

No.	International Point	Region Code *	U.S. Carriers Average Mobile Surcharge ** (2004)	AT&T Mobile Surcharge (7/23/04)	MCI Mobile Surcharge (10/01/04)	Sprint Mobile Surcharge (8/13/04)	Verizon Mobile Surcharge (8/13/04)
51	El Salvador	5	\$0.040	\$0.05	\$0.04	\$0.06	\$0.01
52	Eritrea (include in Ethiopia)	2	\$0.008	\$0.03	\$0.00	\$0.00	\$0.00
53	Estonia	9	\$0.223	\$0.22	\$0.21	\$0.24	\$0.22
54	Ethiopia	2	\$0.018	\$0.00	\$0.00	\$0.00	\$0.07
55	Faroe Islands (include in Denmark)	1	\$0.010	\$0.00	\$0.04	\$0.00	\$0.00
56	Finland	1	\$0.163	\$0.17	\$0.15	\$0.19	\$0.14
57	France	1	\$0.215	\$0.24	\$0.20	\$0.23	\$0.19
58	French Guiana	6	\$0.165	\$0.22	\$0.15	\$0.29	\$0.00
59	Gabon	2	\$0.013	\$0.03	\$0.01	\$0.01	\$0.00
60	Gambia, The	2	\$0.015	\$0.03	\$0.01	\$0.02	\$0.00
61	Georgia	9	\$0.093	\$0.09	\$0.10	\$0.09	\$0.09
62	Germany	1	\$0.190	\$0.18	\$0.20	\$0.22	\$0.16
63	Ghana	2	\$0.045	\$0.06	\$0.03	\$0.06	\$0.03
64	Gibraltar	1	\$0.180	\$0.22	\$0.14	\$0.24	\$0.12
65	Greece	1	\$0.223	\$0.23	\$0.25	\$0.24	\$0.17
66	Greenland	1	\$0.018	\$0.07	\$0.00	\$0.00	\$0.00
67	Grenada	4	\$0.085	\$0.08	\$0.06	\$0.10	\$0.00
68	Guadeloupe	4	\$0.175	\$0.22	\$0.00	\$0.28	\$0.20
69	Guatemala	5	\$0.025	\$0.03	\$0.01	\$0.03	\$0.03
70	Guinea	2	\$0.010	\$0.00	\$0.04	\$0.00	\$0.00
71	Haiti	4	\$0.163	\$0.20	\$0.10	\$0.16	\$0.19
72	Honduras	5	\$0.005	\$0.02	\$0.00	\$0.00	\$0.00
73	Hong Kong	7	\$0.020	\$0.04	\$0.00	\$0.04	\$0.00
74	Hungary	9	\$0.163	\$0.16	\$0.15	\$0.20	\$0.14
75	Iceland	1	\$0.173	\$0.17	\$0.18	\$0.19	\$0.15
76	India	7	\$0.008	\$0.01	\$0.00	\$0.01	\$0.01
77	Indonesia	7	\$0.078	\$0.05	\$0.07	\$0.08	\$0.11
78	Ireland	1	\$0.165	\$0.17	\$0.13	\$0.18	\$0.18
79	Israel	3	\$0.080	\$0.06	\$0.07	\$0.06	\$0.06
80	Italy	1	\$0.185	\$0.20	\$0.19	\$0.20	\$0.15
81	Jamaica	4	\$0.085	\$0.07	\$0.08	\$0.09	\$0.10
82	Japan	7	\$0.140	\$0.14	\$0.14	\$0.14	\$0.14
83	Jordan	3	\$0.053	\$0.06	\$0.03	\$0.06	\$0.06
84	Kazakhstan	9	\$0.020	\$0.04	\$0.00	\$0.04	\$0.00
85	Kenya	2	\$0.043	\$0.00	\$0.09	\$0.06	\$0.00
86	Korea, South	7	\$0.038	\$0.04	\$0.04	\$0.04	\$0.03
87	Kuwait	3	\$0.005	\$0.02	\$0.00	\$0.00	\$0.00
88	Laos	7	\$0.003	\$0.00	\$0.00	\$0.01	\$0.00
89	Latvia	9	\$0.103	\$0.11	\$0.08	\$0.12	\$0.10
90	Lebanon	3	\$0.085	\$0.09	\$0.08	\$0.09	\$0.08
91	Lesotho	2	\$0.003	\$0.00	\$0.01	\$0.00	\$0.00
92	Liberia	2	\$0.015	\$0.06	\$0.00	\$0.00	\$0.00
93	Liechtenstein	1	\$0.205	\$0.00	\$0.26	\$0.35	\$0.21
94	Lithuania	9	\$0.078	\$0.08	\$0.08	\$0.09	\$0.06
95	Luxembourg	1	\$0.195	\$0.21	\$0.19	\$0.21	\$0.17
96	Madagascar	2	\$0.010	\$0.00	\$0.00	\$0.00	\$0.04
97	Malaysia	7	\$0.038	\$0.05	\$0.02	\$0.05	\$0.03
98	Mali	2	\$0.018	\$0.07	\$0.00	\$0.00	\$0.00
99	Malta	1	\$0.173	\$0.23	\$0.22	\$0.24	\$0.00
100	Martinique (French Overseas Dept.)	4	\$0.155	\$0.22	\$0.18	\$0.22	\$0.00

No.	International Point	Region Code *	U.S. Carriers Average Mobile Surcharge ** (2004)	AT&T Mobile Surcharge (7/2004)	MCI Mobile Surcharge (10/01/04)	Sprint Mobile Surcharge (6/13/04)	Verizon Mobile Surcharge (6/13/04)
101	Mauritania	2	\$0.013	\$0.05	\$0.00	\$0.00	\$0.00
102	Mayotte (include in Comoros)	2	\$0.220	\$0.22	\$0.26	\$0.26	\$0.00
103	Moldova	9	\$0.028	\$0.00	\$0.03	\$0.06	\$0.00
104	Morocco (include in France)	1	\$0.130	\$0.14	\$0.10	\$0.15	\$0.13
105	Morocco	2	\$0.080	\$0.08	\$0.07	\$0.10	\$0.06
106	Myanmar	7	\$0.005	\$0.02	\$0.00	\$0.00	\$0.00
107	Namibia	2	\$0.086	\$0.12	\$0.10	\$0.17	\$0.00
108	Nepal	7	\$0.013	\$0.00	\$0.05	\$0.05	\$0.00
109	Netherlands	1	\$0.248	\$0.26	\$0.24	\$0.27	\$0.22
110	Netherlands Antilles	4	\$0.045	\$0.04	\$0.05	\$0.04	\$0.06
111	New Zealand	6	\$0.226	\$0.24	\$0.22	\$0.27	\$0.18
112	Nicaragua	5	\$0.090	\$0.01	\$0.11	\$0.06	\$0.00
113	Nigeria	2	\$0.083	\$0.14	\$0.08	\$0.11	\$0.00
114	Norway	1	\$0.160	\$0.16	\$0.17	\$0.17	\$0.14
115	Oman	3	\$0.025	\$0.00	\$0.10	\$0.00	\$0.00
116	Panama	5	\$0.063	\$0.06	\$0.07	\$0.06	\$0.02
117	Paraguay	6	\$0.070	\$0.09	\$0.03	\$0.09	\$0.07
118	Peru	6	\$0.298	\$0.26	\$0.25	\$0.27	\$0.25
119	Philippines	7	\$0.046	\$0.05	\$0.04	\$0.05	\$0.05
120	Poland	9	\$0.193	\$0.19	\$0.18	\$0.20	\$0.20
121	Portugal	1	\$0.218	\$0.23	\$0.21	\$0.24	\$0.19
122	Qatar	3	\$0.046	\$0.00	\$0.10	\$0.04	\$0.05
123	Raunon	2	\$0.165	\$0.22	\$0.15	\$0.29	\$0.00
124	Romania	9	\$0.120	\$0.16	\$0.13	\$0.16	\$0.03
125	Russia	9	\$0.003	\$0.01	\$0.00	\$0.00	\$0.00
126	Rwanda	2	\$0.013	\$0.00	\$0.03	\$0.02	\$0.00
127	Saint Lucia	4	\$0.055	\$0.09	\$0.04	\$0.08	\$0.00
128	Samoa (Western)	8	\$0.073	\$0.06	\$0.07	\$0.14	\$0.00
129	Saudi Arabia	3	\$0.003	\$0.01	\$0.00	\$0.00	\$0.00
130	Senegal	2	\$0.028	\$0.04	\$0.03	\$0.04	\$0.00
131	Sierra Leone	2	\$0.006	\$0.00	\$0.00	\$0.03	\$0.00
132	Singapore	7	\$0.005	\$0.02	\$0.00	\$0.00	\$0.00
133	Slovakia	9	\$0.143	\$0.13	\$0.14	\$0.22	\$0.06
134	Slovenia	9	\$0.168	\$0.20	\$0.16	\$0.20	\$0.09
135	South Africa	2	\$0.133	\$0.14	\$0.12	\$0.14	\$0.13
136	Spain	1	\$0.193	\$0.20	\$0.19	\$0.20	\$0.18
137	St. Lucia	7	\$0.023	\$0.02	\$0.07	\$0.00	\$0.00
138	St. Pierre and Miquelon	5	\$0.140	\$0.22	\$0.05	\$0.29	\$0.00
139	St. Vincent and the Grenadines	4	\$0.045	\$0.09	\$0.00	\$0.09	\$0.00
140	Sudan	2	\$0.003	\$0.00	\$0.01	\$0.00	\$0.00
141	Swaziland	2	\$0.013	\$0.03	\$0.02	\$0.00	\$0.00
142	Sweden	1	\$0.203	\$0.24	\$0.19	\$0.22	\$0.16
143	Switzerland	1	\$0.268	\$0.30	\$0.27	\$0.29	\$0.21
144	Syria	3	\$0.010	\$0.00	\$0.04	\$0.00	\$0.00
145	T.F.Y.R. Macedonia (include Serbia)	9	\$0.095	\$0.10	\$0.11	\$0.12	\$0.05
146	Taiwan	7	\$0.073	\$0.14	\$0.05	\$0.05	\$0.05
147	Thailand	7	\$0.005	\$0.02	\$0.00	\$0.00	\$0.00
148	Togo	2	\$0.008	\$0.00	\$0.03	\$0.00	\$0.00
149	Turkey	1	\$0.073	\$0.08	\$0.03	\$0.09	\$0.06
150	Uganda	2	\$0.055	\$0.01	\$0.01	\$0.20	\$0.00

