

#### Results of coverage map consistency measurements performed by operators in 2007

The consistency rate expresses the rate of calls successfully made and maintained in the areas reputed to be covered by the operators. It corresponds to the "coverage rate in an area reputed to be covered" indictor of the protocol of 20 February 2007.

<u>N.B.</u>: this indicator does not express the operator's coverage rate but the precision of the coverage map the operator has published. Due especially to radio propagation uncertainties, 100% consistency is difficult to attain.

Dpt Canton Canton name Consistency rate in the area reputed to be covered Consistency rate in the area reputed to be covered

Average on the districts of Sedan and Vouziers (Ardennes département)

	Taux de cohérence de la zone réputée couverte 99% 99%
Dpt Canton Nom du canton de la zone réputée couverte 08 02 ATTIGNY 99%	de la zone réputée couverte 99%
DptCantonNom du cantoncouverte0802ATTIGNY99%	couverte 99%
08 02 ATTIGNY 99%	99%
100 03   BUZANCT   05%	
08 04 CARIGNAN 97%	99%
08 08 LE CHESNE 97%	98%
08 12 GRANDPRE 99%	99%
08 14 MACHAULT 100%	100%
08 17 MONTHOIS 97%	99%
08 18 MOUZON 95%	97%
08 21 RAUCOURT-ET-FLABA 98%	90%
08 26 SEDAN-NORD 99%	96%
08 27 SEDAN-EST 99%	99%
08 30 TOURTERON 94%	98%
08 31 VOUZIERS 99%	100%
08 36 SEDAN-OUEST 100%	99%
08 99 SEDAN 100%	100%
Moyenne sur les arrondissements de Sedan et	
Vouziers (dep. des Ardennes)  97%	98%
27 01 AMFREVILLE-LA-CAMPAGNE 93%	97%
27 03 BEAUMESNIL 98%	96%
27 04 BEAUMONT-LE-ROGER 97%	99%
27 05 BERNAY-OUEST 99%	100%
27 06 BEUZEVILLE 98%	98%
27 07 BOURGTHEROULDE-INFREVILLE 99%	99%
27 08 BRETEUIL 98%	99%
27 09 BRIONNE 98%	99%
27 10 BROGLIE 99%	99%
27 11 CONCHES-EN-OUCHE 98%	99%
27         12         CORMEILLES         99%           27         13         DAMVILLE         99%	98 % 99 %
2. 1.0	
27         16         EVREUX-NORD         100%           27         17         EVREUX-SUD         100%	100% 100%
27         17         EVREUX-SUD         100%           27         21         LOUVIERS-NORD         99%	100%
27   23   MONTFORT-SUR-RISLE   95%	99%
27 24 LE NEUBOURG 98%	99%
27 25 NONANCOURT 98%	99%
27 26 PACY-SUR-EURE 99%	98%
27 27 PONT-AUDEMER 98%	99%
27 29 QUILLEBEUF-SUR-SEINE 99%	98%

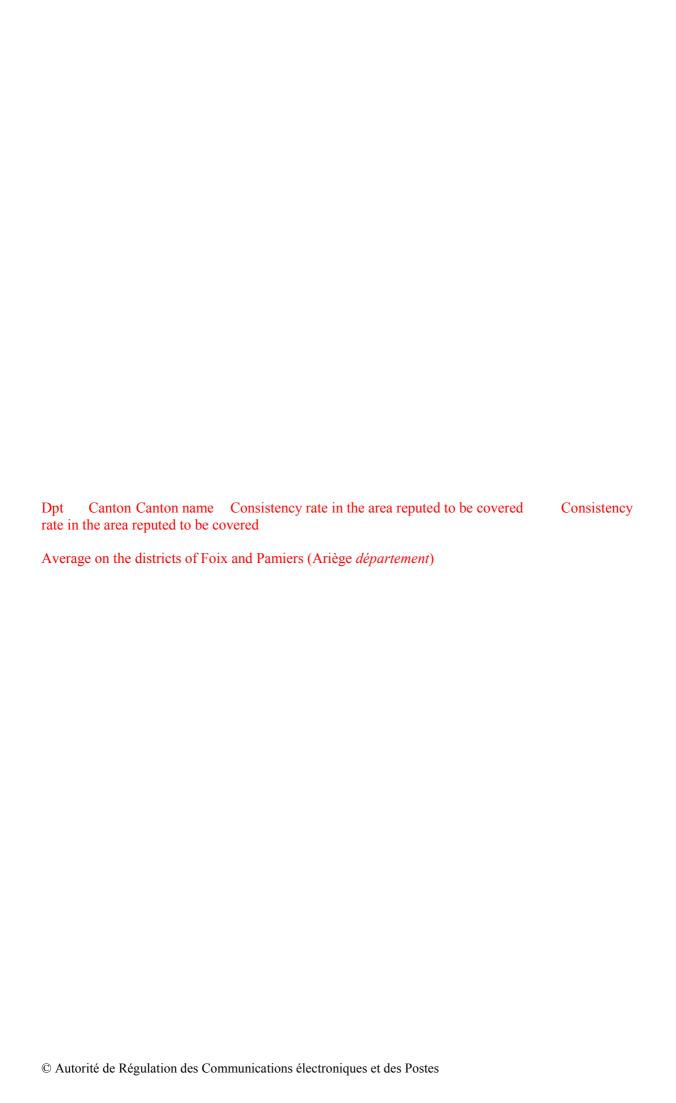
Dpt Canton Canton name Consistency rate in the area reputed to be covered rate in the area reputed to be covered

Consistency

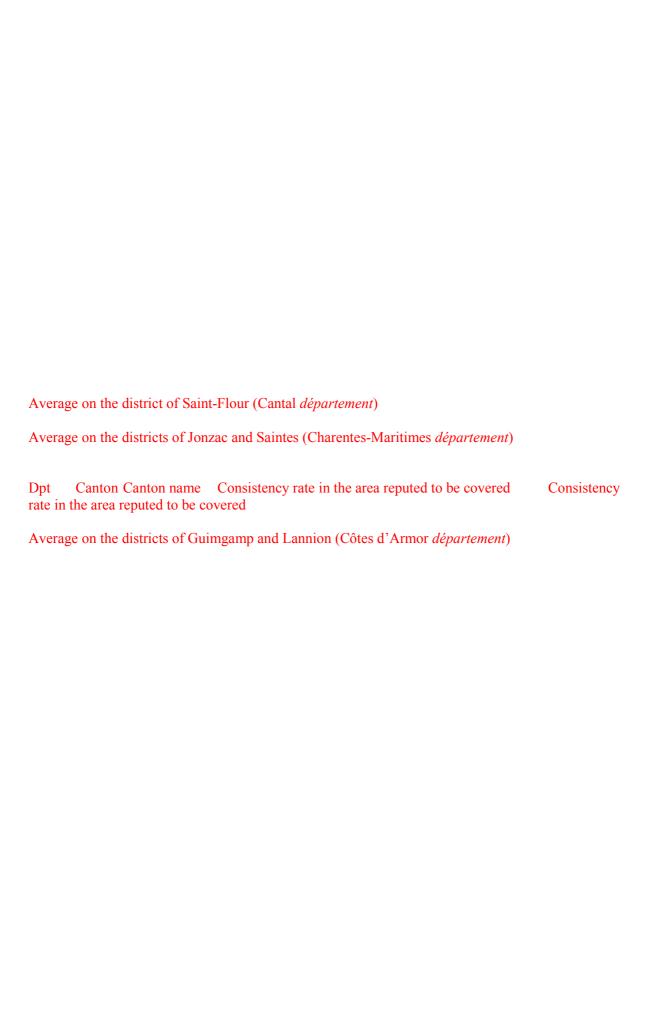
Average on the districts of Bernay and Evreux (Eure département)

