1713,200	1808,200	581	1724,000	1819,000	635	1734,800	1829,800
528	1713,400	1808,400	582	1724,200	1819,200	636	1735,000	1830,000
529	1713,600	1808,600	583	1724,400	1819,400	637	1735,200	1830,200
530	1713,800	1808,800	584	1724,600	1819,600	638	1735,400	1830,400
531	1714,000	1809,000	585	1724,800	1819,800	639	1735,600	1830,600
532	1714,200	1809,200	586	1725,000	1820,000	640	1735,800	1830,800
533	1714,400	1809,400	587	1725,200	1820,200	641	1736,000	1831,000
534	1714,600	1809,600	588	1725,400	1820,400	642	1736,200	1831,200
535	1714,800	1809,800	589	1725,600	1820,600	643	1736,400	1831,400
536	1715,000	1810,000	590	1725,800	1820,800	644	1736,600	1831,600
537	1715,200	1810,200	591	1726,000	1821,000	645	1736,800	1831,800
538	1715,400	1810,400	592	1726,200	1821,200	646	1737,000	1832,000
539	1715,600	1810,600	593	1726,400	1821,400	647	1737,200	1832,200
540	1715,800	1810,800	594	1726,600	1821,600	648	1737,400	1832,400
541	1716,000	1811,000	595	1726,800	1821,800	649	1737,600	1832,600
542	1716,200	1811,200	596	1727,000	1822,000	650	1737,800	1832,800
543	1716,400	1811,400	597	1727,200	1822,200	651	1738,000	1833,000
544	1716,600	1811,600	598	1727,400	1822,400	652	1738,200	1833,200
545	1716,800	1811,800	599	1727,600	1822,600	653	1738,400	1833,400
546	1717,000	1812,000	600	1727,800	1822,800	654	1738,600	1833,600
547	1717,200	1812,200	601	1728,000	1823,000	655	1738,800	1833,800
548	1717,400	1812,400	602	1728,200	1823,200	656	1739,000	1834,000
549	1717,600	1812,600	603	1728,400	1823,400	657	1739,200	1834,200
550	1717,800	1812,800	604	1728,600	1823,600	658	1739,400	1834,400
551	1718,000	1813,000	605	1728,800	1823,800	659	1739,600	1834,600
552	1718,200	1813,200	606	1729,000	1824,000	660	1739,800	1834,800
553	1718,400	1813,400	607	1729,200	1824,200	661	1740,000	1835,000
554	1718,600	1813,600	608	1729,400	1824,400	662	1740,200	1835,200
555	1718,800	1813,800	609	1729,600	1824,600	663	1740,400	1835,400
556	1719,000	1814,000	610	1729,800	1824,800	664	1740,600	1835,600
557	1719,200	1814,200	611	1730,000	1825,000	665	1740,800	1835,800
558	1719,400	1814,400	612	1730,200	1825,200	666	1741,000	1836,000
559	1719,600	1814,600	613	1730,400	1825,400	667	1741,200	1836,200
560	1719,800	1814,800	614	1730,600	1825,600	668	1741,400	1836,400
561	1720,000	1815,000	615	1730,800	1825,800	669	1741,600	1836,600
562	1720,200	1815,200	616	1731,000	1826,000	670	1741,800	1836,800
563	1720,400	1815,400	617	1731,200	1826,200	671	1742,000	1837,000
564	1720,600	1815,600	618	1731,400	1826,400	672	1742,200	1837,200
565	1720,800	1815,800	619	1731,600	1826,600	673	1742,400	1837,400