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151	Ukraine	0	\$0.023	\$0.02	\$0.02	\$0.05	\$0.00
152	United Arab Emirates	3	\$0.005	\$0.02	\$0.00	\$0.00	\$0.00
153	United Kingdom	1	\$0.213	\$0.22	\$0.19	\$0.22	\$0.22
154	Uruguay	6	\$0.108	\$0.13	\$0.10	\$0.20	\$0.00
155	Vatican City	1	\$0.185	\$0.20	\$0.19	\$0.20	\$0.15
156	Venezuela	6	\$0.153	\$0.15	\$0.15	\$0.15	\$0.16
157	Vietnam	7	\$0.008	\$0.00	\$0.02	\$0.01	\$0.00
158	Western Sahara	2	\$0.063	\$0.00	\$0.07	\$0.00	\$0.18
159	Yemen	3	\$0.013	\$0.01	\$0.02	\$0.02	\$0.00
160	Yugoslavia (new Serbia)	9	\$0.060	\$0.08	\$0.13	\$0.15	\$0.00
161	Zimbabwe	2	\$0.095	\$0.05	\$0.07	\$0.10	\$0.16

Notes:

\* Region Code:

- 1 Western Europe
- 2 Africa
- 3 Middle East
- 4 Caribbean
- 5 North and Central America
- 6 South America
- 7 Asia
- 8 Oceania
- 9 Eastern Europe
- 10 Other Regions

\*\* Average Rate is the simple average of mobile surcharges of AT&T, MCI, Sprint, and Verizon.

Table 3

Residential Mobile Surcharges (2004)  
Sorted by Region and by Average Surcharge within Region

No.	International Point	Region Code *	All Carriers Average Mobile Surcharge ** (2004)	AT&T Mobile Surcharge (7/23/04)	MCI Mobile Surcharge (10/01/04)	Sprint Mobile Surcharge (9/13/04)	Verizon Mobile Surcharge (9/13/04)
1	Switzerland	1	\$0.268	\$0.30	\$0.27	\$0.29	\$0.21
2	Netherlands	1	\$0.248	\$0.26	\$0.24	\$0.27	\$0.22
3	Austria	1	\$0.233	\$0.26	\$0.21	\$0.27	\$0.20
4	Greece	1	\$0.223	\$0.23	\$0.25	\$0.24	\$0.17
5	Portugal	1	\$0.218	\$0.23	\$0.21	\$0.24	\$0.19
6	France	1	\$0.215	\$0.24	\$0.20	\$0.23	\$0.19
7	United Kingdom	1	\$0.213	\$0.22	\$0.19	\$0.22	\$0.22
8	Liechtenstein	1	\$0.206	\$0.00	\$0.26	\$0.35	\$0.21
9	Sweden	1	\$0.203	\$0.24	\$0.19	\$0.22	\$0.16
10	Luxembourg	1	\$0.196	\$0.21	\$0.19	\$0.21	\$0.17
11	Belgium	1	\$0.193	\$0.19	\$0.19	\$0.21	\$0.18
12	Spain	1	\$0.193	\$0.20	\$0.19	\$0.20	\$0.18
13	Germany	1	\$0.190	\$0.18	\$0.20	\$0.22	\$0.16
14	Italy	1	\$0.185	\$0.20	\$0.19	\$0.20	\$0.15
15	Vatican City	1	\$0.185	\$0.20	\$0.19	\$0.20	\$0.15
16	Gibraltar	1	\$0.180	\$0.22	\$0.14	\$0.24	\$0.12
17	Iceland	1	\$0.173	\$0.17	\$0.18	\$0.19	\$0.15
18	Malta	1	\$0.173	\$0.23	\$0.22	\$0.24	\$0.00
19	Denmark	1	\$0.166	\$0.17	\$0.16	\$0.18	\$0.15
20	Ireland	1	\$0.166	\$0.17	\$0.13	\$0.18	\$0.18
21	Finland	1	\$0.163	\$0.17	\$0.15	\$0.19	\$0.14
22	Norway	1	\$0.160	\$0.16	\$0.17	\$0.17	\$0.14
23	Andorra	1	\$0.148	\$0.13	\$0.19	\$0.16	\$0.11
24	Monaco (include in France)	1	\$0.130	\$0.14	\$0.10	\$0.15	\$0.13
25	Turkey	1	\$0.073	\$0.09	\$0.03	\$0.09	\$0.06
26	Cyprus	1	\$0.066	\$0.04	\$0.03	\$0.06	\$0.13
27	Greenland	1	\$0.018	\$0.07	\$0.00	\$0.00	\$0.00
28	Faroe Islands (include in Denmark)	1	\$0.010	\$0.00	\$0.04	\$0.00	\$0.00
1	Mayotte (include in Comoros)	2	\$0.220	\$0.22	\$0.36	\$0.26	\$0.00
2	Reunion	2	\$0.165	\$0.22	\$0.15	\$0.29	\$0.00
3	South Africa	2	\$0.133	\$0.14	\$0.12	\$0.14	\$0.13
4	Namibia	2	\$0.098	\$0.12	\$0.10	\$0.17	\$0.00
5	Comoros	2	\$0.095	\$0.00	\$0.36	\$0.00	\$0.00
6	Zimbabwe	2	\$0.095	\$0.05	\$0.07	\$0.10	\$0.16
7	Nigeria	2	\$0.083	\$0.14	\$0.06	\$0.11	\$0.00
8	Morocco	2	\$0.080	\$0.09	\$0.07	\$0.10	\$0.06
9	Congo DRC	2	\$0.073	\$0.22	\$0.07	\$0.00	\$0.00
10	Western Sahara	2	\$0.063	\$0.00	\$0.07	\$0.00	\$0.18
11	Uganda	2	\$0.065	\$0.01	\$0.01	\$0.20	\$0.00
12	Canary Island	2	\$0.045	\$0.00	\$0.00	\$0.00	\$0.18
13	Ghana	2	\$0.045	\$0.06	\$0.03	\$0.06	\$0.03
14	Kenya	2	\$0.043	\$0.00	\$0.09	\$0.06	\$0.00
15	Angola	2	\$0.035	\$0.05	\$0.05	\$0.04	\$0.00
16	Cote d'Ivoire	2	\$0.033	\$0.05	\$0.04	\$0.04	\$0.00
17	Algeria	2	\$0.028	\$0.03	\$0.01	\$0.03	\$0.04
18	Senegal	2	\$0.028	\$0.04	\$0.03	\$0.04	\$0.00
19	Central African Republic	2	\$0.028	\$0.00	\$0.00	\$0.11	\$0.00
20	Egypt	2	\$0.020	\$0.00	\$0.00	\$0.04	\$0.04
21	Ethiopia	2	\$0.018	\$0.00	\$0.00	\$0.00	\$0.07
22	Mali	2	\$0.018	\$0.07	\$0.00	\$0.00	\$0.00