			Orange France	SFR
Dpt	Canton	Nom du canton	Taux de cohérence de la zone réputée couverte	Taux de cohérence de la zone réputée couverte
27	30	ROUTOT	99%	100%
27	31	RUGLES	99%	100%
27	32	SAINT-ANDRE-DE-L'EURE	98%	100%
27	33	SAINT-GEORGES-DU-VIEVRE	96%	95%
27	34	THIBERVILLE	100%	99%
27	35	VERNEUIL-SUR-AVRE	98%	100%
27	36	VERNON-NORD	100%	100%
27	37	EVREUX-EST	100%	99%
27	38	EVREUX-OUEST	99%	100%
27	39	LOUVIERS-SUD	99%	98%
27	40	VERNON-SUD	100%	98%
27	41	BERNAY-EST	98%	99%
27	96	BERNAY	99%	100%
27	97	VERNON	100%	100%
27	98	LOUVIERS	100%	100%
27				
Moyenne sur les arron dissements de Bernay et Evreux (dep. de l'Eure)			99%	99%
41	01	BLOIS 1er CANTON	100%	100%
41	02	BLOIS 2e CANTON	100%	97%
41	03	BRACIEUX	93%	95%
41	04	CONTRES	98%	96%
41	06	HERBAULT	99%	97%
41	07	LAMOTTE-BEUVRON MARCHENOIR	94%	99%
41	08 09	MENNETOU-SUR-CHER	99 % 96 %	96% 94%
41	10	MER	99%	97%
41	13	MONTRICHARD	97%	88%
41	15	NEUNG-SUR-BEUVRON	92%	97%
41	16	OUZOUER-LE-MARCHE	99%	96%
41	17	ROMORANTIN-LANTHENAY-NORD	71%	79%
41	18	SAINT-AIGNAN	94%	96%
41	20	SALBRIS	78%	97%
41	22	SELLES-SUR-CHER	93%	96%
41	27	BLOIS 5e CANTON	100%	98%
41	29	ROMORANTIN-LANTHENAY-SUD	84%	94%
41	30	VINEUIL	99%	99%
41	97	ROMORANTIN-LANTHENAY	99%	100%
41	99	BLOIS	100%	99%
		sur les arrondissements de Blois et n-Lanthenay (dep. du Loir-et-Cher)	94%	96%

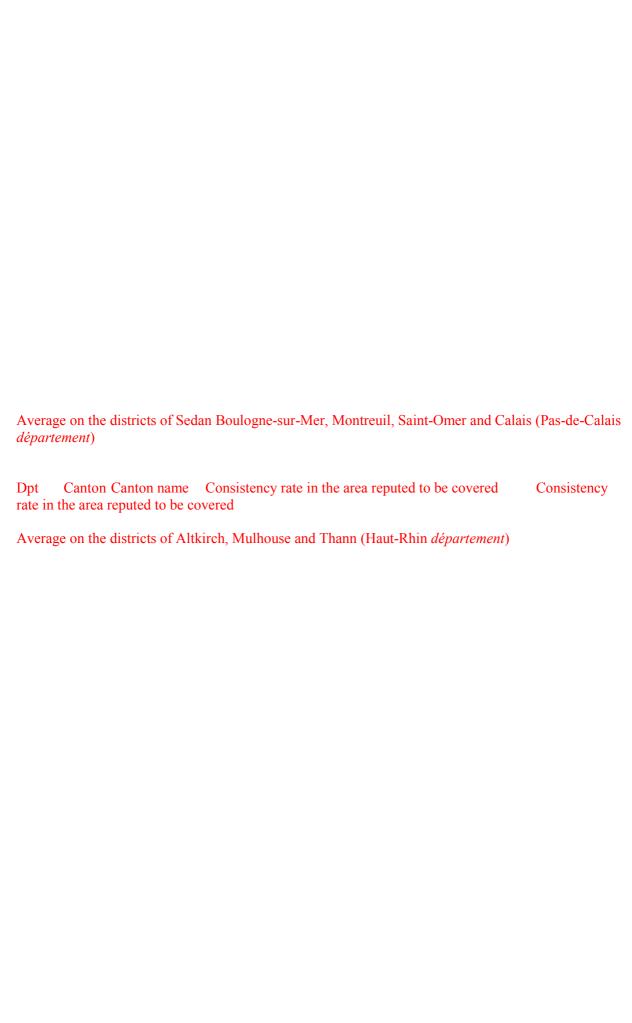
Average on the districts of Blois and Romorantin-LAnthenay (Loire-et-Cher département)



			Orange France	SFR		
			Taux de cohérence	Taux de cohérence		
			de la zone réputée	de la zone réputée		
Dot	Canton	Nom du canton	couverte	couverte		
09	01	AX-LES-THERMES	98%	99%		
09	02 03	LA BASTIDE-DE-SÉROU LES CABANNES	92% 96%	94 % 98 %		
09	05	FOIX-VILLE	96%	100%		
09	06	LE FOSSAT	98%	98%		
09	07 08	LAVELANET LE MAS-D'AZIL	98% 94%	98% 99%		
09	10	MIREPOIX	89%	98%		
		PAMIERS-OUEST				
09 09	12 13	QUÉRIGUT	99% 98%	93 % 99 %		
		SAVERDUN	98%			
09	17			99%		
09	18	TARASCON-SUR-ARIÈGE	99%	100%		
09	19	VARILHES	100%	98%		
09	20	VICDESSOS FOIX-RURAL	96%	100%		
09	21		96%	99%		
09	22	PAMIERS-EST	96%	100%		
09	99	PAMERS	99%	100%		
Mo		ur les arrondissements de Foix et amiers (dep. de l'Ariège)	96%	98%		
15	01	ALLANCHE	96%	99%		
15	05	CHAUDES-AIGUES	98%	99%		
15	06	CONDAT	94%	98%		
15	08	MASSIAC	95%	98%		
15	12	MURAT	99%	99%		
15	13	PIERREFORT	95%	99%		
15	16	RUYNES-EN-MARGERIDE	94%	99%		
15	19	SAINT-FLOUR-NORD	94%	100%		
15	20			96%		
15	99	SAINT-FLOUR	100%	100%		
Moyenne sur l'arrondissement de Saint-Flour			96%	99%		
17	02	(dep. du Cantal) ARCHIAC	93%	99%		
17	05	BURIE	88%	98%		
17	08	COZES	87%	99%		
17	09	GEMOZAC	90%	99%		
17	11	JONZAC	91%	99%		
17	16	MIRAMBEAU	91%	98%		
17	17	MONTENDRE	98%	98%		
17	18	MONTGUYON	78%	98%		
17	19			98%		
17	20	MONTLIEU-LA-GARDE   92%   98%				
17	27	SAINT-GENIS-DE-SAINTONGE 98% 100%				
		3373				
17	32 34			100% 99%		
17 17	3 <del>4</del> 35					
17	36	SAINTES-OUEST         85%         100%           SAUJON         88%         100%				
$\vdash$		SAINTES-EST	92%	99%		
17 17	51 99	SAINTES-EST SAINTES	100%	100%		
	-		91%	99%		
e	et Saintes (dep. des Charentes-Maritimes)					



