



**WIRELESS TELEGRAPHY ACT, 1926 WIRELESS TELEGRAPHY
(GSM MOBILE TELEPHONY LICENCE) (AMENDMENT)
REGULATIONS, 2003**

Licence under section 5 of the Wireless Telegraphy Act, 1926, to keep and have possession of apparatus for wireless telegraphy for the purpose of the provision of a GSM mobile telephony service.

The Commission for Communications Regulation, in exercise of the powers conferred on it by section 5 of the Wireless Telegraphy Act, 1926 (No. 45 of 1926) and section 4 of the Telecommunications (Miscellaneous Provisions) Act, 1996 (No. 34 of 1996) and section 9(1) of the Communications Regulation Act 2002 (No. 20 of 2002) hereby grants to **Telefonica Ireland Ltd, of 28/29 Sir John Rogerson's Quay, Dublin 2.** (the 'Licensee') authorisation to keep, have possession of, install, maintain, work and use apparatus as specified in the Schedule 2 of this licence, in the places specified in Schedule 1 of this Renewed licence and subject to the terms and conditions as set out in the Wireless Telegraphy (GSM Mobile Telephony licence)(Amendment) Regulations, 2003 (S.I. No. 339 of 2003), including, but not limited to, the following;

1. The Licensee shall ensure that it complies with the geographical and technical conditions contained within Schedules 1 to 3 to this licence.
2. The Licensee shall ensure that it complies with all the commitments contained within Schedule 4 of the licence which were made by the Licensee in the course of a comparative evaluation selection procedure, prior to the granting of the Original Licence.

This Licence is a renewal of the Original Licence, whose Licence commencement date is 1 January 2000. This Licence is for the use of GSM 1800 MHz channel assignments and shall come into operation on 1 January 2014 and, unless previously revoked, shall expire on 31 December 2014.

GIVEN under the official seal of the Commission for Communications Regulation, this
9th day of January, 2014.

For and on behalf of the Commission for Communications Regulation

Schedule 1
Places at which the Licensee is authorised by this Licence to keep
and have possession of the Apparatus

1800 MHz band

No.	Site I.D	Easting	Northing
1	86465	315851	232903
2	86470	260721	111774
3	86471	316576	236180
4	86472	316576	236180
5	86473	325355	254881
6	86475	211400	159300
7	86478	320644	242372
8	86481	322797	255503
9	86483	263800	115000
10	86484	303676	241182
11	86485	321284	238048
12	86486	319782	264223
13	86494	317150	242100
14	86495	318539	236269
15	86496	204332	241506
16	86497	316512	234598
17	86501	298364	237157
18	86502	321651	216499
19	86503	157518	157048
20	86506	248694	198875
21	86507	316395	231923
22	86508	316997	243168
23	86511	324919	173566
24	86512	204290	241432
25	86513	312836	240656
26	86514	251152	156301
27	86515	318177	232464
28	86519	316799	243271
29	86524	317847	233860
30	86535	316428	234280
31	86536	303660	227333
32	86537	318050	234500
33	86544	322950	240815
34	86546	304125	227817
35	86548	316530	230820

No.	Site I.D	Easting	Northing
36	86557	259577	111975
37	86558	318050	234500
38	86559	305210	227689
39	86561	316711	233249
40	86563	125826	318688
41	86569	315862	234088
42	86572	317822	234204
43	86576	315554	235534
44	86577	321113	240933
45	86589	307144	239576
46	86590	319253	237205
47	86595	302244	228601
48	86598	319452	226146
49	86599	315719	234867
50	86600	277545	213641
51	86602	317525	234798
52	86603	315349	235386
53	86605	311039	237164
54	86622	325185	239590
55	86625	318030	233070
56	86638	318030	233070
57	86642	309422	233966
58	86647	315521	240345
59	86651	315585	234061
60	86652	316615	233775
61	86663	319179	244718
62	86665	306684	238038
63	86681	318051	245401
64	86687	319404	230953
65	86690	133840	177474
66	86697	317281	234516
67	86698	306524	271054
68	86716	319064	230145
69	86720	313379	235075
70	86730	326399	218818
71	86732	324274	226899
72	86734	307236	234866
73	86746	167413	71859
74	86755	316522	231785
75	86757	313217	230331

No.	Site I.D	Easting	Northing
76	86759	313192	228866
77	86767	312289	273737
78	86770	321582	227919
79	86771	322980	242361
80	86772	317071	233213
81	86778	288671	266837
82	86779	309429	228590
83	86780	318767	226570
84	86798	167760	71640
85	86800	298480	224980
86	86813	220356	122599
87	86841	304628	235227
88	86856	315643	234579
89	86859	313852	232811
90	86860	315600	232000
91	86861	315229	233895
92	86863	317929	232399
93	86864	315739	235741
94	86865	316083	235283
95	86866	315360	234274
96	86869	317074	236135
97	86871	317027	234514
98	86872	314750	234150
99	86874	315275	234637
100	86875	315234	234757
101	86877	315882	234198
102	86878	315960	234316
103	86879	315853	233745
104	86881	316153	236638
105	86884	320160	235142
106	86887	318290	232155
107	86891	314091	235069
108	86894	167350	71400
109	86897	317259	236539
110	86898	166842	71788
111	86912	305978	309041
112	86922	316769	234556
113	86924	324029	225928
114	86925	310746	228992
115	86930	167194	71763