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23	Gambia, The	2	\$0.015	\$0.03	\$0.01	\$0.02	\$0.00
24	Liberia	2	\$0.015	\$0.06	\$0.00	\$0.00	\$0.00
25	Cameroon	2	\$0.013	\$0.03	\$0.00	\$0.02	\$0.00
26	Gabon	2	\$0.013	\$0.03	\$0.01	\$0.01	\$0.00
27	Mauritania	2	\$0.013	\$0.05	\$0.00	\$0.00	\$0.00
28	Rwanda	2	\$0.013	\$0.00	\$0.03	\$0.02	\$0.00
29	Swaziland	2	\$0.013	\$0.03	\$0.02	\$0.00	\$0.00
30	Botswana	2	\$0.010	\$0.00	\$0.01	\$0.03	\$0.00
31	Guinea	2	\$0.010	\$0.00	\$0.04	\$0.00	\$0.00
32	Madagascar	2	\$0.010	\$0.00	\$0.00	\$0.00	\$0.04
33	Congo	2	\$0.008	\$0.01	\$0.00	\$0.02	\$0.00
34	Eritrea (include in Ethiopia)	2	\$0.008	\$0.03	\$0.00	\$0.00	\$0.00
36	Sierra Leone	2	\$0.008	\$0.00	\$0.00	\$0.03	\$0.00
38	Togo	2	\$0.008	\$0.00	\$0.03	\$0.00	\$0.00
37	Burkina	2	\$0.005	\$0.00	\$0.02	\$0.00	\$0.00
38	Chad	2	\$0.005	\$0.00	\$0.02	\$0.00	\$0.00
39	Benin	2	\$0.003	\$0.00	\$0.01	\$0.00	\$0.00
40	Burundi	2	\$0.003	\$0.00	\$0.01	\$0.00	\$0.00
41	Lesotho	2	\$0.003	\$0.00	\$0.01	\$0.00	\$0.00
42	Sudan	2	\$0.003	\$0.00	\$0.01	\$0.00	\$0.00
1	Lebanon	3	\$0.085	\$0.09	\$0.08	\$0.09	\$0.08
2	Israel	3	\$0.060	\$0.06	\$0.07	\$0.06	\$0.06
3	Jordan	3	\$0.053	\$0.06	\$0.03	\$0.06	\$0.06
4	Qatar	3	\$0.048	\$0.00	\$0.10	\$0.04	\$0.06
5	Bahrain	3	\$0.028	\$0.07	\$0.02	\$0.00	\$0.02
6	Oman	3	\$0.025	\$0.00	\$0.10	\$0.00	\$0.00
7	Yemen	3	\$0.013	\$0.01	\$0.02	\$0.02	\$0.00
8	Syria	3	\$0.010	\$0.00	\$0.04	\$0.00	\$0.00
9	Kuwait	3	\$0.006	\$0.02	\$0.00	\$0.00	\$0.00
10	United Arab Emirates	3	\$0.005	\$0.02	\$0.00	\$0.00	\$0.00
11	Saudi Arabia	3	\$0.003	\$0.01	\$0.00	\$0.00	\$0.00
1	Guadeloupe	4	\$0.175	\$0.22	\$0.00	\$0.28	\$0.20
2	Haiti	4	\$0.163	\$0.20	\$0.10	\$0.16	\$0.19
3	Martinique (French Overseas Dept.)	4	\$0.155	\$0.22	\$0.18	\$0.22	\$0.00
4	Jamaica	4	\$0.085	\$0.07	\$0.08	\$0.08	\$0.10
5	Cayman Islands	4	\$0.070	\$0.08	\$0.07	\$0.13	\$0.00
6	Dominica	4	\$0.070	\$0.09	\$0.08	\$0.11	\$0.00
7	Barbados	4	\$0.068	\$0.10	\$0.07	\$0.10	\$0.00
8	Aruba	4	\$0.065	\$0.11	\$0.06	\$0.09	\$0.00
9	Grenada	4	\$0.065	\$0.08	\$0.08	\$0.10	\$0.00
10	Dominican Republic	4	\$0.055	\$0.07	\$0.07	\$0.08	\$0.00
11	Saint Lucia	4	\$0.055	\$0.09	\$0.04	\$0.09	\$0.00
12	Netherlands Antilles	4	\$0.045	\$0.04	\$0.05	\$0.04	\$0.05
13	St. Vincent and the Grenadines	4	\$0.045	\$0.09	\$0.00	\$0.09	\$0.00
14	Bahamas, The	4	\$0.003	\$0.00	\$0.01	\$0.00	\$0.00
1	St. Pierre and Miquelon	5	\$0.140	\$0.22	\$0.05	\$0.20	\$0.00
2	Belize	5	\$0.080	\$0.12	\$0.08	\$0.12	\$0.00
3	Panama	5	\$0.063	\$0.08	\$0.07	\$0.08	\$0.02
4	Nicaragua	5	\$0.050	\$0.01	\$0.11	\$0.08	\$0.00
5	El Salvador	5	\$0.040	\$0.05	\$0.04	\$0.06	\$0.01

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6	Guatemala	5	\$0.025	\$0.03	\$0.01	\$0.03	\$0.03
7	Honduras	5	\$0.005	\$0.02	\$0.00	\$0.00	\$0.00
8	Costa Rica	5	\$0.003	\$0.00	\$0.00	\$0.01	\$0.00
1	Peru	6	\$0.268	\$0.26	\$0.25	\$0.27	\$0.25
2	Argentina	6	\$0.170	\$0.18	\$0.17	\$0.17	\$0.16
3	French Guiana	6	\$0.166	\$0.22	\$0.15	\$0.29	\$0.00
4	Chile	6	\$0.180	\$0.16	\$0.16	\$0.17	\$0.15
5	Venezuela	6	\$0.153	\$0.15	\$0.15	\$0.15	\$0.16
6	Brazil	6	\$0.123	\$0.13	\$0.10	\$0.14	\$0.12
7	Uruguay	6	\$0.108	\$0.13	\$0.10	\$0.20	\$0.00
8	Paraguay	6	\$0.070	\$0.09	\$0.03	\$0.09	\$0.07
9	Colombia	6	\$0.063	\$0.15	\$0.00	\$0.08	\$0.04
10	Bolivia	6	\$0.080	\$0.08	\$0.00	\$0.08	\$0.08
11	Ecuador	6	\$0.018	\$0.02	\$0.00	\$0.02	\$0.03
1	Japan	7	\$0.140	\$0.14	\$0.14	\$0.14	\$0.14
2	Indonesia	7	\$0.078	\$0.05	\$0.07	\$0.08	\$0.11
3	Taiwan	7	\$0.073	\$0.14	\$0.05	\$0.05	\$0.05
4	Philippines	7	\$0.048	\$0.05	\$0.04	\$0.05	\$0.05
5	Malaysia	7	\$0.038	\$0.05	\$0.02	\$0.05	\$0.03
6	Korea, South	7	\$0.038	\$0.04	\$0.04	\$0.04	\$0.03
7	Bhutan	7	\$0.028	\$0.00	\$0.11	\$0.00	\$0.00
8	China	7	\$0.023	\$0.03	\$0.00	\$0.04	\$0.02
9	Sri Lanka	7	\$0.023	\$0.02	\$0.07	\$0.00	\$0.00
10	Hong Kong	7	\$0.020	\$0.04	\$0.00	\$0.04	\$0.00
11	Brunei	7	\$0.015	\$0.02	\$0.00	\$0.02	\$0.02
12	Afghanistan	7	\$0.013	\$0.00	\$0.04	\$0.01	\$0.00
13	Nepal	7	\$0.013	\$0.00	\$0.00	\$0.05	\$0.00
14	India	7	\$0.008	\$0.01	\$0.00	\$0.01	\$0.01
15	Vietnam	7	\$0.008	\$0.00	\$0.02	\$0.01	\$0.00
16	Bangladesh	7	\$0.005	\$0.00	\$0.00	\$0.00	\$0.02
17	Myanmar	7	\$0.005	\$0.02	\$0.00	\$0.00	\$0.00
18	Singapore	7	\$0.005	\$0.02	\$0.00	\$0.00	\$0.00
19	Thailand	7	\$0.005	\$0.02	\$0.00	\$0.00	\$0.00
20	Laos	7	\$0.003	\$0.00	\$0.00	\$0.01	\$0.00
1	New Zealand	8	\$0.228	\$0.24	\$0.22	\$0.27	\$0.18
2	Australia	8	\$0.183	\$0.18	\$0.22	\$0.18	\$0.15
3	Samoa (Western)	8	\$0.073	\$0.08	\$0.07	\$0.14	\$0.00
4	American Samoa	8	\$0.003	\$0.01	\$0.00	\$0.00	\$0.00
1	Estonia	9	\$0.223	\$0.22	\$0.21	\$0.24	\$0.22
2	Poland	9	\$0.183	\$0.19	\$0.18	\$0.20	\$0.20
3	Slovenia	9	\$0.188	\$0.20	\$0.18	\$0.20	\$0.09
4	Bulgaria	9	\$0.163	\$0.20	\$0.14	\$0.21	\$0.10
5	Hungary	9	\$0.163	\$0.16	\$0.15	\$0.20	\$0.14
6	Slovakia	9	\$0.143	\$0.13	\$0.14	\$0.22	\$0.08
7	Czech Republic	9	\$0.128	\$0.13	\$0.13	\$0.14	\$0.11
8	Romania	9	\$0.120	\$0.16	\$0.13	\$0.16	\$0.03
9	Latvia	9	\$0.103	\$0.11	\$0.08	\$0.12	\$0.10
10	Croatia	9	\$0.088	\$0.15	\$0.00	\$0.16	\$0.08
11	T.F.Y.R Macedonia (include Serbia)	9	\$0.085	\$0.10	\$0.11	\$0.12	\$0.05
12	Georgia	9	\$0.083	\$0.09	\$0.10	\$0.09	\$0.09

