



MEMORANDUM OF UNDERSTANDING CONCLUDED BETWEEN FRANCE

AND

THE UNITED KINGDOM
FOR FREQUENCY CO-ORDINATION IN THE
880 – 915 MHz AND 925 – 960 MHz
FREQUENCY BANDS
TO BE APPLIED IN THE AREA INCLUDING FRANCE AND
THE CHANNEL ISLANDS

(E-GSM and GSM bands)

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1- INTRODUCTION

- Within France and the United Kingdom, the frequency bands 880 890 MHz and 925 935 MHz are designated to be used for E-GSM ¹ and the frequency bands 890 915 and 935 960 MHz are designated to be used for GSM ².
- 1.2 Within this MoU, unless stated otherwise, the term GSM includes E-GSM and GSM.
- 1.3 In order to minimise problems of interference between the systems operating in neighbouring countries, it is necessary to establish agreements for regulatory and technical procedures for frequency co-ordination. These agreements should be designed to reduce the administrative procedures and permit a rapid deployment of GSM in the frequency bands in the countries concerned.
- 1.4 The Administration of United Kingdom is responsible for all relations with France concerning this agreement.
- 1.5 The Administrations of the United Kingdom and the Channel Islands plan to licence operators in the E-GSM frequency bands in the Channel Islands.
- 1.6 In France, the frequency bands 880 890 MHz and 925 935 MHz are also used by the Ministry of Defence for tactical radio relay. This band should be progressively allocated to operators by the end of 2004.
- 1.7 This MoU abrogates the previous MoUs between France and United Kingdom for Channel Islands, for the GSM and E-GSM frequency bands, respectively dated 20 April 2000 and 9 January 2003.
- 1.8 Accordingly, the Administrations of the United Kingdom and France have agreed the following co-ordination procedures.

2- TECHNICAL PROVISIONS

2.1 Preferential frequencies

The co-ordination procedure shall be based on the concept of preferential frequencies. The bands 880 - 915 MHz and 925 - 960 MHz shall be divided into groups of frequencies which shall be assigned between the two countries as "preferential bands".

2.2 Trigger values

For the preferential and non-preferential bands, "trigger values" shall be defined as follows:

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¹ ERC Decision (97) 02 of 21 March 1997 on the extended frequency bands to be used for the GSM Digital Pan-European Communications System.

² ERC Decision (94) 01 of 24th October 1994 on the frequency bands to be designated for the coordinated introduction of the GSM digital pan-European communications system.

Preferential	frequencies	32 dBμV/m
Non-preferential	19 dBμV/m	

2.3 Field strength prediction

The field strength shall be predicted by the method given in paragraph 2.6 below and shall take into account the percentage of time for which that field strength is expected to be exceeded.

2.4 Use of the preferential bands

A base station may be established without co-ordination in a preferential band allocated to a country, provided that the predicted field strength at all points on the coastline of the other country does not exceed the higher of the trigger values given in the table of paragraph 2.2.

2.5 Use of the non-preferential bands

A base station may be established without co-ordination on a frequency outside the preferential bands allocated to a country, provided that the predicted field strength at all points on the coastline of the other country does not exceed the lower of the trigger values. Neither such a base station, nor the mobiles served by it, may claim protection from interference caused by a station of the neighbouring country respecting the conditions of paragraph 2.4 above.

2.6 Propagation prediction method

The field prediction method shall be according to Recommendation ITU-R P.1546³ which shall be applied as follows:

For preferential channels:

50% of the time and 50% of locations for land

50% of the time and 50% of locations for cold sea

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 $^{^3}$ Recommendation ITU-R P.1546, Method for point-to-area predictions for terrestrial services in the frequency range 30 MHz to 3 000 MHz

For non-preferential channels:

10% of the time and 50% of locations for land

10% of the time and 50% of locations for cold sea

Taking account of:

height of the mobile receiver antenna set at 3 m (The conversion factor from 10 m to 3 m shall be -10dB) average terrain height for the base station in all main directions type of terrain (e.g. land, sea, mixed path) effective radiated power Antenna tilt and azimuth Terrain clearance angle.