No.	Site I.D	Easting	Northing
116	86935	130014	225599
117	86943	307257	230398
118	86969	128465	224280
119	86971	305055	238056
120	86973	317656	230727
121	86974	323618	228962
122	86975	315224	226654
123	86976	257843	112353
124	86977	261932	110972
125	86978	167902	72190
126	86979	175981	71753
127	86991	323704	227788
128	87056	328520	237366
129	87062	315638	234132
130	87070	321995	223556
131	87079	314020	245160
132	87098	303476	230871
133	87120	320732	240179
134	87162	319890	228680
135	87163	325516	221911
136	87165	317908	233563
137	87168	314232	226834
138	87170	309064	231044
139	87171	309045	236027
140	87172	307685	232512
141	87173	307991	234801
142	87174	133694	177100
143	87176	133946	177746
144	87178	317799	243386
145	87180	310656	232814
146	87181	307807	227022
147	87182	316919	230659
148	87186	308967	237115
149	87187	326647	226759
150	87190	153294	163369
151	87191	317202	235799
152	87193	305569	228881
153	87194	312131	229860
154	87195	318498	240959
155	87198	306480	229946

No.	Site I.D	Easting	Northing
156	87200	315638	227935
157	87202	315563	239085
158	87205	303225	235075
159	87211	312441	229972
160	87213	314152	230179
161	87214	315540	231467
162	87215	322970	227060
163	87216	319210	224030
164	87217	317605	231577
165	87218	306211	233114
166	87219	312987	233730
167	87221	314259	232680
168	87222	323463	224925
169	87223	315731	233589
170	87224	316032	233901
171	87226	315905	233600
172	87227	320531	225400
173	87228	318310	231741
174	87229	314435	233386
175	87230	301000	236300
176	87231	315614	234297
177	87232	316227	235544
178	87233	312351	231207
179	87234	318055	232249
180	87235	300600	227500
181	87237	316452	234754
182	87239	309163	227652
183	87240	311420	231675
184	87241	315975	236142
185	87245	317020	247810
186	87246	324571	228211
187	87247	316195	234225
188	87248	318085	236733
189	87249	328538	239173
190	87250	308892	227502
191	87252	322599	243685
192	87254	315955	232571
193	87258	320796	240921
194	87259	316813	225642
195	87260	166627	66420

No.	Site I.D	Easting	Northing
196	87261	167478	72058
197	87263	315301	236675
198	87265	315720	234600
199	87266	315832	234509
200	87268	317101	232855
201	87270	316065	234475
202	87273	318737	247942
203	87275	316845	233005
204	87276	167701	72139
205	87277	314539	234622
206	87278	313640	234240
207	87279	317095	238245
208	87281	315570	235370
209	87284	317401	233490
210	87285	168500	71809
211	87286	316305	237235
212	87289	310252	237647
213	87290	321520	229483
214	87291	164900	70200
215	87294	100206	46851
216	87296	308854	229819
217	87298	315021	230447
218	87299	165050	69530
219	87300	314428	230521
220	87301	316447	232672
221	87302	316265	232948
222	87304	311918	233391
223	87306	314409	230075
224	87308	316283	228547
225	87309	318861	253853
226	87310	314711	233705
227	87311	316130	234720
228	87313	313315	234272
229	87317	127986	223676
230	87326	129492	225051
231	87331	130075	226112
232	87334	132430	227155
233	87338	129945	225415
234	87344	129775	225155
235	87345	130015	225312

No.	Site I.D	Easting	Northing
236	87357	133402	228250
237	87359	190387	68965
238	87373	211964	77850
239	87374	273178	212286
240	87375	295261	235651
241	87378	289200	218600
242	87382	156077	98542
243	87384	293092	222906
244	87385	291263	220590
245	87387	291785	229506
246	87391	288954	224078
247	87392	279447	214716
248	87395	250526	156262
249	87397	233191	167793
250	87406	166035	71247
251	87409	251385	156217
252	87411	250640	155707
253	87422	166822	68906
254	87427	83392	114406
255	87435	83563	114432
256	87439	99100	134000
257	87446	96299	91082
258	87451	167628	71792
259	87452	213085	275470
260	87453	173387	73603
261	87458	167783	72517
262	87466	304818	306536
263	87468	308805	275529
264	87471	304850	307158
265	87474	304304	306732
266	87481	303040	308228
267	87483	183800	64700
268	87484	309901	274841
269	87487	180855	99209
270	87491	161414	158158
271	87492	163700	50540
272	87493	157820	157698
273	87496	148939	54902
274	87497	159679	157045
275	87500	157507	156908

