

1996-02-09  
AVTAL NO.WPD  
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vedlegg 1.  
ad 01/04587-1

**Agreement between  
the Norwegian Telecommunications Authority, Norway and  
the National Post and Telecom Agency, Sweden  
concerning the use of the frequency bands 890-915/935-960 MHz**

**1996**

**Section 1 - Use of channels from 1 March 1996 until 31 December 1996**

- 1.1 Norway may use the GSM channels 58 - 75 and 90 - 107 without coordination with Sweden, if the field strength of every single carrier produced by a base station does not exceed 36 dBuV/m at the Swedish coastline or border south latitude 61 N or at Kosteröarna.
- 1.2 Norway may use the GSM channels 58 - 75 and 90 - 107 without coordination with Sweden, if the field strength of every single carrier produced by a base station does not exceed 55 dBuV/m at the Swedish border north latitude 61 N.
- 1.3 Sweden may use the GSM channels 46 - 56, 77 - 88 and 109 - 119 without coordination with Norway, if the field strength of every single carrier produced by a base station does not exceed 36 dBuV/m at the Norwegian coastline or border south latitude 61 N or at Hvaleröarna.
- 1.4 Sweden may use the GSM channels 46 - 56, 77 - 88 and 109 - 119 without coordination with Norway, if the field strength of every single carrier produced by a base station does not exceed 55 dBuV/m at the Norwegian border north latitude 61 N.
- 1.5 Norway may use the GSM channels 46 - 57, 77 - 88 and 108 - 119 without coordination with Sweden, if the field strength of every single carrier produced by a base station does not exceed 19 dBuV/m at the Swedish coastline or border or at Kosteröarna.
- 1.6 Sweden may use the GSM channels 34 - 45, 58 - 76 and 89 - 107 without coordination with Norway, if the field strength of every single carrier produced by a base station does not exceed 19 dBuV/m at the Norwegian coastline or border or at Hvaleröarna.
- 1.7 Sweden may, after coordination with the Norwegian GSM operator concerned, without any obligation to inform the Norwegian Telecommunications Authority, use the GSM channels 57 and 108 with a field strength exceeding 19 dBuV/m, but not 36 dBuV/m, at the Norwegian coastline or border or at Hvaleröarna.
- 1.8 Norway may, after coordination with the Swedish GSM operator concerned, without any obligation to inform the National Post and Telecom Agency, use the GSM channels 76 and 89 with a field strength exceeding 19 dBuV/m, but not 36 dBuV/m, at the Swedish coastline or border or at Kosteröarna.
- 1.9 Norway may use the GSM channels 62 and 91 without coordination with Sweden, if the field strength of every single carrier produced by a base station does not exceed 50 dBuV/m at the Swedish coastline or border or at Kosteröarna.
- 1.10 Sweden may use the GSM channel 85 without coordination with Norway, if the field strength of every single carrier produced by a base station does not exceed 50 dBuV/m at the Norwegian coastline or border or at Hvaleröarna.
- 1.11 The frequency band 890 - 896,7 / 935 - 941,7 MHz (GSM channels 1 - 33) may be used for the NMT-system after coordination between the operators.

- 1.11 Norway may use the frequency band 896,7 - 899,1 / 941,7 - 944,1 MHz (GSM channels 34 - 45) for the NMT-system without coordination with Sweden, if the field strength of every single carrier produced by a base station does not exceed 36 dBuV/m at the Swedish coast line or border or at Kosteröarna.