No.	International Point	Region Code *	All Carriers Average Mobile Surcharge ** (2004)	AT&T Mobile Surcharge (7/23/04)	MCI Mobile Surcharge (10/01/04)	Sprint Mobile Surcharge (8/13/04)	Verizon Mobile Surcharge (8/13/04)
13	Armenia	9	\$0.090	\$0.13	\$0.12	\$0.11	\$0.00
14	Yugoslavia (new Serbia)	9	\$0.060	\$0.06	\$0.13	\$0.15	\$0.00
15	Lithuania	9	\$0.078	\$0.06	\$0.06	\$0.06	\$0.06
16	Bosnia and Herzegovina	9	\$0.045	\$0.04	\$0.06	\$0.06	\$0.00
17	Albania	9	\$0.040	\$0.05	\$0.06	\$0.05	\$0.00
18	Moldova	9	\$0.028	\$0.00	\$0.03	\$0.06	\$0.00
19	Ukraine	9	\$0.023	\$0.02	\$0.02	\$0.05	\$0.00
20	Kazakhstan	9	\$0.020	\$0.04	\$0.00	\$0.04	\$0.00
21	Azerbaijan	9	\$0.018	\$0.03	\$0.02	\$0.02	\$0.00
22	Russia	9	\$0.003	\$0.01	\$0.00	\$0.00	\$0.00
1	Antarctica	10	\$0.055	\$0.00	\$0.22	\$0.00	\$0.00

Notes:

\* Region Code:

- 1 Western Europe
- 2 Africa
- 3 Middle East
- 4 Caribbean
- 5 North and Central America
- 6 South America
- 7 Asia
- 8 Oceania
- 9 Eastern Europe
- 10 Other Regions

\*\* Average Rate is the simple average of mobile surcharges of AT&T, MCI, Sprint, and Verizon.

Table 4

## Estimated Total Surcharges Paid by U.S. Customers (by country)

No.	International Point	Total Number of Outgoing Minutes	2004 U.S. Carriers Average Mobile Surcharge ** (\$ / Minute)	Mobile subscribers 2002	Fixed Main Telephone subscribers 2002	Mobile Ratio 2002	Adjusted Mobile Termination Ratio 2002	Estimated Outgoing Minutes Terminating on Mobile Phone	2004 Estimated Residential Mobile Surcharge (\$)
1	Afghanistan	11,825,006	\$0.013	12,000	33,050	26.64%	13.32%	1,574,918	\$19,686
2	Albania	49,516,320	\$0.040	800,000	220,000	78.43%	39.22%	19,418,165	\$776,727
3	Algeria	24,270,700	\$0.028	300,000	1,880,000	13.76%	6.88%	1,670,002	\$45,925
4	American Samoa	10,656,552	\$0.003	0	0	n.a.	n.a.	n.a.	n.a.
5	Andorra	3,842,051	\$0.148	23,543	35,000	40.21%	20.11%	772,538	\$113,949
6	Angola	26,160,185	\$0.035	130,000	85,000	60.47%	30.23%	7,908,983	\$276,811
7	Antarctica	23,444	\$0.055	0	0	n.a.	n.a.	n.a.	n.a.
8	Argentina	115,803,284	\$0.170	6,500,000	8,008,446	44.80%	22.40%	25,939,011	\$4,408,632
9	Armenia	19,891,082	\$0.090	44,307	531,456	7.70%	3.85%	765,345	\$68,881
10	Aruba	26,068,007	\$0.065	53,000	37,132	58.80%	29.40%	7,884,338	\$498,182
11	Australia	499,653,257	\$0.183	12,579,000	10,590,000	54.29%	27.15%	135,836,808	\$24,753,717
12	Austria	57,034,670	\$0.233	6,760,000	3,810,000	63.95%	31.98%	18,238,144	\$4,240,369
13	Azerbaijan	7,229,141	\$0.018	870,000	989,200	46.79%	23.40%	1,991,414	\$29,600
14	Bahamas, The	104,481,538	\$0.003	121,759	126,556	49.03%	24.52%	25,615,765	\$84,039
15	Bahrain	12,676,639	\$0.028	388,990	175,446	68.92%	34.46%	4,368,153	\$120,124
16	Bangladesh	132,124,897	\$0.005	1,075,000	682,000	61.18%	30.59%	40,419,540	\$202,098
17	Barbados	56,003,892	\$0.068	53,111	128,958	29.17%	14.59%	8,168,455	\$551,371
18	Belgium	172,852,135	\$0.193	8,135,512	5,132,427	81.32%	30.88%	52,983,938	\$10,201,333
19	Belize	29,728,232	\$0.080	52,500	31,840	62.40%	31.20%	9,274,615	\$741,989
20	Benin	3,106,577	\$0.003	125,000	59,298	67.82%	33.91%	1,053,517	\$2,634
21	Bhutan	289,814	\$0.028	0	19,615	n.a.	n.a.	n.a.	n.a.
22	Bolivia	46,417,847	\$0.060	872,676	563,941	60.75%	30.37%	14,098,309	\$845,899
23	Bosnia and Herzegovina	71,996,989	\$0.045	376,087	490,225	43.41%	21.71%	15,627,791	\$703,251
24	Botswana	5,348,842	\$0.010	415,000	142,600	74.43%	37.21%	1,989,723	\$19,897
25	Brazil	797,490,330	\$0.123	34,881,000	38,810,000	47.33%	23.87%	188,742,589	\$23,120,987
26	Brunei	3,986,312	\$0.015	137,000	88,440	60.77%	30.39%	1,214,280	\$18,214
27	Bulgaria	50,667,809	\$0.163	1,550,000	2,913,915	34.72%	17.36%	8,798,627	\$1,428,452
28	Burkina	3,259,471	\$0.005	75,000	57,619	58.55%	28.28%	921,684	\$4,608
29	Burundi	656,625	\$0.003	30,687	20,000	60.54%	30.27%	198,767	\$497
30	Cameroon	31,945,112	\$0.013	563,000	101,442	84.73%	42.37%	13,533,988	\$169,175
31	Canary Island	718	\$0.045	0	0	n.a.	n.a.	n.a.	n.a.
32	Cayman Islands	35,200,872	\$0.070	17,000	38,000	30.91%	15.45%	5,440,150	\$380,611
33	Central African Republic	414,936	\$0.028	11,000	8,917	55.23%	27.61%	114,583	\$3,151
34	Chad	950,250	\$0.005	34,200	11,000	75.68%	37.83%	369,497	\$1,797
35	Chile	234,358,872	\$0.160	6,445,698	3,467,202	65.02%	32.51%	76,193,975	\$12,191,036