No.	Site I.D	Easting	Northing
276	87507	161827	157200
277	87508	157168	155676
278	87509	162869	158103
279	87512	138492	41665
280	87514	157361	156918
281	87516	158445	155636
282	87527	194139	299757
283	87534	246788	198049
284	87546	247142	197071
285	87548	188110	73780
286	87549	314273	273383
287	87550	301746	249213
288	87554	287106	267392
289	87557	296000	274400
290	87559	284131	244601
291	87560	296309	251712
292	87562	170875	74490
293	87567	168100	71960
294	87570	279779	256194
295	87571	301287	242285
296	87579	273884	276014
297	87581	286265	268973
298	87586	284127	303718
299	87588	287252	325024
300	87589	159890	70720
301	87590	267518	333149
302	87595	250451	325666
303	87597	282767	319512
304	87600	267347	334117
305	87612	165805	72432
306	87614	171857	70540
307	87623	124241	318895
308	87624	99940	283970
309	87628	114294	289812
310	87643	263273	232556
311	87644	233905	225117
312	87647	181564	112425
313	87670	168049	71538
314	87681	169462	335691
315	87688	170847	336988

No.	Site I.D	Easting	Northing
316	87699	212798	158270
317	87703	211502	150392
318	87710	210800	171000
319	87717	167582	69942
320	87718	220260	122322
321	87721	240268	120789
322	87724	220960	120988
323	87729	167015	72080
324	87730	259864	112696
325	87731	257974	101377
326	87732	226095	93010
327	87738	265123	109765
328	87739	260472	112399
329	87740	260286	111046
330	87742	262528	111026
331	87746	156815	71853
332	87749	202931	241513
333	87753	243869	253159
334	87757	170052	71919
335	87767	323344	217992
336	87771	327687	215262
337	87776	324508	173238
338	87787	305235	121550
339	87788	304901	121465
340	87792	315216	159540
341	87793	303973	121514
342	87813	308605	241420
343	87815	242213	304428
344	87819	308330	276157
345	87820	166545	74658
346	87829	324950	227350
347	87832	261197	112375
348	87833	308550	231950
349	87834	308896	231917
350	87835	323951	224305
351	87836	318735	226968
352	87838	314758	231754
353	87839	213911	394672
354	87840	293297	238375
355	87844	305485	241595

No.	Site I.D	Easting	Northing
356	87848	220863	123526
357	87852	325500	217300
358	87857	286905	267871
359	87861	83892	114446
360	87865	316338	235985
361	87866	272736	176990
362	87867	246278	300633
363	87872	128370	227055
364	87875	310872	230725
365	87891	316670	234063
366	87898	318166	225641
367	87902	242271	318240
368	87907	293902	237723
369	87909	322776	249956
370	87914	250067	154875
371	87916	312250	227150
372	87917	216943	411484
373	87918	307035	231493
374	87920	133799	179512
375	87921	153421	154099
376	87924	313157	225858
377	87929	85400	114700
378	87938	259750	108150
379	87941	309766	233564
380	87948	288766	221552
381	87951	232549	226372
382	87954	314934	234709
383	87962	311534	233763
384	87964	315379	242127
385	87969	315795	233929
386	87975	216974	411958
387	87985	227507	222571
388	87990	166666	71351
389	87992	132365	225810
390	87994	308759	234967
391	87997	130200	225385
392	87999	303098	234234
393	88000	306673	240283
394	88002	130149	225230
395	88003	316947	233982

No.	Site I.D	Easting	Northing
396	88004	167654	71904
397	88006	306920	238868
398	88011	163318	70808
399	88012	280450	215120
400	88013	315586	233291
401	88014	240578	427131
402	88015	180966	73264
403	88017	156645	153827
404	88018	309173	225668
405	88022	316040	234225
406	88026	160458	155256
407	88027	315935	234637
408	88031	316251	234909
409	88032	319098	226069
410	88033	303650	239949
411	88035	141811	163938
412	88037	157986	157278
413	88038	316227	235544
414	88039	320531	225400
415	88044	315725	233121
416	88045	314489	234375
417	88046	326850	218800
418	88047	213305	158807
419	88050	280152	256872
420	88051	316993	237704
421	88052	257981	110864
422	88062	157136	156467
423	88067	173084	76150
424	88073	276204	244149
425	88077	322798	239525
426	88079	307397	273672
427	88081	134745	225800
428	88083	325029	225529
429	88084	231871	398551
430	88086	315005	236020
431	88088	316049	233798
432	88090	309579	232639
433	88091	316473	233273
434	88096	316711	233249
435	88100	167117	68157