## Section 2 - Use of channels from 1 January 1997

- 2.1 Norway may use the GSM channels 58 -75 and 90 - 107 without coordination with Sweden, if the field strength of every single carrier produced by a base station does not exceed 36 dBuV/m at the Swedish coastline or border south latitude 61 N or at Kosteröarna.
- 2.2 Norway may use the GSM channels 58 -75 and 90 - 107 without coordination with Sweden, if the field strength of every single carrier produced by a base station does not exceed 55 dBuV/m at the Swedish border north latitude 61 N.
- 2.3 Sweden may use the GSM channels 46 - 56, 77 - 88 and 109 - 119 without coordination with Norway, if the field strength of every single carrier produced by a base station does not exceed 36 dBuV/m at the Norwegian coastline or border south latitude 61 N or at Hvaleröarna.
- 2.4 Sweden may use the GSM channels 46 - 56, 77 - 88 and 109 - 119 without coordination with Norway, if the field strength of every single carrier produced by a base station does not exceed 55 dBuV/m at the Norwegian border north latitude 61 N.
- 2.5 Norway may use the GSM channels 39 - 45, 46 - 57, 77 - 88 and 108 - 119 without coordination with Sweden, if the field strength of every single carrier produced by a base station does not exceed 19 dBuV/m at the Swedish coastline or border or at Kosteröarna.
- 2.6 Sweden may use the GSM channels 34 - 45, 58 - 76 and 89 -107 without coordination with Norway, if the field strength of every single carrier produced by a base station does not exceed 19 dBuV/m at the Norwegian coastline or border or at Hvaleröarna.
- 2.7 Sweden may, after coordination with the Norwegian GSM operator concerned, without any obligation to inform the Norwegian Telecommunications Authority, use the GSM channels 57 and 108 with a field strength exceeding 19 dBuV/m, but not 36 dBuV/m, at the Norwegian coastline or border or at Hvaleröarna.
- 2.8 Norway may, after coordination with the Swedish GSM operator concerned, without any obligation to inform the National Post and Telecom Agency, use the GSM channels 76 and 89 with a field strength exceeding 19 dBuV/m, but not 36 dBuV/m, at the Swedish coastline or border or at Kosteröarna.
- 2.9 Norway may use the GSM channels 62 and 91 without coordination with Sweden, if the field strength of every single carrier produced by a base station does not exceed 50 dBuV/m at the Swedish coastline or border or at Kosteröarna.
- 2.10 Sweden may use the GSM channel 79 without coordination with Norway, if the field strength of every single carrier produced by a base station does not exceed 50 dBuV/m at the Norwegian coastline or border or at Hvaleröarna.
- 2.11 The frequency band 890 - 896,7 / 935 - 941,7 MHz (GSM channels 1 - 33) may be used for the NMT-system after coordination between the operators.

- 2.12 Norway may use the frequency band 896,7 - 897,7 / 941,7 - 942,7 MHz (GSM channels 34 - 38) for the NMT-system without coordination with Sweden, if the field strength of every single carrier produced by a base station does not exceed 36 dBuV/m at the Swedish coast linear border or at Kosteröarna.

### Section 3 - General

- 3.1 A field strength exceeding above mentioned levels shall be coordinated with the other country.
- 3.2 Preliminary coordination may take place between the GSM operators concerned. The results from preliminary coordination between operators must be approved by the administrations.
- 3.3 The above mentioned field strenght values are to be calculated at a receiving antenna height of 1.5 m and for 50 % of time and 50 % of locations.
- 3.4. A complaint in case of interference shall be based on the median values of measurements of field strength performed at least on two different occasions over a range of at least 100 m of the tangent of the wave propagation of an interfering base station. Measurements of field strength shall refer to the coastline.

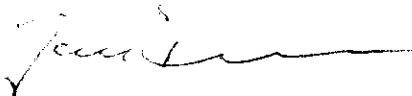
### Section 4 - Revision

- 4.1 This agreement may be revised or cancelled as desired by one of the administrations with a notice of three months if frequencies are to be transferred from the NMT-system to the GSM-systems.
- 4.2 This agreement may otherwise be revised or cancelled as desired by one of the administrations with a notice of one year.
- 4.3 If no agreement is reached then, CEPT Recommendation T/R 20-08 shall apply.

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

Stockholm, 12 February 1996



Oslo, <sup>September</sup> ~~13 February~~ 1996



**ANNEX 1**  
**Assignment of preferential frequencies between Norway and Sweden**

Frequencyband: 890 - 915 / 935 - 969 MHz  
 From 1 March 1996 until 31 December 1996