No.	International Point	Total Number of Outgoing Minutes	2004 U.S. Carriers Average Mobile Surchage ** (\$ / Minute)	Mobile subscribers 2002	Fixed Main Telephone subscribers 2002	Mobile Ratio 2002	Adjusted Mobile Termination Ratio 2002	Estimated Outgoing Minutes Terminating on Mobile Phone	2004 Estimated Residential Mobile Surchage (\$)
36	China	395,692,634	\$0.023	206,820,000	214,420,000	49.07%	24.54%	97,090,552	\$2,184,537
37	Colombia	357,677,530	\$0.063	4,597,000	7,768,000	37.18%	18.59%	66,496,569	\$4,156,161
38	Comoros	452,506	\$0.095	0	10,258	n.a.	n.a.	n.a.	n.a.
39	Congo	4,720,166	\$0.008	221,800	22,000	90.98%	45.49%	2,147,109	\$16,103
40	Congo DRC	26,816,148	\$0.073	150,000	20,000	88.24%	44.12%	11,830,854	\$857,722
41	Costa Rica	154,044,963	\$0.003	528,047	1,037,988	33.72%	16.86%	25,971,028	\$64,928
42	Cote d'Ivoire	29,794,402	\$0.033	1,027,068	338,129	75.34%	37.67%	11,223,911	\$364,777
43	Croatia	47,533,780	\$0.098	2,278,000	1,879,000	54.80%	27.40%	13,024,044	\$1,269,844
44	Cyprus	21,805,542	\$0.085	417,933	427,427	49.44%	24.72%	5,390,163	\$350,361
45	Czech Republic	33,899,195	\$0.128	8,610,177	3,860,843	69.04%	34.62%	11,702,253	\$1,492,037
46	Denmark	61,075,439	\$0.185	4,478,145	3,739,247	54.50%	27.25%	16,641,817	\$2,745,900
47	Dominica	21,373,006	\$0.070	9,358	25,410	26.91%	13.48%	2,875,882	\$201,312
48	Dominican Republic	1,005,737,128	\$0.055	1,270,082	955,145	57.08%	28.54%	287,019,846	\$15,786,092
49	Ecuador	325,596,955	\$0.018	1,560,861	1,426,188	52.25%	26.13%	85,089,175	\$1,488,711
50	Egypt	291,766,747	\$0.020	4,412,000	6,688,367	39.75%	19.87%	57,983,438	\$1,159,889
51	El Salvador	689,294,232	\$0.040	888,818	667,699	57.10%	28.55%	191,093,564	\$7,643,743
52	Eritrea (include in Ethiopia)	n.a.	\$0.008	0	35,897	n.a.	n.a.	n.a.	n.a.
53	Estonia	8,250,439	\$0.223	881,000	475,000	64.97%	32.49%	2,680,178	\$596,339
54	Ethiopia	22,867,778	\$0.018	50,369	368,199	12.03%	6.02%	1,375,312	\$24,068
55	Faroe Islands (include in Denmark)	n.a.	\$0.010	16,971	24,952	40.48%	20.24%	0	\$0
56	Finland	47,442,013	\$0.183	4,400,000	2,850,000	60.89%	30.34%	14,396,197	\$2,339,382
57	France	653,486,177	\$0.215	38,585,300	33,928,744	53.21%	26.61%	173,862,598	\$37,380,459
58	French Guiana	2,276,079	\$0.185	138,200	51,000	73.04%	36.52%	831,274	\$137,180
59	Gabon	2,739,821	\$0.013	258,087	37,233	87.39%	43.70%	1,197,197	\$14,985
60	Gambia, The	10,809,018	\$0.015	55,085	35,029	61.13%	30.56%	3,303,674	\$49,555
61	Georgia	8,841,778	\$0.093	503,619	648,480	43.71%	21.86%	2,151,077	\$198,978
62	Germany	1,057,377,632	\$0.190	59,200,000	53,720,000	52.43%	26.21%	277,173,024	\$52,662,875
63	Ghana	102,742,601	\$0.045	183,773	242,122	44.45%	22.23%	22,836,828	\$1,027,648
64	Gibraltar	2,599,291	\$0.180	9,787	24,512	28.56%	14.28%	362,559	\$65,259
65	Greece	172,904,024	\$0.223	9,240,000	5,607,726	62.23%	31.12%	53,800,802	\$11,970,634
66	Greenland	423,879	\$0.018	16,747	26,216	38.96%	19.49%	82,614	\$1,446
67	Grenada	30,581,868	\$0.085	7,553	33,544	18.38%	9.19%	2,806,402	\$182,546
68	Guadeloupe	6,012,009	\$0.175	323,500	210,000	60.64%	30.32%	1,822,780	\$318,983
69	Guatemala	909,056,312	\$0.025	1,134,007	755,956	60.00%	30.00%	272,723,918	\$6,818,098
70	Guinea	24,102,842	\$0.010	55,670	25,490	68.59%	34.30%	8,266,420	\$82,684

No.	International Point	Total Number of Outgoing Minutes	2004 U.S. Carriers Average Mobile Surcharge ** (\$ / Minute)	Mobile subscribers 2002	Fixed Main Telephone subscribers 2002	Mobile Ratio 2002	Adjusted Mobile Termination Ratio 2002	Estimated Outgoing Minutes Terminating on Mobile Phone	2004 Estimated Residential Mobile Surcharge (\$)
71	Haiti	107,801,054	\$0.163	140,000	130,000	51.85%	25.93%	27,948,421	\$4,541,618
72	Honduras	370,723,997	\$0.005	326,508	322,497	50.31%	25.15%	93,253,789	\$466,269
73	Hong Kong	171,185,017	\$0.020	6,297,541	3,842,943	62.10%	31.06%	53,155,484	\$1,063,110
74	Hungary	76,745,117	\$0.163	6,561,998	3,686,443	64.15%	32.08%	24,817,898	\$4,000,376
75	Iceland	9,211,915	\$0.173	280,000	190,550	57.71%	28.85%	2,867,971	\$458,500
76	India	1,512,183,273	\$0.008	12,687,637	41,420,000	23.45%	11.72%	177,295,050	\$1,329,713
77	Indonesia	114,758,583	\$0.078	11,700,000	7,632,558	60.52%	30.28%	34,725,755	\$2,691,248
78	Ireland	268,760,232	\$0.165	2,989,000	1,860,000	61.48%	30.74%	82,005,708	\$13,530,942
79	Israel	309,475,905	\$0.080	6,334,000	3,100,000	67.14%	33.57%	103,891,265	\$6,233,476
80	Italy	722,740,708	\$0.185	52,316,000	27,451,950	65.59%	32.79%	237,005,607	\$43,848,037
81	Jamaica	524,003,307	\$0.085	635,000	532,100	54.41%	27.20%	142,550,810	\$12,116,819
82	Japan	831,589,798	\$0.140	79,083,272	74,567,000	51.47%	25.73%	214,003,072	\$29,980,430
83	Jordan	39,224,870	\$0.053	886,000	680,000	58.02%	28.01%	10,988,008	\$576,765
84	Kazakhstan	22,760,242	\$0.020	582,000	1,939,828	23.08%	11.54%	2,626,569	\$52,531
85	Kenya	38,047,841	\$0.043	1,325,222	328,104	80.15%	40.08%	15,248,807	\$648,066
86	Korea, South	394,815,139	\$0.038	32,342,000	23,257,000	58.17%	29.09%	114,832,202	\$4,306,208
87	Kuwait	37,735,372	\$0.005	877,920	472,414	65.02%	32.51%	12,268,831	\$61,334
88	Laos	2,131,033	\$0.003	55,180	61,910	47.12%	23.56%	502,041	\$1,255
89	Latvia	10,543,388	\$0.103	917,198	701,211	56.67%	28.34%	2,987,614	\$308,230
90	Lebanon	113,807,082	\$0.085	775,104	678,840	53.31%	28.66%	30,335,530	\$2,578,520
91	Lesotho	844,831	\$0.003	92,000	34,038	73.00%	36.50%	308,342	\$771
92	Liberia	1,738,980	\$0.015	2,000	6,800	22.73%	11.36%	197,384	\$2,981
93	Liechtenstein	3,883,118	\$0.205	15,500	19,923	43.76%	21.88%	849,566	\$174,161
94	Lithuania	30,258,730	\$0.078	1,631,573	935,869	63.55%	31.77%	9,613,749	\$745,088
95	Luxembourg	19,085,499	\$0.185	455,000	348,763	56.75%	28.37%	5,415,504	\$1,058,023
96	Madagascar	1,718,191	\$0.010	147,500	58,399	71.84%	35.82%	615,431	\$6,154
97	Malaysia	119,041,295	\$0.038	8,500,000	4,710,000	64.35%	32.17%	38,298,676	\$1,436,200
98	Mali	7,927,484	\$0.018	45,340	49,863	47.62%	23.81%	1,887,714	\$33,035
99	Malta	11,829,364	\$0.173	239,416	207,269	53.60%	26.80%	3,118,576	\$537,809
100	Martinique (French Overseas Dept.)	4,457,107	\$0.155	319,900	172,000	65.03%	32.52%	1,449,307	\$224,643
101	Mauritania	8,392,509	\$0.013	245,738	32,005	68.48%	44.24%	3,712,710	\$46,409
102	Mayotte (include in Comoros)	n.a.	\$0.220	21,700	10,000	68.45%	34.23%	0	\$0
103	Moldova	10,048,493	\$0.028	225,000	639,165	26.04%	13.02%	1,307,887	\$35,987
104	Monaco (include in France)	n.a.	\$0.130	0	0	n.a.	n.a.	n.a.	n.a.
105	Morocco	88,839,821	\$0.080	6,198,870	1,127,447	64.61%	42.31%	37,583,859	\$3,008,709