			Orange France	SFR	
			Taux de cohérence	Taux de cohérence	
Dnt	Canton	Nom du canton	de la zone réputée couverte	de la zone réputée couverte	
22	Canton 01	BEGARD	100%	95%	
22	02 03	BELLE-ISLE-EN-TERRE BOURBRIAC	93% 99%	93% 95%	
22	05	CALLAC	100%	96%	
22	15	GOUAREC	98%	90%	
22	16	GUINGAMP	96%	98%	
22	19	LANNION	99%	100%	
22	21	LEZARDRIEUX	95%	95%	
22	23	MAËL-CARHAIX	99%	93%	
22	27	MÜR-DE-BRETAGNE	97%	94%	
22	29	PERROS-GUIREC	97%	99%	
22	33	PLESTIN-LES-GRÈVES	99%	93%	
22	35	PLOUAGAT	97%	97%	
22	36	PLOUARET	100%	97%	
22	40	PONTRIEUX	99%	92%	
22	42	LA ROCHE-DERRIEN	100%	96%	
22	43	ROSTRENEN	99%	96%	
22	46	SAINT-NICOLAS-DU-PELEM	98%	97%	
22	47	TREGUIER	99%	98%	
		ne sur les arrondissements de	3370	30 70	
	-	mp et Lannion (dep. des Côtes	98%	95%	
	Cumga	d'Armor)	0070	<b>55</b> 76	
62	01	AIRE-SUR-LA-LYS	97%	99%	
62	02	ARDRES	97%	98%	
62	06	AUDRUICQ	99%	99%	
62	13	BOULOGNE-SUR-MER-NOR	98%	94%	
62	14	BOULOGNE-SUR-MER-SUD	100%	95%	
62	15	CALAIS-NORD-OUEST	99%	99%	
62	16	CALAIS-CENTRE	96%	99%	
62	18	CAMPAGNE-LÈS-HESDIN	94%	95%	
62	21	DESVRES	98%	96%	
62	22	ETAPLES	94%	96%	
62	23	FAUQUEMBERGUES	95%	95%	
62	24	FRUGES	97%	94%	
62	25	GUÎNES	98%	96%	
62	26	HESDIN	96%	97%	
62	29	HUCQUELIERS	97%	90%	
62	34	LUMBRES	96%	94%	
62	36	MARQUISE	99%	96%	
62	37	MONTREUIL	98%	96%	
62	41	SAINT-OMER-NORD	99%	99%	
62	42	SAINT-OMER-SUD	99%	99%	
62	44	SAMER	99%	96%	
62	54	CALAIS-EST 100%		100%	
62	61	OUTREAU	100%	95%	
62	62	ARQUES	99%	100%	
62	65	BOULOGNE-SUR-MER-NOR	100% 99%	99%	
62	69	BERCK	97%		
62	76	LE PORTEL	99%		
62	97	BOULOGNE-SUR-MER 100% 96%			
62	98	CALAIS SAINT OMED	100%	100%	
62	99	SAINT-OMER	100%	100%	
Во	ulogne-	ne sur les arrondissements de Sur-Mer, Montreuil, Saint-Omer et ais (dep. du Pas-de-Calais)	98%	97%	



			Orange France	SFR
Dpt	Canton	Nom du canton	Taux de cohérence de la zone réputée couverte	Taux de cohérence de la zone réputée couverte
68	01	ALTKIRCH	93%	96%
68	03	CERNAY	96%	99%
68	05	DANNEMARIE	94%	98%
68	03	FERRETTE	88%	96%
68	09	HABSHEIM	95%	100%
68	10	HIRSINGUE	96%	98%
68	11	HUNINGUE	89%	94%
		SIERENTZ		
68 68	13 15	MASEVAUX	92%	100% 98%
68	17	MULHOUSE-SUD	100% 97%	98%
68	22	SAINT-AMARIN	97%	94%
68	25	THANN	96%	97%
68	27	WITTENHEIM ILLZACH	96%	100%
68	31		98%	100%
68	99	MULHOUSE	99%	100%
		ur les arrondissements de Altkirch, se et Thann (dep. Du Haut-Rhin)	95%	98%
71	01	AUTUN-NORD	100%	100%
71	03	BOURBON-LANCY	96%	99%
71	08	LA CHAPELLE-DE-GUINCHAY	99%	99%
71	09			100%
71	10	CHAUFFAILLES	98%	100%
71	11	LA CLAYETTE	96%	99%
71	12	CLUNY	99%	96%
71	13	COUCHES	99%	100%
71	14	LE CREUSOT-EST	96%	100%
71	17	DIGOIN	98%	99%
71	18	ÉPINAC	93%	99%
71	20	GUEUGNON	92%	98%
71	21	LA GUICHE	96%	100%
71	22	ISSY-L'ÉVÉQUE	94%	99%
71	24	LUCENAY-L'ÉVÊQUE	100%	98%
71	25	LUGNY	99%	98%
71	26	MÂCON-NORD	99%	96%
71	27	MÂCON-SUD	95%	98%
71	28	MARCIGNY	93%	99%
71	29	MATOUR	98%	99%
71	30	MESVRES	99%	96%
71	32	MONTCENIS	100%	100%
71	37	PALINGES	97%	99%
71	38	PARAY-LE-MONIAL	94%	99%
71	40	SAINT-BONNET-DE-JOUX	96%	99%
71	41	SAINT-GENGOUX-LE-NATIONAL	97%	100%
71	44	SAINT-LÉGER-SOUS-BEUVRAY	99%	97%
71	46	SEMUR-EN-BRIONNAIS	98%	99%
71	48	TOULON-SUR-ARROUX	95%	100%
71	49	TOURNUS	95%	99%
71	50	TRAMAYES	100%	98%
71	52	AUTUN-SUD	96%	100%
71	55	MÂCON-CENTRE	98%	99%
71	95	AUTUN	98%	99%
71	96	LE CREUSOT	97%	99%
/	90	LL OILLOOO I	9170	99 /0

Dpt Canton Canton name Consistency rate in the area reputed to be covered Consistency rate in the area reputed to be covered

Average on the districts of Autun, Charolles and Mâcon (Saône-et-Loire département)

			Orange France	SFR
	Canton	Nom du canton	Taux de cohérence de la zone réputée couverte	Taux de cohérence de la zone réputée couverte
71	99	MACON	99%	99%
Moyenne sur les arrondissements de Autun, Charolles et Mâcon (dep. de la Saône-et-Loire)		97%	99%	
83	03	LE BEAUSSET	97%	96%
83	06	CALLAS	98%	98%
83	07	COLLOBRIÉRES	97%	86%
83	80	COMPS-SUR-ARTUBY	99%	94%
83	10	CUERS	98%	99%
83	11	DRAGUIGNAN	98%	95%
83	12	FAYENCE	97%	93%
83	13	FRÉJUS	96%	97% 97%
83	14		GRIMAUD 95%	
83	16	LORGUES	96%	92%
83	17	LE LUC	99%	97%
83	18	OLLIOULES	99%	93%
83	22	SAINT-TROPEZ	98%	99%
83	23	SALERNES	99%	97%
83	25	SOLLIÉS-PONT	100%	99%
83	36	LA CRAU	99%	98%
83	37	LE MUY	96%	97%
83	38	SAINT-MANDRIER-SUR-MER	98%	100%
83	39	SAINT-RAPHAËL	100%	97%
83	40	SIX-FOURS-LES-PLAGES	96%	100%
83	41	LA VALETTE-DU-VAR	91%	99%
83	42	LA GARDE	94%	100%
83	97	HYERES	100%	99%
83			98%	100%
83	99	TOULON	99%	99%
	-	ne sur les arrondissements de ignan et Toulon (dep. Du Var)	98%	97%