From 1 January 1997

Channel #	frequency (MHz)	frequency (MHz)	preference channels	S operator	NOR operator	preference channels	S operator	NOR operator
	890	935		NMT	NMT		NMT	NMT
1	890,2	935,2		NMT	NMT		NMT	NMT
2	890,4	935,4		NMT	NMT		NMT	NMT
3	890,6	935,6		NMT	NMT		NMT	NMT
4	890,8	935,8		NMT	NMT		NMT	NMT
5	891	936		NMT	NMT		NMT	NMT
6	891,2	936,2		NMT	NMT		NMT	NMT
7	891,4	936,4		NMT	NMT		NMT	NMT
8	891,6	936,6		NMT	NMT		NMT	NMT
9	891,8	936,8		NMT	NMT		NMT	NMT
10	892	937		NMT	NMT		NMT	NMT
11	892,2	937,2		NMT	NMT		NMT	NMT
12	892,4	937,4		NMT	NMT		NMT	NMT
13	892,6	937,6		NMT	NMT		NMT	NMT
14	892,8	937,8		NMT	NMT		NMT	NMT
15	893	938		NMT	NMT		NMT	NMT
16	893,2	938,2		NMT	NMT		NMT	NMT
17	893,4	938,4		NMT	NMT		NMT	NMT
18	893,6	938,6		NMT	NMT		NMT	NMT
19	893,8	938,8		NMT	NMT		NMT	NMT
20	894	939		NMT	NMT		NMT	NMT
21	894,2	939,2		NMT	NMT		NMT	NMT
22	894,4	939,4		NMT	NMT		NMT	NMT
23	894,6	939,6		NMT	NMT		NMT	NMT
24	894,8	939,8		NMT	NMT		NMT	NMT
25	895	940		NMT	NMT		NMT	NMT
26	895,2	940,2		NMT	NMT		NMT	NMT
27	895,4	940,4		NMT	NMT		NMT	NMT
28	895,6	940,6		NMT	NMT		NMT	NMT
29	895,8	940,8		NMT	NMT		NMT	NMT
30	896	941		NMT	NMT		NMT	NMT
31	896,2	941,2		NMT	NMT		NMT	NMT
32	896,4	941,4		NMT	NMT		NMT	NMT
33	896,6	941,6		NMT	NMT		NMT	NMT
34	896,8	941,8		Telia	NMT	NOR	Telia	NMT
35	897	942		Telia	NMT	NOR	Telia	NMT
36	897,2	942,2		Telia	NMT	NOR	Telia	NMT
37	897,4	942,4		Telia	NMT	NOR	Telia	NMT
38	897,6	942,6		Telia	NMT	NOR	Telia	NMT
39	897,8	942,8		Telia	NMT	NOR	Telia	Telenor
40	898	943		Telia	NMT	NOR	Telia	Telenor
41	898,2	943,2		Telia	NMT	NOR	Telia	Telenor
42	898,4	943,4		Telia	NMT	NOR	Telia	Telenor
43	898,6	943,6		Telia	NMT	NOR	Telia	Telenor
44	898,8	943,8		Telia	NMT	NOR	Telia	Telenor
45	899	944		Telia	NMT	(NOR)	Telia	Telenor
46	899,2	944,2	S	Telia	NMT	S	Telia	Telenor
47	899,4	944,4	S	Telia	NMT	S	Telia	Telenor
48	899,6	944,6	S	Telia	NMT	S	Telia	Telenor
49	899,8	944,8	S	Telia	NMT	S	Telia	Telenor
50	900	945	S	Telia	NMT	S	Telia	Telenor
51	900,2	945,2	S	Telia	Telenor	S	Telia	Telenor
52	900,4	945,4	S	Telia	Telenor	S	Telia	Telenor
53	900,6	945,6	S	Telia	Telenor	S	Telia	Telenor
54	900,8	945,8	S	Telia	Telenor	S	Telia	Telenor
55	901	946	S	Telia	Telenor	S	Telia	Telenor
56	901,2	946,2	S	Telia	Telenor	S	Telia	Telenor
57	901,4	946,4	(S)	Telia	Telenor	(S)	Telia	Telenor
58	901,6	946,6	NOR	Telia	Telenor	NOR	Telia	Telenor
59	901,8	946,8	NOR	Telia	Telenor	NOR	Telia	Telenor