No.	International Point	Total Number of Outgoing Minutes	2004 U.S. Carriers Average Mobile Surcharge ** (\$ / Minute)	Mobile subscribers 2002	Fixed Main Telephone subscribers 2002	Mobile Ratio 2002	Adjusted Mobile Termination Ratio 2002	Estimated Outgoing Minutes Terminating on Mobile Phone	2004 Estimated Residential Surcharge (\$)
106	Myanmar	20,822,229	\$0.005	13,780	295,234	4.46%	2.23%	484,268	\$2,321
107	Namibia	2,931,880	\$0.098	150,000	117,398	56.10%	28.05%	822,336	\$80,178
108	Nepal	39,106,319	\$0.013	21,881	327,873	6.26%	3.13%	1,223,967	\$15,300
109	Netherlands	404,455,781	\$0.248	11,700,000	10,003,000	53.91%	26.95%	109,020,242	\$26,962,510
110	Netherlands Antilles	58,786,521	\$0.045		81,000	n.a.	n.a.	n.a.	n.a.
111	New Zealand	90,473,600	\$0.228	2,436,000	1,765,000	57.99%	28.99%	26,231,099	\$5,967,575
112	Nicaragua	58,307,399	\$0.050	239,927	171,632	58.30%	29.15%	16,412,793	\$820,840
113	Nigeria	98,340,650	\$0.083	1,833,060	702,000	69.94%	34.97%	34,388,020	\$2,837,012
114	Norway	95,666,625	\$0.180	3,842,000	3,325,000	53.81%	26.80%	25,641,912	\$4,102,708
115	Oman	14,985,987	\$0.025	324,540	235,307	57.97%	28.98%	4,346,543	\$108,684
116	Panama	95,444,515	\$0.063	475,354	376,499	55.80%	27.90%	26,630,142	\$1,864,384
117	Paraguay	23,049,183	\$0.070	1,887,018	273,216	85.82%	42.98%	9,801,739	\$683,122
118	Peru	181,802,008	\$0.256	2,300,000	2,022,285	53.21%	26.81%	42,996,510	\$11,071,801
119	Philippines	2,275,450,208	\$0.048	14,216,231	3,338,926	80.88%	40.49%	921,333,993	\$43,783,365
120	Poland	270,475,737	\$0.183	14,000,000	11,400,000	55.12%	27.56%	74,540,557	\$14,348,057
121	Portugal	127,919,621	\$0.218	8,528,900	4,361,000	66.17%	33.08%	42,320,486	\$9,204,708
122	Qatar	15,604,984	\$0.048	268,703	176,519	60.17%	30.09%	4,695,047	\$223,015
123	Reunion	788,525	\$0.185	489,800	300,000	82.02%	31.01%	244,505	\$40,343
124	Romania	177,350,611	\$0.120	3,845,118	4,118,000	48.30%	24.15%	42,829,025	\$5,139,483
125	Russia	148,786,778	\$0.003	17,800,000	35,700,000	33.27%	16.64%	24,751,445	\$61,879
126	Rwanda	1,250,772	\$0.013	90,000	21,500	80.72%	40.36%	504,796	\$6,310
127	Saint Lucia	32,987,358	\$0.055	2,700	50,000	5.12%	2.56%	845,027	\$46,476
128	Samos (Western)	7,289,934	\$0.073	3,200	10,280	23.77%	11.89%	894,182	\$82,853
129	Saudi Arabia	179,471,419	\$0.003	2,528,849	3,232,825	43.89%	21.94%	39,383,276	\$98,458
130	Senegal	37,817,201	\$0.028	563,427	224,623	71.13%	35.57%	13,448,688	\$389,868
131	Sierra Leone	19,258,516	\$0.008	26,895	22,745	54.18%	27.09%	5,216,599	\$39,124
132	Singapore	108,979,876	\$0.005	3,295,100	1,930,200	63.08%	31.53%	34,361,624	\$171,808
133	Slovakia	30,631,242	\$0.143	2,923,383	1,402,725	67.58%	33.79%	10,349,586	\$1,474,816
134	Slovenia	12,186,019	\$0.168	1,687,000	811,435	67.26%	33.63%	4,101,533	\$687,007
135	South Africa	75,585,331	\$0.133	12,081,000	4,895,000	71.17%	36.58%	28,888,775	\$3,584,088
136	Spain	367,386,796	\$0.183	33,475,000	18,705,600	64.15%	32.08%	117,847,516	\$22,685,647
137	Sri Lanka	77,064,823	\$0.023	931,580	883,108	51.34%	25.67%	19,785,958	\$445,184
138	St. Pierre and Miquelon	347,257	\$0.140	0	0	n.a.	n.a.	n.a.	n.a.
139	St. Vincent and the Grenadines	31,481,241	\$0.045	7,482	26,078	22.32%	11.16%	3,510,688	\$157,981
140	Sudan	7,488,473	\$0.003	180,778	453,000	29.83%	14.82%	1,109,572	\$2,774

No.	International Point	Total Number of Outgoing Minutes	2004 U.S. Carriers Average Mobile Surcharge ** (\$ / Minute)	Mobile subscribers 2002	Fixed Main Telephone subscribers 2002	Mobile Ratio 2002	Adjusted Mobile Termination Ratio 2002	Estimated Outgoing Minutes Terminating on Mobile Phone	2004 Estimated Residential Mobile Surcharge (\$)
141	Swaziland	2,020,822	\$0.013	63,000	32,000	66.32%	33.18%	670,062	\$8,378
142	Sweden	217,457,819	\$0.203	7,915,000	6,441,000	55.13%	27.57%	59,946,261	\$12,139,118
143	Switzerland	270,049,038	\$0.288	6,734,000	5,335,000	51.80%	25.90%	69,945,848	\$18,710,514
144	Syria	31,004,720	\$0.010	200,000	1,710,000	10.47%	5.24%	1,623,284	\$18,233
145	T.F.Y.R Macedonia (include Serbia)	n.a.	\$0.098	223,275	538,507	29.31%	14.65%	0	\$0
146	Taiwan	261,460,048	\$0.073	23,905,406	13,099,418	64.60%	32.30%	84,459,089	\$8,123,284
147	Thailand	146,370,816	\$0.005	16,117,000	6,042,491	72.73%	36.37%	63,229,003	\$266,145
148	Togo	7,046,414	\$0.008	120,000	48,384	71.27%	36.63%	2,510,837	\$18,831
149	Turkey	258,066,178	\$0.073	23,374,364	18,914,866	55.27%	27.64%	71,319,705	\$5,170,679
150	Uganda	23,256,127	\$0.066	393,310	54,976	87.74%	43.87%	10,201,806	\$681,088
151	Ukraine	126,684,376	\$0.023	2,224,600	10,869,600	17.26%	8.63%	11,060,425	\$249,536
152	United Arab Emirates	111,450,454	\$0.005	2,428,071	1,093,654	68.66%	34.47%	38,420,038	\$182,100
153	United Kingdom	2,179,661,538	\$0.213	49,921,000	35,280,000	58.59%	29.29%	638,479,091	\$135,676,807
154	Uruguay	44,142,773	\$0.108	519,991	948,833	36.49%	17.73%	7,825,936	\$841,288
155	Vatican City	n.a.	\$0.185	0	0	n.a.	n.a.	n.a.	n.a.
156	Venezuela	134,040,425	\$0.153	6,463,581	2,841,771	69.46%	34.73%	46,552,797	\$7,099,302
157	Vietnam	252,150,889	\$0.008	1,902,388	5,587,140	26.47%	12.73%	32,109,687	\$240,823
158	Western Sahara	0	\$0.063	0	0	n.a.	n.a.	n.a.	n.a.
159	Yemen	40,601,310	\$0.013	152,000	423,182	26.43%	13.21%	5,364,823	\$67,062
160	Yugoslavia (new Serbia)	108,593,395	\$0.090	2,750,397	2,492,963	62.45%	26.23%	28,481,247	\$2,563,312
161	Zimbabwe	9,257,097	\$0.098	353,000	287,854	55.08%	27.54%	2,549,532	\$242,206
	<b>Total</b>	<b>24,531,534,764</b>		<b>967,248,790</b>	<b>846,442,214</b>	<b>53.07%</b>		<b>6,754,697,482</b>	<b>\$722,866,674</b>

Notes:

\* Region Code:

- 1 Western Europe
- 2 Africa
- 3 Middle East
- 4 Caribbean
- 5 North and Central America
- 6 South America
- 7 Asia
- 8 Oceania
- 9 Eastern Europe
- 10 Other Regions

\*\* Average Rate is the simple average of mobile surcharges of AT&T, MCI, Sprint, and Verizon.

We derived estimates of U.S. outgoing minutes terminated on mobile phones for each international route. We had to estimate this number, because public sources for these types of data do not exist. Our estimate was based on three data sources: (1) total U.S. outgoing minutes terminated on all phones for each international route (*total number of outgoing minutes*);<sup>1</sup> (2) estimates of the ratio of mobile phones to total phones for each international route (*mobile ratio*);<sup>2</sup> and (3) anecdotal information that only about 25 percent of total U.S. outgoing minutes terminates on mobile phones abroad.

As indicated by the *mobile ratio*, about 53 percent of outgoing minutes terminates on mobile phones. Thus we adjusted the mobile ratio for each route by a 50 percent factor to get an *adjusted mobile termination ratio* so that when the *total number of outgoing minutes* was multiplied by the *adjusted mobile termination ratio* and summed, the total number of outgoing minutes terminated on mobile phones equaled about 25 percent of the *total number of outgoing minutes*.<sup>3</sup>

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<sup>1</sup> FCC Section 43.61 Report entitled *2002 International Traffic Data*.

<sup>2</sup> ITU World Telecommunication Indicators Database (7<sup>th</sup> ed.), 2003.

<sup>3</sup> For those 161 countries that have surcharges, the ratio is slightly higher than 25% (approximately, 28%).