Average on the districts of Draguignan and Toulon (Du Var département)

## Decision no. 2008-0288 dated 11 March 2008

# of Autorité de régulation des communications électroniques and des postes establishing the coverage survey perimeter to be used by mobile operators in 2008

Autorité de régulation des communications électroniques and des postes,

In view of the Posts and Electronic Communications Code, and articles L. 32-1 and L. 42-1 in particular;

In view of ARCEP Decision no. 2006-0140 amended dated 31 January 2006 authorising Société Française du Radiotéléphone to use the frequencies in the 900 MHz and 1800 MHz bands to establish and operate a public wireless network;

In view of ARCEP Decision no. 2006-0239 amended dated 14 February 2006 authorising Orange France to use the frequencies in the 900 MHz and 1800 MHz bands to establish and operate a public wireless network;

In view of ARCEP Decision no. 2007-0178 dated 20 February 2007 stipulating the means for publishing coverage information and establishing the coverage survey protocol for mobile networks;

In view of ARCEP Decision no. 2007-0230 dated 13 March 2007 establishing the perimeter for the coverage surveys to be respected by the mobile operators for 2007;

In view of ARCEP Decision no. 2007-1114 dated 4 December 2007 establishing the conditions for renewing the frequency usage of Bouygues Telecom in the 900 and 1800 MHz;

In view of the letter dated 15 February 2008 from Orange France;

In view of the e-mail dated 27 December 2008 from Société Française du Radiotéléphone;

Following deliberations on 11 March 2008

#### On the regulatory framework

Mobile coverage transparency obligations were introduced in the authorisations issued to Orange France and Société Française du Radiotéléphone in 2006. They are also planned for the renewal conditions for Bouygues Telecom. Under section 1.4.1 of Appendix 2 of these decisions, each "operator is required to publish geographic coverage information at a sufficiently fine level to take account of geographic and demographic diversities, on an annual basis and by 31 December at the latest. The means of publishing this information are defined by ARCEP jointly with the operators in question. This information is obtained using a method defined by ARCEP jointly with the operators using on-site surveys which make it possible to appreciate the operator's geographic coverage at the canton level, especially in village centres and along roadways. The operator is responsible for performing these measurements on its network. The methodology and annual geographic perimeter of these on-site surveys are defined by ARCEP jointly with the operator. The complete results of the surveys must be submitted to ARCEP."

ARCEP defined these measures in its Decision no. 2007-0178 dated 20 February 2007. This decision states that, before 15<sup>th</sup> March of each year, ARCEP chooses the list of cantons on which the operators must conduct on-site coverage surveys during the year, up to a total of 380 cantons. The operators

must conduct these surveys before 31<sup>st</sup> October of the same year, according to a protocol defined in Decision no. 2007-0178. It also states that when the results of a survey on a canton are inconsistent with the map published, the canton must be surveyed again the following year.

ARCEP Decision no. 2007-0230 established the survey perimeter for the year 2007: Orange France and Société Française du Radiotéléphone surveyed 242 cantons, grouped in districts in 11 different regions. Since the survey showed insufficient consistency on a number of cantons, these measurements must be redone in 2008.

Therefore, this decision defines the cantons which must be surveyed under Decision no. 2007-0178 for 2008.

#### **Decides:**

**Article 1** - The list of cantons which must be surveyed before 31<sup>st</sup> October 2008 is established in Appendix 1 of this decision. In accordance with Article 2 of abovementioned Decision no. 2007-0178, the operators submit their results of the corresponding surveys to ARCEP before 15 December 2008.

**Article 2 -** The list of cantons which must be surveyed once again under the third paragraph of Article 2 of Decision no. 2007-0178 is defined in Appendix 2 of this decision for Orange France, and in Appendix 3 of this decision for Société Française du Radiotéléphone.

**Article 3** - The Director of the Operators and Regulation of Scarce Resources Division at ARCEP is responsible for executing this decision, which will be published in the *Journal Officiel* of the French Republic accompanied by its appendices.

Done at Paris, on 11 March 2008.