No.	Site I.D	Easting	Northing
436	88110	206043	241060
437	88116	312125	240578
438	88118	287870	265057
439	88121	304324	232912
440	88126	315346	257985
441	88127	318989	231808
442	88137	167742	73874
443	88145	253550	155030
444	88149	174608	72053
445	88150	286541	219131
446	88159	311016	276472
447	88162	190726	362684
448	88168	174007	177305
449	88169	155872	157760
450	88180	182227	359099
451	88182	313068	226230
452	88185	170024	69639
453	88187	317257	241525
454	88191	216103	393721
455	88193	291105	216579
456	88196	301505	228300
457	88197	262522	442007
458	88202	263333	326690
459	88203	299450	236530
460	88206	172703	72600
461	88211	128078	225400
462	88217	172614	70104
463	88219	305733	234264
464	88229	313879	236086
465	88238	305710	293300
466	88239	313991	237179
467	88242	307125	239300
468	88250	304022	268955
469	88251	279885	255811
470	88261	315902	238738
471	88262	315939	233826
472	88264	314071	234027
473	88267	317620	233156
474	88269	313245	230979
475	88270	318657	238215

No.	Site I.D	Easting	Northing
476	88272	314560	233913
477	88273	316475	237646
478	88275	318920	239860
479	88276	313535	240056
480	88282	316160	233080
481	88283	320955	227034
482	88285	318440	230828
483	88287	320631	227688
484	88288	313293	239027
485	88289	310246	231761
486	88296	316210	232725
487	88297	318599	234770
488	88298	306111	306801
489	88300	317414	225242
490	88306	315377	230051
491	88307	172989	62764
492	88308	188000	73230
493	88309	167543	69187
494	88310	314181	228797
495	88315	218365	412177
496	88316	314075	235530
497	88324	307800	238930
498	88325	309960	234320
499	88328	320297	225891
500	88330	308441	228819
501	88336	305000	242550
502	88342	309792	240784
503	88343	316799	243271
504	88344	319726	226046
505	88346	280364	214796
506	88347	234739	432317
507	88353	322268	239847
508	88356	230147	410913
509	88358	309148	230561
510	88360	130365	226680
511	88365	317345	227641
512	88384	289291	219488
513	88392	156634	158339
514	88403	322810	246125
515	88407	295455	239028

No.	Site I.D	Easting	Northing
516	88411	316365	233326
517	88415	309820	244813
518	88416	314734	234479
519	88422	307788	242229
520	88425	307250	236274
521	88432	308536	232406
522	88434	280509	214885
523	88435	286448	228717
524	88436	317345	227641
525	88438	157495	69580
526	88447	317611	232823
527	88450	321565	229266
528	88454	324403	228490
529	88472	324231	223194
530	88477	317121	234268
531	88478	295740	232640
532	88486	317121	234268
533	88487	317151	229486
534	88488	327321	237800
535	88490	315278	233425
536	88492	316107	233511
537	88493	322841	225582
538	88494	317121	234268
539	88495	293161	234166
540	88497	308921	228088
541	88498	310175	228524
542	88499	315556	234644
543	88501	306500	271600
544	88507	316410	239200
545	88508	315005	236020
546	88509	309237	275038
547	88511	317852	263941
548	88516	323332	239801
549	88522	319305	234767
550	88524	308225	228239
551	88528	317750	235650
552	88531	317648	238723
553	88533	313679	238209
554	88534	319108	246492
555	88540	308461	233925

No.	Site I.D	Easting	Northing
556	88544	324620	243770
557	88547	300857	235296
558	88562	313392	232446
559	88567	316950	233550
560	88576	157954	156850
561	88577	316707	232542
562	88587	315800	233200
563	88588	155619	152458
564	88595	170012	337089
565	88596	311430	228230
566	88598	318068	234069
567	88606	307893	231064
568	88611	326568	227310
569	88615	317486	234215
570	88616	316620	230060
571	88618	315840	232750
572	88619	318400	233450
573	88620	319858	230615
574	88622	314908	240698
575	88625	319740	239260
576	88627	316864	234910
577	88629	318336	240650
578	88633	320297	224453
579	88634	309609	226506
580	88638	316372	233408
581	88639	303857	239484
582	88640	318210	246564
583	88642	312686	236288
584	88643	308050	236880
585	88644	306414	252445
586	88649	305822	238117
587	88651	315569	246823
588	88653	303586	232141
589	88656	324565	259925
590	88657	315462	235864
591	88659	317201	249598
592	88660	314996	234363
593	88663	260378	289533
594	88664	304926	231044