3- ARRANGEMENTS FOR PLANNING AT AN OPERATIONAL LEVEL

An MoU between the administrations of France and the United Kingdom which enables co-ordination between operators, subject to agreement of the Administrations, was signed on the 13th October 1999⁴.

4- TACTICAL RADIO RELAY

Until the planned migration of radio relay links is completed by the end of 2004, base and mobile stations in the Channel Islands using the frequency bands 880 - 885 MHz and 925 - 930 MHz, shall not claim protection from the tactical radio relay in France.

5 - EXCHANGE OF INFORMATION

Exchanges of information for co-ordination purposes shall be in the format set out in the "Agreement 2003 (Berlin, November 2003)" in force and in accordance with the procedures described therein.

6- REVIEW AND FOLLOW UP OF THE MEMORANDUM OF UNDERSTANDING

This agreement shall be reviewed two years after date of entry into force. Either Administration may request a review of this MoU. Any part of this MoU may be revised in the light of future developments and experience in the operation of the networks covered by the MoU.

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⁴ Agreement between the administrations of France and the United Kingdom concerning the approval of planning arrangements between mobile radio communications network operators. 13 October 1999.

7- TERMINATION OF THE MEMORANDUM OF UNDERSTANDING

Either Administration may withdraw from this Memorandum of Understanding subject to 6 months notice.

8- LANGUAGE OF THE MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding is drafted in the French and English languages, both languages having equal authority.

The original version in English is laid down with Ofcom in London, the original version in French is laid down with the Agence Nationale des Fréquences in Maisons-Alfort.

9- DATE OF ENTRY INTO FORCE

This Memorandum of Understanding will enter into force on 2nd January 2005.

Done at Jersey on

23rd June 2004.

For FRANCE

For the UNITED KINGDOM

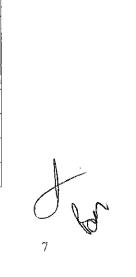
A. RIGOLE

B. LAST

ANNEX 1
DIVISION INTO PREFERENTIAL FREQUENCIES

Channel	Mobile Transmit (MHz)	Base Transmit (MHz)	Country
975	880.2	925.2	Channel Islands
976	880.4	925.4	Channel Islands
977	880.6	925.6	Channel Islands
978	880.8	925.8	Channel Islands
979	881.0	926.0	Channel Islands
980	881.2	926.2	Channel Islands
981	881.4	926.4	Channel Islands
982	881.6	926.6	Channel Islands
983	881.8	926.8	Channel Islands
984	882.0	927.0	Channel Islands
985	882.2	927.2	France
986	882.4	927.4	France
987	882.6	927.6	France
988	882.8	927.8	France
989	883.0	928.0	France
990	883.2	928.2	France
991	883.4	928.4	France
992	883.6	928.6	France
993	883.8	928.8	France
994	884.0	929.0	France
995	884.2	929.2	France
996	884.4	929.4	France
997	884.6	929.6	France
998	884.8	929.8	France
999	885.0	930.0	France
1000	885.2	930.2	France
1001	885.4	930.4	France
1002	885.6	930.6	France
1003	885.8	930.8	France
1004	886.0	931.0	France
1005	886.2	931.2	France
1006	886.4	931.4	France
1007	886.6	931.6	France

1008	886.8	931.8	France
1009	887.0	932.0	France
1010	887.2	932.2	France
1011	887.4	932.4	France
1012	887.6	932.6	France
1013	887.8	932.8	France
1014	0.888	933.0	France
1015	888.2	933.2	Channel Islands
1016	888.4	933.4	Channel Islands
1017	888.6	933.6	Channel Islands
1018	8.888	933.8	Channel Islands
1019	889.0	934.0	Channel Islands
1020	889.2	934.2	Channel Islands
1021	889.4	934.4	. Channel Islands
1022	889.6	934.6	Channel Islands
1023	889.8	934.8	Channel Islands
1024	890.0	935.0	Channel Islands
1	890.2	935.2	France
, 2	890.4	935.4	France
3	890.6	935.6	France
4	890.8	935,8	France
5	891.0	936.0	France
6	891.2	936.2	France
7	891.4	936.4	France
8	891.6	936.6	France
9	891.8	936.8	France
10	892.0	937.0	France
11	892.2	937.2	France
12	892.4	937.4	France
13	892.6	937.6	France
14	892.8	937.8	France
15	893.0	938.0	France
. 16	893.2	938.2	France
17	893.4	938.4	France
18	893.6	938.6	France
19	893.8	938.8	France
20	894.0	939.0	France