The Chairman

Paul Champsaur

# List of cantons to be surveyed in 2008 (Appendix 1 of Decision no. 2008-0288)

Département Canton Name

Département         Canton         Nom           2         2         Aubenton           2         3         Bohain-en-Vermandois           2         5         La Capelle           2         6         Le Catelet           2         16         Guise           2         17         Hirson           2         20         Moÿ-de-l'Aisne           2         20         Moÿ-de-l'Aisne           2         23         Le Nouvion-en-Thiérache           2         23         Le Nouvion-en-Thiérache           2         23         Le Nouvion-en-Thiérache           2         23         Le Nouvion-en-Thiérache           2         25         Ribemont           2         27         Sains-Eichaumont           2         29         Saint-Simon           2         33         Vermand           2         23         A Vervins           2         37         Wassigny           2         39         Saint-Quentin-Nord           2         40         Saint-Quentin-Sud           2         39         Saint-Quentin-Sud           2         98         Saint-Que	Departement			
2   3   Bohain-en-Vermandois   2   5   La Capelle   2   6   Le Catelet   2   16   Guise   2   17   Hirson   2   20   Moÿ-de-l'Aisne   2   23   Le Nouvion-en-Thiérache   2   25   Ribemont   2   27   Sains-Richaumont   2   29   Saint-Simon   2   33   Vermand   2   34   Vervins   2   37   Wassigny   2   39   Saint-Quentin-Nord   2   40   Saint-Quentin-Sud   2   98   Saint-Quentin   34   5   Blangy-le-Château   14   6   Bourguébus   14   7   Bretteville-sur-Laize   14   8   Caen 1er Canton   14   9   Caen 2e Canton   14   10   Cambremer   14   13   Creully   14   14   Douvres-la-Délivrande   14   15   Dozulé   14   16   Évrecy   14   17   Falaise-Nord   14   18   Falaise-Sud   14   19   Honfleur   14   15   Dozulé   14   16   Évrecy   14   17   Falaise-Nord   14   18   Falaise-Sud   14   19   Honfleur   14   21   Lisieux 1er Canton   14   22   Lisieux 2e Canton   14   22   Lisieux 2e Canton   14   23   Livarot   14   24   Mézidon-Canon   14   25   Morteaux-Couliboeuf   14   26   Orbec   14   27   Pont-l'Évêque   14   29   Saint-Pierre-sur-Dives   14   31   Thury-Harcourt   14   32   Tilly-sur-Seulles   14   34   Troam   14   35   Trouville-sur-Mer   14   37   Villers-Bocage   14   40   Caen 4e Canton   14   43   Caen 7e Canton   14   44   Caen 8e Canton   14   46   Caen 10e Canton   14   47   Cabourg   14   48   Ouistreham   14   49   Lisieux 3e Canton   15   Cabourg   15   Cabourg   15   Cabourg   16   Caren   17   Cabourg   17   Cabourg   18   Caren   18   Car				
2         5         La Capelle           2         6         Le Catelet           2         16         Guise           2         17         Hirson           2         20         Moÿ-de-l'Aisne           2         23         Le Nouvion-en-Thiérache           2         23         Le Nouvion-en-Thiérache           2         23         Le Nouvion-en-Thiérache           2         23         Le Nouvion-en-Thiérache           2         25         Ribemont           2         27         Sains-Richaumont           2         29         Saint-Simon           2         33         Vermand           2         34         Vervins           2         34         Vervins           2         33         Saint-Quentin-Nord           2         40         Saint-Quentin-Sud           2         40         Saint-Quentin-Sud           2         98         Saint-Quentin-Sud           2         98         Saint-Quentin-Sud           2         98         Saint-Quentin-Sud           2         98         Saint-Quentin-Sud           4         6         Bo				
2         6         Le Catelet           2         16         Guise           2         17         Hirson           2         20         Moÿ-de-l'Aisne           2         20         Ribemont           2         23         Le Nouvion-en-Thiérache           2         23         Le Nouvion-en-Thiérache           2         23         Le Nouvion-en-Thiérache           2         24         Saint-Richaumont           2         29         Saint-Simon           2         33         Vermand           2         34         Vervins           2         34         Vervins           2         37         Wassigny           2         39         Saint-Quentin-Nord           2         40         Saint-Quentin-Sud           2         39         Saint-Quentin-Sud           2         40         Saint-Quentin-Sud           2         39         Saint-Quentin-Sud           2         98         Saint-Quentin-Sud           2         98         Saint-Quentin-Sud           2         98         Saint-Quentin-Sud           4         7         Brettevil				
2         16         Guise           2         17         Hirson           2         20         Moÿ-de-l'Ais ne           2         20         Moÿ-de-l'Ais ne           2         20         Moÿ-de-l'Ais ne           2         23         Le Nouvion-en-Thiérache           2         25         Ribemont           2         27         Sains-Richaumont           2         29         Saint-Simon           2         34         Verwins           2         34         Verwins           2         34         Verwins           2         37         Wassigny           2         39         Saint-Quentin-Nord           2         40         Saint-Quentin-Sud           2         98         Saint-Quentin-Sud           2         98         Saint-Quentin-Sud           2         98         Saint-Quentin-Nord           2         40         Saint-Quentin-Sud           2         98         Saint-Quentin-Nord           2         40         Saint-Puentin-Sud           2         98         Saint-Puentin-Sud           2         98         Saint-Puentin			·	
2         17         Hirson           2         20         Moÿ-de-l'Aisne           2         23         Le Nouvion-en-Thiérache           2         25         Ribemont           2         27         Sains-Richaumont           2         29         Saint-Simon           2         33         Vermand           2         34         Vervins           2         37         Wassigny           2         39         Saint-Quentin-Nord           2         39         Saint-Quentin           2         40         Saint-Quentin           2         98         Saint-Quentin           14         5         Blangy-le-Château           14         6         Bourguébus           14         7         Bretteville-sur-Laize           14         8         Caen 1er Canton           14         9         Caen 2e Canton           14         9         Caen 2e Canton           14         10         Cambremer           14         11         Dozulé           14         14         Dozulé           14         15         Dozulé	2			
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2         98         Saint-Quentin           14         5         Blangy-le-Château           14         6         Bourguébus           14         7         Bretteville-sur-Laize           14         8         Caen 1er Canton           14         8         Caen 1er Canton           14         9         Caen 2e Canton           14         10         Cambremer           14         13         Creully           14         14         Dozulé           14         15         Dozulé           14         16         Évrecy           14         16         Évrecy           14         17         Falaise-Nord           14         18         Falaise-Nord           14         19         Honfleur           14         19         Honfleur           14         21         Lisieux 1er Canton           14         22         Lisieux 2e Canton           14         23         Livarot           14         24         Mézidon-Canon           14         25         Morteaux-Couliboeuf           14         26         Orbec	2			
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14         6         Bourguébus           14         7         Bretteville-sur-Laize           14         8         Caen 1er Canton           14         9         Caen 2e Canton           14         10         Cambremer           14         13         Creully           14         14         Douvres-la-Délivrande           14         15         Dozulé           14         16         Évrecy           14         16         Évrecy           14         17         Falaise-Nord           14         18         Falaise-Nord           14         19         Honfleur           14         19         Honfleur           14         21         Lisieux 1er Canton           14         22         Lisieux 2e Canton           14         23         Livarot           14         24         Mézidon-Canon           14         24         Mézidon-Canon           14         25         Morteaux-Couliboeuf           14         26         Orbec           14         27         Pont-l'Évêque           14         31         Thury-Harcourt				
14         7         Bretteville-sur-Laize           14         8         Caen 1er Canton           14         9         Caen 2e Canton           14         10         Cambremer           14         13         Creully           14         14         Douvres-la-Délivrande           14         15         Dozulé           14         16         Évrecy           14         16         Évrecy           14         18         Falaise-Nord           14         18         Falaise-Sud           14         19         Honfleur           14         19         Honfleur           14         21         Lisieux 1er Canton           14         22         Lisieux 2e Canton           14         23         Livarot           14         24         Mézidon-Canon           14         24         Mézidon-Canon           14         25         Morteaux-Couliboeuf           14         26         Orbec           14         26         Orbec           14         27         Pont-l'Évêque           14         31         Thury-Harcourt				
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14         13         Creully           14         14         Douvres-la-Délivrande           14         15         Dozulé           14         16         Évrecy           14         17         Falaise-Nord           14         18         Falaise-Sud           14         19         Honfleur           14         21         Lisieux 1er Canton           14         21         Lisieux 2e Canton           14         22         Lisieux 2e Canton           14         23         Livarot           14         24         Mézidon-Canon           14         24         Mézidon-Canon           14         25         Morteaux-Couliboeuf           14         26         Orbec           14         27         Pont-l'Évêque           14         29         Saint-Pierre-sur-Dives           14         31         Thury-Harcourt           14         32         Tilly-sur-Seulles           14         34         Troam           14         35         Trouville-sur-Mer           14         43         Caen 4e Canton           14         43         Caen 7e				
14         14         Douvres-la-Délivrande           14         15         Dozulé           14         16         Évrecy           14         17         Falaise-Nord           14         18         Falaise-Sud           14         19         Honfleur           14         21         Lisieux 1er Canton           14         21         Lisieux 2e Canton           14         22         Lisieux 2e Canton           14         23         Livarot           14         24         Mézidon-Canon           14         25         Morteaux-Couliboeuf           14         26         Orbec           14         26         Orbec           14         27         Pont-l'Évêque           14         29         Saint-Pierre-sur-Dives           14         31         Thury-Harcourt           14         32         Tilly-sur-Seulles           14         34         Troam           14         35         Trouville-sur-Mer           14         37         Villers-Bocage           14         40         Caen 4e Canton           14         43         Caen 7e				
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14         18         Falaise-Sud           14         19         Honfleur           14         21         Lisieux 1er Canton           14         22         Lisieux 2e Canton           14         23         Livarot           14         24         Mézidon-Canon           14         25         Morteaux-Couliboeuf           14         26         Orbec           14         27         Pont-l'Évêque           14         29         Saint-Pierre-sur-Dives           14         31         Thury-Harcourt           14         32         Tilly-sur-Seulles           14         34         Troam           14         35         Trouville-sur-Mer           14         37         Villers-Bocage           14         40         Caen 4e Canton           14         43         Caen 7e Canton           14         44         Caen 8e Canton           14         46         Caen 10e Canton           14         47         Cabourg           14         48         Ouistreham           14         49         Lisieux 3e Canton				
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14         25         Morteaux-Couliboeuf           14         26         Orbec           14         27         Pont-l'Évêque           14         29         Saint-Pierre-sur-Dives           14         31         Thury-Harcourt           14         32         Tilly-sur-Seulles           14         34         Troam           14         35         Trouville-sur-Mer           14         37         Villers-Bocage           14         40         Caen 4e Canton           14         43         Caen 7e Canton           14         44         Caen 8e Canton           14         46         Caen 10e Canton           14         47         Cabourg           14         48         Ouistreham           14         49         Lisieux 3e Canton				
14         26         Orbec           14         27         Pont-l'Évêque           14         29         Saint-Pierre-sur-Dives           14         31         Thury-Harcourt           14         32         Tilly-sur-Seulles           14         34         Troam           14         35         Trouville-sur-Mer           14         37         Villers-Bocage           14         40         Caen 4e Canton           14         43         Caen 7e Canton           14         44         Caen 8e Canton           14         46         Caen 10e Canton           14         47         Cabourg           14         48         Ouistreham           14         49         Lisieux 3e Canton				
14         27         Pont-l'Évêque           14         29         Saint-Pierre-sur-Dives           14         31         Thury-Harcourt           14         32         Tilly-sur-Seulles           14         34         Troam           14         35         Trouville-sur-Mer           14         37         Villers-Bocage           14         40         Caen 4e Canton           14         43         Caen 7e Canton           14         44         Caen 8e Canton           14         46         Caen 10e Canton           14         47         Cabourg           14         48         Ouistreham           14         49         Lisieux 3e Canton				
14         29         Saint-Pierre-sur-Dives           14         31         Thury-Harcourt           14         32         Tilly-sur-Seulles           14         34         Troarm           14         35         Trouville-sur-Mer           14         37         Villers-Bocage           14         40         Caen 4e Canton           14         43         Caen 7e Canton           14         44         Caen 8e Canton           14         46         Caen 10e Canton           14         47         Cabourg           14         48         Ouistreham           14         49         Lisieux 3e Canton				
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14     32     Tilly-sur-Seulles       14     34     Troam       14     35     Trouville-sur-Mer       14     37     Villers-Bocage       14     40     Caen 4e Canton       14     43     Caen 7e Canton       14     44     Caen 8e Canton       14     46     Caen 10e Canton       14     47     Cabourg       14     48     Ouistreham       14     49     Lisieux 3e Canton				
14     34     Troarm       14     35     Trouville-sur-Mer       14     37     Villers-Bocage       14     40     Caen 4e Canton       14     43     Caen 7e Canton       14     44     Caen 8e Canton       14     46     Caen 10e Canton       14     47     Cabourg       14     48     Ouistreham       14     49     Lisieux 3e Canton				
14         35         Trouville-sur-Mer           14         37         Villers-Bocage           14         40         Caen 4e Canton           14         43         Caen 7e Canton           14         44         Caen 8e Canton           14         46         Caen 10e Canton           14         47         Cabourg           14         48         Ouistreham           14         49         Lisieux 3e Canton				
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14     43     Caen 7e Canton       14     44     Caen 8e Canton       14     46     Caen 10e Canton       14     47     Cabourg       14     48     Ouistreham       14     49     Lisieux 3e Canton				
14     44     Caen 8e Canton       14     46     Caen 10e Canton       14     47     Cabourg       14     48     Ouistreham       14     49     Lisieux 3e Canton				
14     46     Caen 10e Canton       14     47     Cabourg       14     48     Ouistreham       14     49     Lisieux 3e Canton				
14         47         Cabourg           14         48         Ouistreham           14         49         Lisieux 3e Canton				
14 48 Ouistreham 14 49 Lisieux 3e Canton				
14 49 Lisieux 3e Canton			ū	
14 93 Hérouville-Saint-Clair				
	14	93	Hérouville-Saint-Clair	