**Table 5**  
**Estimated Total Surcharges Payment from U.S. Customers**  
**Sorted by Estimated Surcharges**

No.	International Point	Total Number of Outgoing Minutes	2004 All Carriers Average Res. Mobile Surcharge (\$ / Minute)	Mobile subscribers 2002	Fixed Main Telephone subscribers 2002	Mobile Ratio 2002	Adjusted Mobile Termination Ratio 2002	Estimated Outgoing Minutes Terminating on Mobile Phone	2004 Estimated Residential Mobile Surcharges (\$)	% of Total Surcharges	Cum % of Total Surcharge
1	United Kingdom	2,179,661,538	\$0.213	49,921,000	35,290,000	58.59%	29.29%	638,479,091	\$135,876,807	18.77%	18.77%
2	Germany	1,057,377,632	\$0.190	59,200,000	53,720,000	82.43%	28.21%	277,173,024	\$52,862,875	7.29%	26.05%
3	Italy	722,740,706	\$0.185	52,316,000	27,451,950	65.59%	32.79%	237,005,807	\$43,846,037	6.07%	32.12%
4	Philippines	2,275,450,208	\$0.048	14,216,231	3,338,828	80.96%	40.49%	921,333,993	\$43,763,365	6.05%	38.17%
5	France	653,486,177	\$0.215	38,585,300	33,928,744	53.21%	28.61%	173,862,588	\$37,360,458	5.17%	43.35%
6	Japan	831,569,796	\$0.140	79,083,272	74,567,000	51.47%	25.73%	214,003,072	\$29,960,430	4.14%	47.49%
7	Netherlands	404,455,781	\$0.248	11,700,000	10,003,000	53.91%	28.95%	109,020,242	\$26,962,510	3.73%	51.22%
8	Australia	499,653,257	\$0.183	12,579,000	10,590,000	54.29%	27.15%	135,638,808	\$24,753,717	3.42%	54.65%
9	Brazil	797,490,330	\$0.123	34,881,999	38,810,000	47.33%	23.67%	188,742,589	\$23,120,967	3.20%	57.85%
10	Spain	367,399,798	\$0.193	33,475,000	18,705,800	64.15%	32.08%	117,847,518	\$22,885,847	3.14%	60.98%
11	Switzerland	270,049,038	\$0.288	5,734,000	5,335,000	51.80%	25.90%	69,945,848	\$18,710,514	2.58%	63.57%
12	Dominican Republic	1,005,737,128	\$0.055	1,270,082	955,145	57.08%	28.54%	287,019,848	\$15,786,092	2.18%	65.76%
13	Poland	270,475,737	\$0.193	14,000,000	11,400,000	55.12%	27.58%	74,540,557	\$14,349,057	1.99%	67.74%
14	Ireland	286,780,232	\$0.185	2,969,000	1,860,000	61.48%	30.74%	82,005,708	\$13,530,942	1.87%	69.61%
15	Chile	234,358,872	\$0.180	6,445,898	3,487,202	65.02%	32.51%	76,193,875	\$12,191,036	1.69%	71.30%
16	Sweden	217,457,819	\$0.203	7,915,000	6,441,000	55.13%	27.57%	59,948,281	\$12,138,118	1.68%	72.98%
17	Jamaica	524,003,307	\$0.085	635,000	532,100	54.41%	27.20%	142,550,810	\$12,118,818	1.68%	74.65%
18	Greece	172,904,024	\$0.223	9,240,000	5,807,728	62.23%	31.12%	53,800,802	\$11,970,634	1.66%	76.31%
19	Peru	161,602,008	\$0.256	2,300,000	2,022,285	53.21%	26.61%	42,986,510	\$11,071,801	1.53%	77.84%
20	Belgium	172,852,135	\$0.193	9,135,512	5,132,427	81.32%	30.66%	52,993,938	\$10,201,333	1.41%	79.25%
21	Portugal	127,919,821	\$0.218	8,528,900	4,381,000	66.17%	33.08%	42,320,488	\$9,204,708	1.27%	80.53%
22	El Salvador	669,294,232	\$0.040	886,818	667,699	57.10%	28.55%	191,093,564	\$7,843,743	1.06%	81.59%
23	Venezuela	134,040,425	\$0.153	6,483,581	2,841,771	69.46%	34.73%	46,552,797	\$7,099,302	0.96%	82.57%
24	Guatemala	906,056,312	\$0.025	1,134,007	755,956	60.00%	30.00%	272,723,918	\$6,818,098	0.94%	83.51%
25	Israel	309,475,905	\$0.080	6,334,000	3,100,000	87.14%	33.57%	103,891,285	\$6,233,476	0.86%	84.37%
26	Taiwan	261,480,048	\$0.073	23,905,408	13,099,416	64.80%	32.30%	84,459,098	\$6,123,284	0.85%	85.22%
27	New Zealand	90,473,800	\$0.228	2,436,000	1,785,000	57.99%	28.99%	26,231,099	\$5,967,575	0.83%	86.04%
28	Turkey	258,065,178	\$0.073	23,374,384	16,914,856	55.27%	27.64%	71,319,705	\$5,170,879	0.72%	86.76%
29	Romania	177,350,811	\$0.120	3,845,118	4,116,000	48.30%	24.15%	42,829,025	\$5,139,483	0.71%	87.47%
30	Haiti	107,801,054	\$0.183	140,000	130,000	51.85%	25.93%	27,948,421	\$4,541,818	0.63%	88.10%
31	Argentina	115,903,284	\$0.170	6,500,000	6,009,448	44.90%	22.40%	25,939,011	\$4,409,632	0.61%	88.71%
32	Korea, South	394,815,139	\$0.038	32,342,000	23,257,000	58.17%	29.09%	114,632,202	\$4,306,208	0.60%	89.30%
33	Austria	57,034,870	\$0.233	6,780,000	3,610,000	63.86%	31.98%	18,238,144	\$4,240,366	0.59%	89.89%
34	Colombia	357,677,630	\$0.083	4,597,000	7,788,000	37.18%	18.59%	66,498,569	\$4,158,181	0.57%	90.47%
35	Norway	96,696,625	\$0.180	3,842,000	3,325,000	53.61%	26.80%	25,641,912	\$4,102,708	0.57%	91.03%
36	Hungary	76,745,117	\$0.183	6,581,898	3,888,443	64.15%	32.08%	24,617,898	\$4,000,376	0.55%	91.58%
37	South Africa	75,595,331	\$0.133	12,081,000	4,995,000	71.17%	35.58%	28,898,775	\$3,584,088	0.49%	92.08%
38	Morocco	86,839,621	\$0.080	6,196,870	1,127,447	84.61%	42.31%	37,583,859	\$3,008,706	0.42%	92.50%
39	Nigeria	96,340,860	\$0.083	1,633,090	702,000	69.94%	34.97%	34,388,020	\$2,837,012	0.39%	92.89%
40	Denmark	61,075,439	\$0.185	4,478,145	3,739,247	54.50%	27.25%	16,641,817	\$2,745,900	0.38%	93.27%