Schedule 2

The apparatus for Wireless Telegraphy to which this licence applies

No.	Manufacturer	Component	Equipment No.
1	Redacted	BTS	Redacted
2	Redacted	BTS	Redacted
3	Redacted	BTS	Redacted
4	Redacted	BTS	Redacted
5	Redacted	BTS	Redacted
6	Redacted	Antenna	Redacted
7	Redacted	Antenna	Redacted
8	Redacted	Antenna	Redacted
9	Redacted	Antenna	Redacted
10	Redacted	Antenna	Redacted
11	Redacted	Antenna	Redacted
12	Redacted	Antenna	Redacted
13	Redacted	Antenna	Redacted
14	Redacted	Antenna	Redacted
15	Redacted	Antenna	Redacted
16	Redacted	Antenna	Redacted
17	Redacted	Antenna	Redacted
18	Redacted	Antenna	Redacted
19	Redacted	Antenna	Redacted
20	Redacted	Antenna	Redacted
21	Redacted	Antenna	Redacted
22	Redacted	Antenna	Redacted
23	Redacted	Antenna	Redacted
24	Redacted	Antenna	Redacted
25	Redacted	Antenna	Redacted
26	Redacted	Antenna	Redacted
27	Redacted	Antenna	Redacted
28	Redacted	Antenna	Redacted
29	Redacted	Antenna	Redacted
30	Redacted	Antenna	Redacted
31	Redacted	Antenna	Redacted
32	Redacted	Antenna	Redacted
33	Redacted	Antenna	Redacted
34	Redacted	Antenna	Redacted
35	Redacted	Antenna	Redacted
36	Redacted	Antenna	Redacted
37	Redacted	Antenna	Redacted

No.	Manufacturer	Component	Equipment No.
38	Redacted	Antenna	Redacted
39	Redacted	Antenna	Redacted
40	Redacted	Antenna	Redacted
41	Redacted	Antenna	Redacted
42	Redacted	Antenna	Redacted
43	Redacted	Antenna	Redacted
44	Redacted	Antenna	Redacted
45	Redacted	Antenna	Redacted
46	Redacted	Antenna	Redacted
47	Redacted	Antenna	Redacted
48	Redacted	Antenna	Redacted
49	Redacted	Antenna	Redacted
50	Redacted	Antenna	Redacted
51	Redacted	Antenna	Redacted
52	Redacted	Antenna	Redacted
53	Redacted	Antenna	Redacted
54	Redacted	Antenna	Redacted
55	Redacted	Antenna	Redacted
56	Redacted	Antenna	Redacted
57	Redacted	Antenna	Redacted
58	Redacted	Antenna	Redacted
59	Redacted	Antenna	Redacted
60	Redacted	Antenna	Redacted
61	Redacted	Antenna	Redacted
62	Redacted	Antenna	Redacted
63	Redacted	Antenna	Redacted
64	Redacted	Antenna	Redacted
65	Redacted	Antenna	Redacted
66	Redacted	Antenna	Redacted
67	Redacted	Antenna	Redacted
68	Redacted	Antenna	Redacted
69	Redacted	Antenna	Redacted
70	Redacted	Antenna	Redacted
71	Redacted	Antenna	Redacted
72	Redacted	Antenna	Redacted
73	Redacted	Antenna	Redacted
74	Redacted	Antenna	Redacted
75	Redacted	Antenna	Redacted
76	Redacted	Antenna	Redacted
77	Redacted	Repeater	Redacted

No.	Manufacturer	Component	Equipment No.
78	Redacted	Repeater	Redacted
79	Redacted	Repeater	Redacted
80	Redacted	Repeater	Redacted
81	Redacted	Antenna	Redacted
82	Redacted	Antenna	Redacted
83	Redacted	Antenna	Redacted
84	Redacted	Antenna	Redacted
85	Redacted	Antenna	Redacted
86	Redacted	Antenna	Redacted
87	Redacted	Antenna	Redacted
88	Redacted	Antenna	Redacted
89	Redacted	Repeater	Redacted
90	Redacted	Repeater	Redacted
91	Redacted	Antenna	Redacted
92	Redacted	Antenna	Redacted
93	Redacted	Antenna	Redacted
94	Redacted	Antenna	Redacted

Schedule 3

**Radio Frequency Channels on which the Apparatus is authorised by this
Licence to be used.**

Channel Number	Uplink Centre Frequency(MHz)	Downlink Centre Frequency (MHz)
512	1710.2	1805.2
513	1710.4	1805.4
514	1710.6	1805.6
515	1710.8	1805.8
516	1711	1806
517	1711.2	1806.2
518	1711.4	1806.4
519	1711.6	1806.6
520	1711.8	1806.8
521	1712	1807
522	1712.2	1807.2
523	1712.4	1807.4
524	1712.6	1807.6
525	1712.8	1807.8
526	1713	1808
527	1713.2	1808.2
528	1713.4	1808.4
529	1713.6	1808.6
530	1713.8	1808.8
531	1714	1809
532	1714.2	1809.2
533	1714.4	1809.4
534	1714.6	1809.6
535	1714.8	1809.8
536	1715	1810
537	1715.2	1810.2
538	1715.4	1810.4
539	1715.6	1810.6
540	1715.8	1810.8
541	1716	1811