Département	Canton	Name
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Département	Canton	Nom	
14	97	Caen	
14	98	Falaise	
14	99	Lisieux	
19	1	Argentat	
19	2	Ayen	
19	3	Beaulieu-sur-Dordogne	
19	4	Beynat	
19	8	Corrèze	
19	9	Donzenac	
19	10	Égletons	
19	12	Juillac	
19	13	Lapleau	
19	14	Larche	
19	15	Lubersac	
19	16	Mercoeur	
19	18	Meyssac	
19	20	La Roche-Canillac	
19	21	Saint-Privat	
19	22	Seilhac	
19	24	Treignac	
19	28	Uzerche	
19	29	Vigeois	
19	30	Brive-la-Gaillarde-Sud-Est	
19	33	Brive-la-Gaillarde-Sud-Ouest	
19	34	Malemort-sur-Corrèze	
19	35	Tulle-Campagne-Nord	
19	36	Tulle-Campagne-Sud	
19	98	Brive la Gaillarde	
19	99	Tulle	
2B	5	Belgodère	
2B	10	Niolu-Omes sa	
2B	11	Calenzana	
2B	12	Calvi	
2B	17	Corte	
2B	19	Ghisoni	
2B	20	L'Île-Rousse	
2B	24	Moïta-Verde	
2B	25	Castifao-Morosaglia	
2B	37	Orezza-Alesani	
2B	41	Prunelli-di-Fiumorbo	
2B	54	Bustanico	
2B	58	Venaco	
2B	60	Vezzani	
30	2	Alès-Nord-Est	
30	3	Alès-Ouest	
30	4	Alzon	
30	5	Anduze	
30	8	Barjac	
30	10	Bess èges	
30	11	Génolhac	
30	12	La Grand-Combe	

Département Canton Name Département Canton Name

Département Canton Name Département Canton Name					
Département	Canton	Nom	Département	Canton	Nom
30	13	Lasalle	40	27	Tartas-Ouest
30	14	Lédignan	40	29	Dax-Sud
30	21	Quissac	40	97	Dax
30	24	Saint-Ambroix	40	99	Tartas
30	25	Saint-André-de-Valborgne	44	1	Aigrefeuille-sur-Maine
30	28	Saint-Hippolyte-du-Fort	44	4	Bouaye
30	29	Saint-Jean-du-Gard	44	5	Bourgneuf-en-Retz
30	31	Sauve	44	6	Carquefou
30	33	Sumène	44	7	La Chapelle-sur-Erdre
30	34	Trèves	44	9	Clisson
30	36	Valleraugue	44	10	Le Croisic
30	38	Vézénobres	44	13	Guérande
30	39	Le Vigan	44	14	Herbignac
30	41	Alès-Sud-Est	44	15	Legé
30	98	Ales	44	17	Le Loroux-Bottereau
39	1	Arbois	44	18	Machecoul
39	2	Arinthod	44	29	Paimboeuf
39	3	Beaufort	44	30	Le Pellerin
39	4	Bletterans	44	31	Pontchâteau
39	5	Les Bouchoux	44	32	Pornic
39	6	Champagnole	44	35	Saint-Étienne-de-Montluc
39	10	Clairvaux-les-Lacs	44	36	Saint-Gildas-des-Bois
39	11	Conliège	44	41	Saint-Père-en-Retz
39	15	Lons-le-Saunier-Nord	44	42	Saint-Philbert-de-Grand-Lieu
39	16	Moirans-en-Montagne	44	43	Savenay
39	19	Morez	44	44	Vallet
39	20	Nozeroy	44	46	Vertou
39	21	Orgelet	44	47	Montoir-de-Bretagne
39	22	Les Planches-en-Montagne	44	50	Nantes 10e Canton
39	23	Poligny	44	51	Rezé
39	25	Saint-Amour	44	54	Orvault
39	26	Saint-Claude	44	55	Saint-Herblain-Ouest-Indre
39	27	Saint-Julien	44	57	La Baule-Escoublac
39	28	Saint-Laurent-en-Grandvaux	44	59	Vertou-Vignoble
39	29	Salins-les-Bains	44	96	Saint Herblain
39	30	Sellières	44	97	Rezé
39	31	Vill ers -Farlay	44	98	Saint Nazaire
39	32	Voiteur	44	99	Nantes
39	34	Lons-le-Saunier-Sud	73	1	Aiguebelle
39	97	Lons-le-Saunier	73	2	Aime
40	2	Amou	73	5	Albertville-Nord
40	3	Castets	73	6	Beaufort
40	4	Dax-Nord	73	7	Bourg-Saint-Maurice
40	12	Montfort-en-Chalosse	73	8	Bozel
40	14	Mugron	73	11	La Chambre
40	16	Peyrehorade	73	15	Grés y-sur-Isère
40	18	Pouillon	73	16	Lanslebourg-Mont-Cenis
40	21	Saint-Martin-de-Seignanx	73	17	Modane
40	23	Saint-Vincent-de-Tyrosse	73	20	Moûtiers
40	25	Soustons	73	25	Saint-Jean-de-Maurienne
40	26	Tartas-Est	73	26	Saint-Michel-de-Maurienne