21	894.2	939.2	France
22	894.4	939.4	France
23	894.6	939.6	France
24	894.8	939.8	France
25	895,0	940.0	France
26	895.2	940.2	France
27	895.4	940.4	France
28	895,6	940.6	France
29	895.8	940.8	France
30	896.0	941.0	France
31	896.2	941.2	France
32	896.4	941.4	France
33	896.6	941.6	France
34	896.8	941.8	France
35	897.0	942.0	France
36	897.2	942.2	France
37	897.4	942.4	France
38	897.6	942.6	France
39	897.8	942.8	Channel Islands
40	898.0	943.0	Channel Islands
41	898.2	943.2	Channel Islands
42	898.4	943.4	Channel Islands
43	898.6	943.6	Channel Islands
44	898.8	943.8	Channel Islands
45	899.0	944.0	Channel Islands
46	899.2	944.2	Channel Islands
47	899.4	944.4	Channel Islands
48	899.6	944.6	Channel Islands
49	899.8	944.8	Channel Islands
50	900.0	945.0	Channel Islands
51	900.2	945.2	Channel Islands
52	900.4	945.4	Channel Islands
53	900.6	945.6	Channel Islands
54	900.8	945.8	Channel Islands
55	901.0	946.0	Channel Islands
56	901.2	946.2	Channel Islands
57	901.4	946.4	Channel Islands
58	901.6	946.6	Channel Islands



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59	901.8	946.8	Channel Islands
60	902.0	947.0	Channel Islands
61	902.2	947.2	Channel Islands
62	902.4	947.4	Channel Islands
63	902.6	947.6	Channel Islands
64	902.8	947.8	Channel Islands
65	903.0	948.0	Channel Islands
66	903.2	948.2	Channel Islands
67	903.4	948.4	Channel Islands
68	903.6	948.6	Channel Islands
69	903.8	948.8	Channel Islands
70	904.0	949.0	Channel Islands
71	904.2	949.2	Channel Islands
72	904.4	949.4	Channel Islands
73	904.6	949.6	Channel Islands
74	904.8	949.8	Channel Islands
75	905.0	950.0	Channel Islands
76	905.2	950.2	Channel Islands
77	905.4	950.4	Channel Islands
78	905.6	950.6	Channel Islands
79	905.8	950.8	Channel Islands
80	906.0	951.0	Channel Islands
81	906.2	951.2	Channel Islands
82	906.4	951.4	Channel Islands
83	906.6	951.6	Channel Islands
84	906.8	951.8	Channel Islands
85	907.0	952.0	Channel Islands
86	907.2	952.2	Channel Islands
87	907.4	952.4	France
88	907.6	952.6	France
89	907.8	952.8	France
90	908.0	953.0	France
91	908.2	953.2	France
92	908.4	953.4	France
93	908.6	953.6	France
94	908.8	953.8	France
95	909.0	954.0	France
96	909.2	954.2	France

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97	909.4	954.4	France
98	909.6	954.6	France
99	909.8	954.8	France
100	910.0	955.0	France
101	910.2	955.2	France
102	910.4	955.4	France
103	910.6	955.6	France
104	910.8	955.8	France
105	911.0	956.0	France
106	911.2	956.2	France
107	911.4	956.4	France
108	911.6	956.6	France
109	911.8	956.8	France
110	912.0	957.0	France
111	912.2	957.2	France
112	912.4	957.4	France
113	912.6	957.6	France
114	912.8	957.8	France
115	913.0	958.0	France
116	913.2	958.2	France
117	913.4	958.4	France
118	913.6	958.6	France
119	913.8	958.8	France
120	914.0	959.0	France
121	914.2	959.2	France
122	914.4	959.4	France
123	914.6	959.6	France
124	914.8	959.8	France

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