Channel arrangement in the GSM 1800 bands

Ch. No	Frequency [MHz]		Ch. No	Frequency [MHz]		Ch. No	Frequency [MHz]	
674	1742,600	1837,600	728	1753,400	1848,400	782	1764,200	1959,200
675	1742,800	1837,800	729	1753,600	1848,600	783	1764,400	1959,400
676	1743,000	1838,000	730	1753,800	1848,800	784	1764,600	1959,600
677	1743,200	1838,200	731	1754,000	1849,000	785	1764,800	1959,800
678	1743,400	1838,400	732	1754,200	1849,200	786	1765,000	1960,000
679	1743,600	1838,600	733	1754,400	1849,400	787	1765,200	1960,200
680	1743,800	1838,800	734	1754,600	1849,600	788	1765,400	1960,400
681	1744,000	1839,000	735	1754,800	1849,800	789	1765,600	1960,600
682	1744,200	1839,200	736	1755,000	1850,000	790	1765,800	1960,800
683	1744,400	1839,400	737	1755,200	1850,200	791	1766,000	1961,000
684	1744,600	1839,600	738	1755,400	1850,400	792	1766,200	1961,200
685	1744,800	1839,800	739	1755,600	1850,600	793	1766,400	1961,400
686	1745,000	1840,000	740	1755,800	1850,800	794	1766,600	1961,600
687	1745,200	1840,200	741	1756,000	1851,000	795	1766,800	1961,800
688	1745,400	1840,400	742	1756,200	1851,200	796	1767,000	1962,000
689	1745,600	1840,600	743	1756,400	1851,400	797	1767,200	1962,200
690	1745,800	1840,800	744	1756,600	1851,600	798	1767,400	1962,400
691	1746,000	1841,000	745	1756,800	1851,800	799	1767,600	1962,600
692	1746,200	1841,200	746	1757,000	1852,000	800	1767,800	1962,800
693	1746,400	1841,400	747	1757,200	1852,200	801	1768,000	1963,000
694	1746,600	1841,600	748	1757,400	1852,400	802	1768,200	1963,200
695	1746,800	1841,800	749	1757,600	1852,600	803	1768,400	1963,400
696	1747,000	1842,000	750	1757,800	1852,800	804	1768,600	1963,600
697	1747,200	1842,200	751	1758,000	1853,000	805	1768,800	1963,800
698	1747,400	1842,400	752	1758,200	1853,200	806	1769,000	1964,000
699	1747,600	1842,600	753	1758,400	1853,400	807	1769,200	1964,200
700	1747,800	1842,800	754	1758,600	1853,600	808	1769,400	1964,400
701	1748,000	1843,000	755	1758,800	1853,800	809	1769,600	1964,600
702	1748,200	1843,200	756	1759,000	1854,000	810	1769,800	1964,800
703	1748,400	1843,400	757	1759,200	1854,200	811	1770,000	1965,000
704	1748,600	1843,600	758	1759,400	1854,400	812	1770,200	1965,200
705	1748,800	1843,800	759	1759,600	1854,600	813	1770,400	1965,400
706	1749,000	1844,000	760	1759,800	1854,800	814	1770,600	1965,600
707	1749,200	1844,200	761	1760,000	1855,000	815	1770,800	1965,800
708	1749,400	1844,400	762	1760,200	1855,200	816	1771,000	1966,000
709	1749,600	1844,600	763	1760,400	1855,400	817	1771,200	1966,200
710	1749,800	1844,800	764	1760,600	1855,600	818	1771,400	1966,400
711	1750,000	1845,000	765	1760,800	1855,800	819	1771,600	1966,600
712	1750,200	1845,200	766	1761,000	1856,000	820	1771,800	1966,800
713	1750,400	1845,400	767	1761,200	1856,200	821	1772,000	1967,000
714	1750,600	1845,600	768	1761,400	1856,400	822	1772,200	1967,200
715	1750,800	1845,800	769	1761,600	1856,600	823	1772,400	1967,400
716	1751,000	1846,000	770	1761,800	1856,800	824	1772,600	1967,600
717	1751,200	1846,200	771	1762,000	1857,000	825	1772,800	1967,800
718	1751,400	1846,400	772	1762,200	1857,200	826	1773,000	1968,000
719	1751,600	1846,600	773	1762,400	1857,400	827	1773,200	1968,200
720	1751,800	1846,800	774	1762,600	1857,600	828	1773,400	1968,400
721	1752,000	1847,000	775	1762,800	1857,800	829	1773,600	1968,600
722	1752,200	1847,200	776	1763,000	1858,000	830	1773,800	1968,800
723	1752,400	1847,400	777	1763,200	1858,200	831	1774,000	1969,000
724	1752,600	1847,600	778	1763,400	1858,400	832	1774,200	1969,200
725	1752,800	1847,800	779	1763,600	1858,600	833	1774,400	1969,400
726	1753,000	1848,000	780	1763,800	1858,800	834	1774,600	1969,600
727	1753,200	1848,200	781	1764,000	1859,000	835	1774,800	1969,800