#### Département Canton Name

Cantons to be surveyed again by Orange France (Appendix 2 of Decision no. 2008-0288):

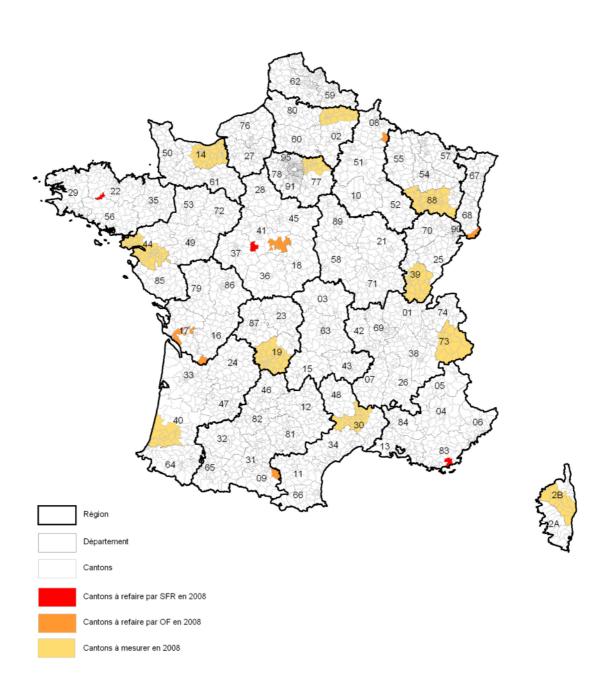
Cantons to be surveyed again by SFR (Appendix 3 of Decision no. 2008-0288):

# Cantons à auditer à nouveau pour Orange France (annexe 2 de la décision n° 2008-0288):

Département	Canton	Nom
8	3	Buzancy
9	10	Mirepoix
17	5	Burie
17	8	Cozes
17	18	Montguyon
17	35	Saintes-Ouest
17	36	Saujon
41	17	Romorantin-Lanthenay-Nord
41	20	Salbris
41	29	Romorantin-Lanthenay-Sud
68	7	Ferrette
68	11	Huningue

### Cantons à auditer à nouveau pour SFR (annexe 3 de la décision n° 2008-0288):

Département	Canton	Nom
22	15	Gouarec
41	13	Montrichard
41	17	Romorantin-Lanthenay-Nord
83	7	Collobrières



Region

Département

Cantons

Cantons to be resurveyed by SFR in 2008

Cantons to be resurveyed by OF in 2008

Cantons to be surveyed in 2008

#### Evaluation protocol of mobile network coverage in a canton

#### (Excerpt from Appendix 2 of Decision no. 2007-0178 dated 20 February 2007)

The purpose of this protocol is to evaluate the coverage of an operator's mobile network in a canton through an on-site campaign, and to measure the validity of the coverage map which the operator publishes for this canton. Coverage is evaluated as a user's ability to gain access to the network and to maintain a call for at least one minute.

This protocol is identical to the one ARCEP drafted in 2001 in cooperation with the operators, and provided to municipalities to evaluate mobile network coverage as part of the "white area" programme.

Coverage evaluation is done through two on-site measurements, covering accessibility (defined as a user's ability to access the network, that is, to obtain a ringing signal on a single attempt) and the field level. Once this data has been obtained, the coverage as defined above can be obtained using an on-site calibration.

#### 1. Measuring the validity of the map published by the operator

An "area reputed to be covered" is an area which, at the survey start date, is said to be covered according to the map the operator has published in accordance with Appendix 1. Similarly, an area not said to be covered is called an "area reputed not to be covered".

To measure the validity of this map, the area reputed to be covered is tested at the canton level.

The map validity for a canton is measured by calculating the coverage rate within the area reputed to be covered in the canton, as defined in section 3.3.

It is important to note that the accessibility rate is by definition an upper bound of the coverage rate. These two concepts reflect two aspects of coverage. Coverage measured using the second concept is closer to customers' reality, whereas accessibility corresponds to a minimalist perception of simple coverage measured on the ground and which is the first step in measuring coverage.

The two stages of the protocol are presented below:

- measurement of accessibility
- evaluation of coverage, based on accessibility and field measurement

In practice, an insufficient accessibility rate in the area reputed to be covered of a canton could reveal an error in an operator's coverage map. This rate, which is defined in section 2.2, can be obtained by applying only section 2 of this protocol.

On the other hand, to show that the coverage map reflects reality in the canton, the protocol must be completed by also applying section 0 and by showing that the coverage rate in the area reputed to be covered of the canton is satisfactory. The surveys the operators perform each year must include both parts of the protocol.

#### 2. Accessibility

#### 2.1. Measurement protocol

#### 2.1.1. Definition of measurement

A measurement involves trying to make a real call and seeing if a ringing signal is heard on the mobile phone. However, the call is not answered and the connection not made.

If the call is not put through within 20 seconds of initiation of the connection attempt, the call is disconnected and considered a failure. If a busy tone is heard, the measurement is not taken into account. If the ringing signal is heard within 20 seconds, the accessibility measurement is successful.

#### 2.1.2. Conducting measurements

A five-second interval separates the release of one call and the launch of the successive network accessibility attempt. Moreover, two successive attempts must be separated by at least 15 seconds.

Accessibility measurements are performed on board a moving vehicle travelling at a normal speed for the roads being taken. The GPS coordinates must be acquired for each measurement point.

Although taken on board a vehicle, the measurements should take account of an external situation. Therefore, the measurement situation should be conducted and adjusted accordingly.

The calibration must also remain stable and no bias be introduced through the use of any specific equipment throughout the measurement campaign.

Calls are made from a mobile phone to a fixed phone, and may be made on any day of the week from 8.00 AM to 12.00 PM and from 2.00 to 6.00 PM.

Road safety imperatives must be taken into consideration.

#### 2.1.3. Measurement equipment

The mobile telephone chosen must be representative of the use of mobile services as much as possible.

#### 2.1.4. Measurement sampling

Within the canton being surveyed, the route on which the accessibility measurements are taken must pass by each of the town halls of each of the towns in this canton. There are no restrictions regarding the roads which may be taken in this trip; they may be national, *départemental* or *communal*. A minimal distance of 150 km per canton must be travelled. The distance may be less if the canton does not have 150 km of roadways. The route chosen in each canton must constitute a representative sample of all roadways in this canton (type and geographic breakdown of the roadways).