60	902	947	NOR	Telia	Telenor	NOR	Telia	Telenor
61	902,2	947,2	NOR	Telia	Telenor	NOR	Telia	Telenor
62	902,4	947,4	NOR		Telenor	NOR		Telenor
63	902,6	947,6	NOR	Comviq	Telenor	NOR	Comviq	Telenor
64	902,8	947,8	NOR	Comviq	Telenor	NOR	Comviq	Telenor
65	903	948	NOR	Comviq	Telenor	NOR	Comviq	Telenor
66	903,2	948,2	NOR	Comviq	Telenor	NOR	Comviq	Telenor
67	903,4	948,4	NOR	Comviq	Telenor	NOR	Comviq	Telenor
68	903,6	948,6	NOR	Comviq	Telenor	NOR	Comviq	Telenor
69	903,8	948,8	NOR	Comviq	Telenor	NOR	Comviq	Telenor
70	904	949	NOR	Comviq	Telenor	NOR	Comviq	Telenor
71	904,2	949,2	NOR	Comviq	Telenor	NOR	Comviq	Telenor
72	904,4	949,4	NOR	Comviq	Telenor	NOR	Comviq	Telenor
73	904,6	949,6	NOR	Comviq	Telenor	NOR	Comviq	Telenor
74	904,8	949,8	NOR	Comviq	Telenor	NOR	Comviq	Telenor
75	905	950	NOR	Comviq	Telenor	NOR	Comviq	Telenor
76	905,2	950,2	(NOR)	Comviq	Telenor	(NOR)	Comviq	Telenor
77	905,4	950,4	S	Comviq	Telenor	S	Comviq	Telenor
78	905,6	950,6	S	Comviq	Telenor	S	Comviq	Telenor
79	905,8	950,8	S	Comviq	Telenor	S	Comviq	
80	906	951	S	Comviq	Telenor	S	Comviq	NetCom
81	906,2	951,2	S	Comviq	Telenor	S	Comviq	NetCom
82	906,4	951,4	S	Comviq	Telenor	S	Comviq	NetCom
83	906,6	951,6	S	Comviq	Telenor	S	Comviq	NetCom
84	906,8	951,8	S	Comviq	Telenor	S	Comviq	NetCom
85	907	952	S	Comviq		S	Comviq	NetCom
86	907,2	952,2	S	Comviq	NetCom	S	Comviq	NetCom
87	907,4	952,4	S	Comviq	NetCom	S	Comviq	NetCom
88	907,6	952,6	S	Comviq	NetCom	S	Comviq	NetCom
89	907,8	952,8	(NOR)	Comviq	NetCom	(NOR)	Comviq	NetCom
90	908	953	NOR	Comviq	NetCom	NOR	Comviq	NetCom
91	908,2	953,2	NOR		NetCom	NOR		NetCom
92	908,4	953,4	NOR	Europolitan	NetCom	NOR	Europolitan	NetCom
93	908,6	953,6	NOR	Europolitan	NetCom	NOR	Europolitan	NetCom
94	908,8	953,8	NOR	Europolitan	NetCom	NOR	Europolitan	NetCom
95	909	954	NOR	Europolitan	NetCom	NOR	Europolitan	NetCom
96	909,2	954,2	NOR	Europolitan	NetCom	NOR	Europolitan	NetCom
97	909,4	954,4	NOR	Europolitan	NetCom	NOR	Europolitan	NetCom
98	909,6	954,6	NOR	Europolitan	NetCom	NOR	Europolitan	NetCom
99	909,8	954,8	NOR	Europolitan	NetCom	NOR	Europolitan	NetCom
100	910	955	NOR	Europolitan	NetCom	NOR	Europolitan	NetCom
101	910,2	955,2	NOR	Europolitan	NetCom	NOR	Europolitan	NetCom
102	910,4	955,4	NOR	Europolitan	NetCom	NOR	Europolitan	NetCom
103	910,6	955,6	NOR	Europolitan	NetCom	NOR	Europolitan	NetCom
104	910,8	955,8	NOR	Europolitan	NetCom	NOR	Europolitan	NetCom
105	911	956	NOR	Europolitan	NetCom	NOR	Europolitan	NetCom
106	911,2	956,2	NOR	Europolitan	NetCom	NOR	Europolitan	NetCom
107	911,4	956,4	NOR	Europolitan	NetCom	NOR	Europolitan	NetCom
108	911,6	956,6	(S)	Europolitan	NetCom	(S)	Europolitan	NetCom
109	911,8	956,8	S	Europolitan	NetCom	S	Europolitan	NetCom
110	912	957	S	Europolitan	NetCom	S	Europolitan	NetCom
111	912,2	957,2	S	Europolitan	NetCom	S	Europolitan	NetCom
112	912,4	957,4	S	Europolitan	NetCom	S	Europolitan	NetCom
113	912,6	957,6	S	Europolitan	NetCom	S	Europolitan	NetCom
114	912,8	957,8	S	Europolitan	NetCom	S	Europolitan	NetCom
115	913	958	S	Europolitan	NetCom	S	Europolitan	NetCom
116	913,2	958,2	S	Europolitan	NetCom	S	Europolitan	NetCom
117	913,4	958,4	S	Europolitan	NetCom	S	Europolitan	NetCom
118	913,6	958,6	S	Europolitan	NetCom	S	Europolitan	NetCom
119	913,8	958,8	S	Europolitan	NetCom	S	Europolitan	NetCom
120	914	959		CT-1	CT-1		CT-1	CT-1
121	914,2	959,2		CT-1	CT-1		CT-1	CT-1
122	914,4	959,4		CT-1	CT-1		CT-1	CT-1
123	914,6	959,6		CT-1	CT-1		CT-1	CT-1
124	914,8	959,8		CT-1	CT-1		CT-1	CT-1