Channel Number	Uplink Centre Frequency(MHz)	Downlink Centre Frequency (MHz)
542	1716.2	1811.2
543	1716.4	1811.4
544	1716.6	1811.6
545	1716.8	1811.8
546	1717	1812
547	1717.2	1812.2
548	1717.4	1812.4
549	1717.6	1812.6
550	1717.8	1812.8
551	1718	1813
552	1718.2	1813.2
553	1718.4	1813.4
554	1718.6	1813.6
555	1718.8	1813.8
556	1719	1814
557	1719.2	1814.2
558	1719.4	1814.4
559	1719.6	1814.6
560	1719.8	1814.8
561	1720	1815
562	1720.2	1815.2
563	1720.4	1815.4
564	1720.6	1815.6
565	1720.8	1815.8
566	1721	1816
567	1721.2	1816.2
568	1721.4	1816.4
569	1721.6	1816.6
570	1721.8	1816.8
571	1722	1817
572	1722.2	1817.2
573	1722.4	1817.4
574	1722.6	1817.6
575	1722.8	1817.8
576	1723	1818
577	1723.2	1818.2
578	1723.4	1818.4

Channel Number	Uplink Centre Frequency(MHz)	Downlink Centre Frequency (MHz)
579	1723.6	1818.6
580	1723.8	1818.8
581	1724	1819
582	1724.2	1819.2
583	1724.4	1819.4

Schedule 4

Commitments which the Licensee made in the course of a comparative selection procedure. This schedule, parts 1 through 8 inclusive, formed part of the Original Licence.

Schedule 4

Part 1

LICENCE COMMENCEMENT DATE

The Licence Commencement Date with respect to GSM 1800 is 1 January 2000.

Schedule 4

Part 2

THE LICENSED MOBILE SERVICES

1. The Licensed Mobile Services

The Licensed Mobile Services are GSM Mobile and Personal Communications Services having the characteristic of a pan-European, cellular, digital, land based, mobile telephony service:-

- (a) Compatible with the GSM Standard and provided in the 1800MHz “GSM1800 Service”), band in accordance with the Wireless Telegraphy Acts 1926 – 1988 and the GSM technical specifications of the European Telecommunications Standards Institute ("ETSI"), as published by the National Standards Authority of Ireland ("NSAI") and
- (b) With the international roaming capability referred to in Part 5 of the Schedule.

2. Additional services

2.1 The Licensee shall be required to provide the following Services:-

- Fax and Data.
- Short Message Service.
- Voicemail.
- Call Diversion.
- Call waiting and Hold.
- Call Barring.

Before December 31, 2000 the Licensee shall introduce platforms for the following services, or equivalents thereto:-

- Mobile banking (in association with a licensed bank).
- Enhanced Data Services.
- Enhanced Voicemail User Interface.
- Wireless Application Protocol.

Before 31 December 2003, the Licensee shall introduce the following:-

- Medium to Broadband Data Services (based on approved ETSI GSM evolution standards).

Schedule 4

Part 3

ACCESS TO THE EMERGENCY SERVICES

1. General.

The Licensee shall provide ready access for customers through the Licensed Mobile Service to the emergency services (within the meaning of this Part 3 of the Schedule).

2. Calls to an Emergency Service.

In this part an “emergency services” means the Gárda Síochána, the fire brigade services, the ambulance services, the boat and coastal rescue services, (including the rescue services provided by the Air Corps) or the mountain and cave rescue services.

3. Directions by the Commission.

The Commission may give directions in writing to the Licensee in relation to the handling of calls to and from customers relating to an emergency service (“emergency calls”), and the Licensee shall comply with any such directions.

4. Acceptance of Emergency Calls.

Emergency access codes 999 and 112 shall be open to all GSM terminal equipment equipped with a valid SIM Card, where technically necessary, and any other codes subsequently designated for use as emergency access codes, exclusively for calls to the emergency services

5. Routing of Emergency Calls.

The Licensee shall ensure that an emergency call is routed at the expense of the Licensee, to a collection centre for emergency calls. The Licensee shall provide not less than two routes with physical diversity between each mobile switching centre and a collection centre as described.

6. Emergency Calls Free of Charge.

- (a) The Licensee shall not impose a charge on the customer in respect of an emergency call.

7. Identification of Emergency Calls

When an emergency call is made to an emergency service from terminal equipment of a customer, the Licensee shall, where technically possible, transmit the customer's number to a collection centre for emergency calls in the form of a calling line identification message.

Schedule 4

Part 4

SERVICE QUALITY, PERFORMANCE STANDARDS & OBLIGATIONS

1. General Obligations

For the purposes of carrying out service quality surveys, the Licensee shall provide, on request, to the Commission the following:

Maps showing coverage for:-

- In the case of the GSM1800 service, 1 Watt terminals;
- An up to date list of the locations of the base transceiver stations;
- A mechanism for identifying the base station that is handling a call at any given time;
- An adequate number of test numbers.