Channel arrangement in the GSM 1800 bands

Ch. No	Frequency [MHz]		Ch. No	Frequency [MHz]		Ch. No	Frequency [MHz]	
836	1775,000	1970,000	853	1778,400	1973,400	870	1781,800	1976,800
837	1775,200	1970,200	854	1778,600	1973,600	871	1782,000	1977,000
838	1775,400	1970,400	855	1778,800	1973,800	872	1782,200	1977,200
839	1775,600	1970,600	856	1779,000	1974,000	873	1782,400	1977,400
840	1775,800	1970,800	857	1779,200	1974,200	874	1782,600	1977,600
841	1776,000	1971,000	858	1779,400	1974,400	875	1782,800	1977,800
842	1776,200	1971,200	859	1779,600	1974,600	876	1783,000	1978,000
843	1776,400	1971,400	860	1779,800	1974,800	877	1783,200	1978,200
844	1776,600	1971,600	861	1780,000	1975,000	878	1783,400	1978,400
845	1776,800	1971,800	862	1780,200	1975,200	879	1783,600	1978,600
846	1777,000	1972,000	863	1780,400	1975,400	880	1783,800	1978,800
847	1777,200	1972,200	864	1780,600	1975,600	881	1784,000	1979,000
848	1777,400	1972,400	865	1780,800	1975,800	882	1784,200	1979,200
849	1777,600	1972,600	866	1781,000	1976,000	883	1784,400	1979,400
850	1777,800	1972,800	867	1781,200	1976,200	884	1784,600	1979,600
851	1778,000	1973,000	868	1781,400	1976,400	885	1784,800	1979,800
852	1778,200	1973,200	869	1781,600	1976,600			

$$F_l(n) = 1710.2 + 0.2 \cdot (n - 512)$$

$$\text{for } 512 \leq n \leq 885$$

$$F_u(n) = F_l(n) + 95$$

Preferential frequency partitioning in the GSM 1800 bands

Channel number	No of channels	D/POL
512 - 518	7	POL
519 - 524	6	POL
525 - 530	6	POL
531 - 536	6	POL
537 - 543	7	POL
544 - 548	5	POL
549	1	D
550 - 555	6	D
556 - 561	6	D
562	1	D
563 - 568	6	POL
569 - 574	6	POL
575 - 580	6	POL
581 - 586	6	POL
587 - 593	7	POL
594 - 599	6	D
600	1	D
601 - 605	5	POL
606 - 610	5	D
611	1	POL
612 - 618	7	D
619 - 624	6	D
625 - 630	6	D
631 - 636	6	D
637 - 643	7	D
644 - 649	6	D
650 - 655	6	POL
656 - 661	6	POL
662 - 668	7	POL
669 - 674	6	POL
675 - 680	6	POL
681 - 686	6	POL
687 - 693	7	D
694 - 699	6	D
700 - 705	6	D
706 - 711	6	D

Channel number	No of channels	D/POL
712 - 718	7	D
719 - 724	6	D
725 - 730	6	D
731 - 735	5	D
736	1	POL
737 - 743	7	POL
744 - 747	4	POL
748	1	D
749	1	POL
750 - 755	6	POL
756 - 761	6	POL
762 - 768	7	D
769 - 774	6	D
775 - 780	6	D
781 - 786	6	D
787 - 793	7	D
794 - 799	6	D
800 - 805	6	POL
806 - 811	6	POL
812 - 818	7	POL
819 - 824	6	POL
825 - 830	6	POL
831 - 836	6	POL
837 - 843	7	D
844 - 849	6	D
850 - 855	6	D
856 - 861	6	D
862 - 867	6	D
868 - 873	6	D
874 - 879	6	POL
880 - 885	6	POL