A minimum of 500 accessibility measurements must be taken per canton. Depending on the canton in question, the number of accessibility measurements may be increased as long as the statistical precision conforms to the requirements of section 2.2. These samples must be well distributed throughout the canton. To calculate the accessibility rate in the area reputed to be covered, the samples must also be well distributed throughout the area reputed to be covered by the operator.

#### 2.2. Results

The survey results are composed of all the data mentioned below:

- **The canton accessibility rate**, equal to the percentage of measurements for which there was accessibility to the network. The statistical precision will be calculated and be an integral part of the results. Precision must be within 3%.
- A computerised spreadsheet file for all the accessibility measurements done in a mobility situation. It contains:
  - o in column A: the measurement date
  - o in column B: the measurement time
  - o in column C: the X coordinate of the measurement in extended Lambert II
  - o in column D: the Y coordinate of the measurement in extended Lambert II
  - o in column E: an identifier of the mobile phone (IMSI, IMEI, etc.)
  - o in column F: 1 if the point is in the area reputed to be covered, otherwise 0

o in column G: 1 if there was network accessibility, otherwise 0

#### - A map of the canton showing:

- the accessibility measurements performed, with green points if there was accessibility, or red points if there was not
- o the area reputed to be covered by the operator, as a coloured area
- The accessibility rate in the area reputed to be covered. This rate is calculated using only the measurements taken in the area of the canton reputed to be covered by the operator. The statistical precision will be calculated and be an integral part of the results. This precision must be within 3%. In particular, as indicated in section 2.1.4, the samples in the area reputed to be covered by the operator must be sufficiently numerous and sufficiently spread out for statistical precision to be acceptable.
- The accessibility rate in the area reputed not to be covered. This rate is calculated using only the measurements taken in the area of the canton reputed to be not covered by the operator. The statistical precision will be calculated and be an integral part of the results.

#### 3. Coverage

In addition to the accessibility measurement, the protocol may include coverage measurements, as indicated in section 1.

#### 3.1. Measurement protocol

#### 3.1.1. Definition of the measurement

In addition to the network accessibility measurements, the measurement protocol is based on field level measurements and on the establishment of real telephone calls.

These measurements may be combined in two sections:

- a "measurement" part composed of field level measurements done following each accessibility measurement, and
- a "calibration" part composed of real telephone calls and which makes it possible to create a statistical relation between the field level received by the mobile phone on the ground and the possibility of truly maintaining a telephone call for one minute knowing that the ringing signal was obtained

#### a) Field level measurements

These involve measuring on the beacon channel (the BCCH transmission channel) the RxLev field level received by the mobile. For each measurement, the field level chosen is the one corresponding to the most powerful beacon channel.

Because mobile phones can use another network to route emergency calls when they are off network, it is necessary to ensure that the field level measurements done for each network are actually for this network

The RxLev\_Access\_Min parameter, available after the BCCH channel is decoded, is also recorded at each measurement.

#### b) Making real calls

Calls are made regularly in order to establish a relation between the field level on the beacon channel and a user's possibility of establishing a call.

A call is considered successful if there was accessibility, that is, if the other telephone rang within 20 seconds, and if the call was established and maintained for one minute.

The field level (RxLev) is measured when the call is made. The RxLev\_Access\_Min parameter, available after the BCCH channel is decoded, is also recorded for each measurement.

#### 3.1.2. Performing measurements

Although taken on board a vehicle, the measurements should take account of an external situation. Therefore the measurement situation should be conducted and adjusted accordingly.

The calibration must also remain stable and no bias be introduced through the use of any specific equipment throughout the measurement campaign.

#### 3.1.3. Measurement equipment

It is recommended that trace mobiles be used. The mobile telephone chosen must be as representative as possible of the use of mobile services.

#### 3.1.4. Measurement sampling

The field level measurements are done at the same frequency as the network accessibility measurements. One field level measurement is taken immediately after each network access attempt. This means that the field level measurements are taken on board the moving vehicle.

Depending on the canton in question, the number of accessibility measurements may be increased as long as the statistical precision conforms to the requirements of section 3.3.

The real telephone calls are also established on board the measurement vehicle, but in a static situation. These calls may be made at different points on the route mentioned above.

#### 3.2. Data processing

#### 3.2.1. Calibration relation

A curve showing the correspondence between the field level and the probability of making a successful call (knowing that there was accessibility to the network) will be drawn using one-minute-long calls. The relation constructed is designated in this protocol as the "calibration relation".

For the same operator, if several cantons were surveyed in the same *département*, the measurements from more than one canton in the same *département* can be combined in creating this curve.

In establishing this curve, only real one-minute calls made in the *département* meeting the following two conditions are considered:

- C1 = RxLev RxLev Access Min > 0
- accessibility was successful, that is, a ringing signal was obtained

Calls not meeting these conditions are not used in the survey.

Calls meeting these conditions are grouped by field level (for example by brackets of one dB). For each field level, N1 is the number of calls meeting these conditions. Of these N1 calls, N2 is the number of calls which were effectively maintained for one minute without being cut off. For each field level, we obtain the rate of calls which were established and maintained for one minute knowing that there was accessibility: N2 / N1. These rates, taken for each field level, give the calibration curve.

Special care must be taken for the precision and the reliability of this curve. The number of measurements necessary to create it and the distribution of these measurements according to the

different field level values will be chosen to ensure that the impact on the coverage rate calculated for the canton based on this curve and accessibility and field level measurements are within 3%.

#### 3.2.2. Calculating the coverage rate

For each measurement point characterised by an accessibility measurement and a field level measurement, the probability of a successful call is equal to  $Pr = Pa \times Pb$  where:

- Pa is equal to 1 if there was accessibility to the network, to 0 otherwise
- *Pb* is equal to the probability for an established call to be maintained for one minute. This probability *Pb* is deduced from the field level measured at the point in question using the calibration relation described in section 3.2.1, which establishes a correspondence between the field level and the probability of making a successful call knowing that there was accessibility to the network.

The coverage rate is then calculated by averaging the probabilities of success Pr of one call over all the measurement points corresponding to the area in question.

#### 3.3 Results

In addition to the results described in section 2.2, the survey results include all the data listed below:

- The coverage rate of the canton. The statistical precision will be calculated and is an integral part of the results. This precision must be within 3%
- A graph showing the calibration relation
- A computerised spreadsheet file for all the accessibility measurements done in a mobility situation. This file is obtained by adding the following information to the file described in section 2.2:
  - o in column H: RxLev
  - o in column I: RxLev Access Min.
- A second file for all the measurements used to establish the calibration relation, and which meet the two conditions defined in section 3.2.1. It contains:
  - o in column A: the measurement date
  - o in column B: the measurement time
  - o in column C: the X coordinate of the measurement in extended Lambert II
  - o in column D: the Y coordinate of the measurement in extended Lambert II
  - o in column E: an identifier of the mobile (IMSI, IMEI, etc.)
  - o in column F: 1 if the point is in area reputed to be covered, otherwise 0
  - o in column G: 1 for a call established and maintained for one minute, otherwise 0
  - o in column H: RxLev
  - o in column I: RxLev\_Access\_Min
- The coverage rate in the area reputed to be covered. This rate is calculated using only the field measurements taken in the area of the canton reputed to be covered by the operator. The statistical precision will be calculated and is an integral part of the results. This precision must be within 3%. In particular, as indicated in section 2.1.4, the samples in the area reputed to be covered by the operator must be sufficiently numerous and sufficiently spread out for statistical precision to be acceptable.
- The coverage rate in the area reputed not to be covered. This rate is calculated using only the field measurements taken in the area of the canton reputed to be not covered by the operator. The statistical precision will be calculated and is an integral part of the results.