Where requested to do so, the Licensee shall provide to members of the public, maps of the other GSM operators with whom it has roaming agreements showing the coverage provided by them.

2. Coverage.

2.1.1 "Coverage" means the extent to which the strength of the radio signal is sufficient to provide an adequate service for:-

- a 1 Watt, GSM1800 terminal operating outdoors.

An adequate service is achieved outdoors if the average field strength measured outdoors is at least 54dBuV/m for GSM1800 at a height of 1.5 metres above ground level.

An adequate service is achieved indoors if the average field strength measured outdoors is 64 dBuV/m for GSM1800 at a height of 1.5 metres above ground level.

Coverage is expressed as a percentage of geographical area, and as a percentage of the population, of the State.

2.2 Measurement Guidelines for coverage.

The appropriate figures contained in the latest population census published by the Central Statistics Office will be used for calculating the base figure when calculating national population coverage.

Measurements to determine coverage shall be carried out using a 1 Watt, GSM1800 terminal operating outdoors

Alternatively, signal strength measuring equipment may used.

2.3 Mandatory Service Standards

The Licensee shall ensure that the national population coverage shall not fall below:-

In the case of the GSM1800 service, 40%, subject to the provisions of Part 6 of the Schedule.

2.4 Other Obligations

The Licensee shall publish up to date maps showing coverage for 2 Watt GSM1800 terminals operating outdoors.

3. Service Unavailability

"Service unavailability" means the average number of minutes per terminal per year for which the Licensed Mobile Service is not available due to a network disturbance, failure or scheduled unavailability.

3.1 Measurement Guidelines for service unavailability

The calculation of service unavailability is subject to the following weighting factors which take account of traffic load variations:-

Service Unavailability, Weighting Factors (divide duration of each network event by weighting factor)			
	Monday to Friday	Saturday	Sunday
For periods between 07.00 and 24.00	1	2	4
For periods between 00.00 and 07.00	4	8	16

Mandatory Service Standard

The Licensee shall ensure that service unavailability is less than 60 minutes.

Other Obligations

The Licensee shall keep a log (the "network log") for the purposes of recording and tracking all periods of system unavailability. The Licensee shall maintain this network log in a manner, that will demonstrate, to the satisfaction of the Commission, that such a network log is an adequate means of assessing whether the Licensee is complying with its system availability obligations under this licence.

The network log, or as may be appropriate part thereof, shall be made available on request to the Commission.

The Licensee shall calculate the service unavailability for the Licensed Mobile Services for any period specified by the Commission from the information recorded in the network log, and shall upon request and within such time as may be specified by the Commission, provide the Commission with the results of the calculation.

4. Grade of Service

4.1 Blocking Rates

Definitions:

"Blocking rate" means the percentage of total call attempts made for the traffic case concerned, during the time consistent busy hour and within coverage, which are unsuccessful.

"Time consistent busy hour" means the period of one hour starting at the same time each day for which the average traffic of the Licensee's Mobile and Personal Communications System concerned is greatest over the days under consideration. The time consistent busy hour shall be determined from an analysis of traffic data obtained from the service and shall be subject to the approval of the Commission.

4.1.1 Mandatory Service Standards

The Licensee shall ensure that the blocking rate shall not exceed the percentages in respect of each of the traffic cases specified in the following Table:-

Maximum Permissible Blocking Rates		
Traffic Case	Blocking rate	
	Average	Worst Case
Terminal equipment (connected to the Licensee's Mobile and Personal Communications System) to Terminal equipment (connected to the Licensee's Mobile and Personal Communications System)	3%	10%
Terminal equipment (connected to the Licensee's Mobile and Personal Communications System) to Terminal equipment (connected to the Mobile and Personal Communications System of an Other Licensed Operator)	3%	10%
Terminal equipment (connected to the Licensee's Mobile and Personal Communications System) to Terminal equipment (connected to the Telecommunications Network of an Other Licensed Operator)	3%	8%

4.2 Dropped Calls

4.2.1 "Dropped call rate" means the percentage of total established calls during any measurement period which are prematurely released by the Licensee's Mobile and Personal Communications System within three minutes.

Measurement Guidelines.

Measurements will be made with a 1Watt, GSM1800 terminal operating within claimed coverage areas.

4.2.2 Mandatory Service Standards

The Licensee shall ensure that the dropped call rate shall not exceed the percentage in respect of each of the traffic cases specified in the following Table:-

Maximum Permissible Dropped Call Rates		
Traffic Case	Dropped Call Rate	
	Average	Worst Case
Terminal equipment (connected to the Licensee's Mobile and Personal Communications System) to Terminal equipment (connected to the Licensee's Mobile and Personal Communications System)	2%	4%
Terminal equipment (connected to the Licensee's Mobile and Personal Communications System) to Terminal equipment (connected to the Mobile and Personal Communications System of an Other Licensed Operator)	2%	4%
Terminal equipment (connected to the Licensee's Mobile and Personal Communications System) to Terminal equipment (connected to the Telecommunications Network of an Other Licensed Operator)	1.5%	3%

4.3 Transmission Quality

The Licensee shall ensure that the speech transmission quality complies with the GSM Technical Specifications of ETSI.

In particular, the Licensee shall ensure that appropriate echo treatment equipment is used in the provision of the Licensed Mobile Services and that it is properly configured.

4.4 Other Obligations

The Licensee shall provide to the Commission, on request, such grade of service measurement information as the Commission considers necessary to determine performance against mandatory service standards and specifies to the Licensee. Customer Service Centres Response Times.

"Response time" means in relation to a customer service centre, is, the time taken for a call to the centre to be answered.

5. Mandatory Service Standards

The Licensee shall ensure that the response time shall accord with the appropriate time specified in the following Table:

Service Period	Response Times
08.00 to 20.00 hours, Monday to Friday, and 09.00 to 17.00 hours, Saturday, Sunday and Public Holidays	less than 15 seconds for 90% of calls, and less than 45 seconds for all calls
00.00 to 08.00 hours and 20.00 to 24.00 hours, Monday to Friday, and 00.00 to 09.00 hours and 17.00 to 24.00 hours, Saturday, Sunday and Public Holidays	less than 20 seconds for 90% of calls, and less than 60 seconds for all calls

6. Billing

6.1 Mandatory Service Standards

In relation to billing, the Licensee shall, unless agreed otherwise with individual customers, comply with the appropriate standard requirements specified in the following Table:-

Billing Aspects	Standard Requirements	Options and Alternatives
Billing Method	Per Second Billing	At commencement of the service, calls shall attract minimum thirty second charge and charges shall increment in ten second intervals thereafter

6.2 Billing Accuracy and Fraud Detection

The Licensee shall incorporate in its billing system:

measures to ensure that each call record is an accurate record of the actual call and that the correct accumulated call records are applied to generate each customer's bill, and

- (ii) measures to detect cases of possible fraud including measures to identify rapidly abnormal calling patterns.

7. Performance Standards and Objectives

7.1 The Commission may, by direction in writing given to the Licensee, specify performance standards and obligations with respect to service quality or modify existing performance standards and obligations and the Licensee shall comply with any such directions.

Schedule 4

Part 5

ROAMING

The Licensee shall not act on foot of any agreement providing for a national roaming capability made between the Licensee and any other provider of a GSM mobile telephony service in the State unless and until the Commission has approved the terms of the agreement.

The Licensee shall establish and maintain as part of the Licensed Mobile Services an international roaming capability for its Users that is as wide and comprehensive as is practicable.

The Licensee may impose charges in respect of Users roaming on GSM mobile telephony networks in other countries (being outward-roaming Users) and in respect of Users of GSM mobile telephony services in other countries roaming on the Licensee's Mobile and Personal Communications System (being inward-roaming Users) at rates not exceeding those specified below:-

Roaming Services	Licensee's charges	
	Outward-roaming User	Inward-roaming User
Roaming Service Fee	No charge	No charge
Outgoing calls from roaming customer	Other operator's tariff for roaming customers plus administration surcharge not exceeding 15% of that tariff	Licensee's call tariff for roaming customers charged to the other operator and no administration surcharge

Schedule 4

Part 6

SERVICE ROLL-OUT REQUIREMENTS

Minimum Service Roll-out Requirements

The Licensee shall ensure that coverage (as defined in Part 4) measured in accordance with Part 4 shall be not less than the percentages specified in the following Table before the expiration of the periods specified in that Table:-

Table: GSM1800 Service

Year	July 2000	End 2000	End 2001	End 2002
Coverage				
Population	23%	31%	38%	40%

Schedule 4

Part 7

CHARGES TO CUSTOMERS

1. The Licensee shall endeavour to reduce, in each of its financial years, the amounts of the charges to its customers so that those amounts are, after allowance is made for changes in the value of money in each such year after the first, lower than those obtaining in the previous such year, and shall endeavour to maintain those charges at or below the appropriate international comparators specified from time to time by the Commission.

2. The following supplementary features shall be provided as constituent parts of the service to any customer, on request, without the addition of any amount in respect thereof to the amount of the connection fee or monthly rental specified, that is to say:

- voice mail,
- call diversion,
- call waiting,
- short message service,
- GSM data and fax

Schedule 4

Part 8

OTHER CONDITIONS

1. The Licensee shall maintain at least one centre (a “customer service centre”) to which access by telephone free of charge is provided to customers and members of the public at all times.
2. A customer service centre shall make available at all times a facility to receive reports in relation to difficulty in the use of the Licensed Mobile Services of a fault or breakdown in the provision of the Licensed Mobile Services.