No.	International Point	Total Number of Outgoing Minutes	2004 All Carriers Average Res. Mobile Surcharge ** (\$ / Minute)	Mobile subscribers 2002	Fixed Main Telephone subscribers 2002	Mobile Ratio 2002	Adjusted Mobile Termination Ratio 2002	Estimated Outgoing Minutes Terminating on Mobile Phone	2004 Estimated Residential Mobile Surcharges (\$)	% of Total Surcharges	Cum % of Total Surcharge
41	Indonesia	114,758,563	\$0.078	11,700,000	7,632,556	60.52%	30.26%	34,725,755	\$2,881,248	0.37%	93.64%
42	Lebanon	113,807,082	\$0.088	775,104	678,840	53.31%	28.86%	30,336,530	\$2,578,529	0.36%	94.00%
43	Yugoslavia (now Serbia)	108,583,385	\$0.088	2,750,397	2,482,983	52.45%	26.23%	28,481,247	\$2,583,312	0.35%	94.35%
44	Finland	47,442,013	\$0.163	4,400,000	2,850,000	60.89%	30.34%	14,398,197	\$2,330,382	0.32%	94.68%
45	China	393,682,834	\$0.023	208,620,000	214,420,000	49.07%	24.54%	87,090,552	\$2,184,537	0.30%	94.98%
46	Panama	95,444,515	\$0.063	476,354	376,488	55.80%	27.90%	26,830,142	\$1,864,384	0.23%	95.21%
47	Czech Republic	33,898,195	\$0.128	6,810,177	3,880,843	69.04%	34.32%	11,702,253	\$1,482,037	0.21%	95.41%
48	Ecuador	325,596,855	\$0.018	1,980,861	1,426,188	52.25%	26.13%	85,089,178	\$1,488,711	0.21%	95.62%
49	Slovenia	30,631,242	\$0.143	2,823,383	1,402,728	67.58%	33.79%	10,349,586	\$1,474,818	0.20%	95.82%
50	Malaysia	118,041,295	\$0.038	8,500,000	4,710,000	64.38%	32.17%	38,298,678	\$1,436,200	0.20%	96.02%
51	Bulgaria	50,887,808	\$0.183	1,550,000	2,913,815	34.72%	17.36%	6,796,627	\$1,429,482	0.20%	96.22%
52	India	1,512,183,273	\$0.008	12,887,637	41,420,000	23.45%	11.72%	177,295,050	\$1,329,713	0.18%	96.41%
53	Croatia	47,533,780	\$0.088	2,278,000	1,879,000	54.80%	27.40%	13,024,044	\$1,289,844	0.18%	96.59%
54	Egypt	291,708,747	\$0.020	4,412,000	6,888,387	39.79%	18.87%	57,883,438	\$1,159,888	0.18%	96.74%
55	Hong Kong	171,185,017	\$0.020	6,287,541	3,842,843	62.10%	31.08%	53,185,484	\$1,083,110	0.15%	96.89%
56	Luxembourg	19,086,489	\$0.195	455,000	346,763	56.75%	28.37%	5,415,504	\$1,058,023	0.15%	97.03%
57	Ghana	102,742,801	\$0.045	193,773	242,122	44.48%	22.23%	22,838,826	\$1,027,848	0.14%	97.18%
58	Congo DRC	28,816,148	\$0.073	150,000	20,000	88.24%	44.12%	11,830,854	\$857,722	0.12%	97.30%
59	Bolivia	46,417,847	\$0.080	872,678	583,841	60.75%	30.37%	14,088,308	\$845,868	0.12%	97.41%
60	Uruguay	44,142,773	\$0.108	518,881	948,533	35.48%	17.73%	7,828,938	\$841,288	0.12%	97.53%
61	Nicaragua	56,307,389	\$0.050	238,827	171,832	58.30%	29.15%	16,412,783	\$820,840	0.11%	97.64%
62	Albania	48,516,320	\$0.040	800,000	220,000	78.43%	39.22%	19,418,185	\$776,727	0.11%	97.75%
63	Lithuania	30,256,730	\$0.078	1,631,573	935,889	63.55%	31.77%	9,613,748	\$745,088	0.10%	97.85%
64	Belize	29,728,232	\$0.080	82,500	31,840	82.40%	31.20%	9,274,815	\$741,888	0.10%	97.96%
65	Bosnia and Herzegovina	71,988,888	\$0.045	378,087	480,225	43.41%	21.71%	15,827,781	\$703,251	0.10%	98.05%
66	Paraguay	23,049,183	\$0.070	1,887,018	273,218	85.92%	42.88%	9,801,738	\$683,122	0.10%	98.15%
67	Slovenia	12,188,819	\$0.188	1,887,000	811,435	67.20%	33.83%	4,101,533	\$687,007	0.10%	98.24%
68	Kenya	38,047,841	\$0.043	1,325,222	328,104	80.15%	40.08%	15,248,807	\$648,088	0.08%	98.33%
69	Estonia	8,280,439	\$0.223	881,000	475,000	64.97%	32.49%	2,880,178	\$598,338	0.08%	98.42%
70	Jordan	38,224,870	\$0.053	888,000	680,000	58.02%	28.01%	10,988,008	\$576,788	0.08%	98.50%
71	Uganda	28,285,127	\$0.059	383,310	54,978	87.74%	43.87%	10,201,808	\$561,088	0.08%	98.57%
72	Barbados	58,003,882	\$0.088	53,111	128,958	29.17%	14.89%	8,188,435	\$551,371	0.08%	98.65%
73	Malta	11,829,364	\$0.173	238,418	207,288	53.80%	28.80%	3,118,578	\$537,888	0.07%	98.72%
74	Aruba	28,988,887	\$0.088	53,000	37,132	58.80%	29.40%	7,884,338	\$488,182	0.07%	98.79%
75	Honduras	370,723,987	\$0.008	326,508	322,487	50.31%	25.15%	93,253,788	\$488,288	0.06%	98.86%
76	Iceland	8,211,815	\$0.173	280,000	180,560	57.71%	28.85%	2,857,971	\$458,500	0.06%	98.92%
77	Sri Lanka	77,084,823	\$0.023	831,580	883,188	51.34%	25.87%	19,785,958	\$445,184	0.06%	98.98%
78	Cayman Islands	35,200,872	\$0.070	17,000	38,000	30.91%	15.45%	5,440,150	\$380,811	0.05%	99.03%
79	Senegal	37,817,201	\$0.028	553,427	224,823	71.13%	35.57%	13,448,888	\$388,888	0.05%	99.08%
80	Cote d'Ivoire	28,794,402	\$0.033	1,027,058	338,128	75.34%	37.87%	11,223,911	\$384,777	0.05%	99.14%

No.	International Point	Total Number of Outgoing Minutes	2004 All Carriers Average Res. Mobile Surcharge ** (\$ / Minute)	Mobile subscribers 2002	Fixed Main Telephone subscribers 2002	Mobile Ratio 2002	Adjusted Mobile Termination Ratio 2002	Estimated Outgoing Minutes Terminating on Mobile Phone	2004 Estimated Residential Mobile Surcharges (\$)	% of Total Surcharges	Cum % of Total Surcharge
81	Cyprus	21,805,542	\$0.008	417,933	427,427	49.44%	24.72%	5,300,163	\$350,361	0.05%	99.19%
82	Guadeloupe	6,012,009	\$0.176	323,500	210,000	60.84%	30.32%	1,622,760	\$318,963	0.04%	99.23%
83	Latvia	10,543,386	\$0.103	917,196	701,211	56.67%	28.34%	2,967,614	\$306,230	0.04%	99.27%
84	Angola	26,180,185	\$0.035	130,000	85,000	60.47%	30.23%	7,908,863	\$278,811	0.04%	99.31%
85	Thailand	148,370,616	\$0.005	16,117,000	6,042,491	72.73%	36.17%	53,228,003	\$266,145	0.04%	99.35%
86	Ukraine	128,584,376	\$0.023	2,224,800	10,980,800	17.25%	8.63%	11,080,426	\$249,536	0.03%	99.38%
87	Zimbabwe	9,257,087	\$0.009	363,000	287,664	55.06%	27.54%	2,549,632	\$242,208	0.03%	99.41%
88	Vietnam	252,150,869	\$0.006	1,902,368	5,567,140	25.47%	12.73%	32,109,687	\$240,823	0.03%	99.45%
89	Martinique (French Overseas Dept.)	4,457,107	\$0.159	319,800	172,000	65.03%	32.82%	1,446,307	\$224,643	0.03%	99.48%
90	Qatar	15,804,884	\$0.048	266,703	178,519	60.17%	30.09%	4,685,047	\$223,015	0.03%	99.51%
91	Bangladesh	132,124,897	\$0.006	1,075,000	682,000	61.18%	30.50%	40,418,540	\$202,988	0.03%	99.54%
92	Dominica	21,373,006	\$0.076	9,356	25,410	28.91%	13.46%	2,875,862	\$201,312	0.03%	99.57%
93	Georgia	9,841,778	\$0.063	503,619	648,480	43.71%	21.86%	2,151,077	\$198,875	0.03%	99.59%
94	United Arab Emirates	111,450,454	\$0.006	2,428,071	1,083,654	68.95%	34.47%	38,420,038	\$192,100	0.03%	99.62%
95	Grenada	30,561,886	\$0.066	7,553	33,544	18.36%	9.19%	2,808,402	\$182,546	0.03%	99.65%
96	Liechtenstein	3,883,118	\$0.205	15,500	19,823	43.78%	21.88%	849,586	\$174,161	0.02%	99.67%
97	Singapore	108,979,876	\$0.006	3,295,100	1,930,200	63.06%	31.53%	34,381,624	\$171,808	0.02%	99.69%
98	Cameroon	31,945,112	\$0.013	563,000	101,442	84.73%	42.37%	13,533,886	\$169,175	0.02%	99.72%
99	St. Vincent and the Grenadines	31,461,241	\$0.045	7,492	26,078	22.32%	11.16%	3,510,888	\$157,981	0.02%	99.74%
100	French Guiana	2,276,079	\$0.166	136,200	51,000	73.04%	36.52%	831,274	\$137,180	0.02%	99.76%
101	Bahrain	12,076,639	\$0.028	386,980	176,446	68.92%	34.46%	4,388,153	\$120,124	0.02%	99.77%
102	Andorra	3,842,051	\$0.148	23,543	35,000	40.21%	20.11%	772,538	\$113,949	0.02%	99.79%
103	Oman	14,985,987	\$0.025	324,540	235,307	57.97%	28.86%	4,346,543	\$108,664	0.02%	99.80%
104	Saudi Arabia	178,471,419	\$0.003	2,528,640	3,232,929	43.89%	21.94%	39,383,278	\$98,456	0.01%	99.82%
105	Guinea	24,102,842	\$0.010	65,670	25,490	68.59%	34.30%	8,286,420	\$82,684	0.01%	99.83%
106	Namibia	2,931,880	\$0.088	150,000	117,368	56.10%	28.05%	622,336	\$80,176	0.01%	99.84%
107	Armenia	19,891,082	\$0.080	44,307	531,458	7.70%	3.85%	765,345	\$69,681	0.01%	99.85%
108	Yemen	40,801,310	\$0.013	152,000	423,162	26.43%	13.21%	5,364,823	\$67,062	0.01%	99.86%
109	Gibraltar	2,539,291	\$0.180	9,797	24,512	28.56%	14.28%	362,650	\$65,259	0.01%	99.87%
110	Costa Rica	154,044,953	\$0.003	528,047	1,037,886	33.72%	16.86%	25,971,028	\$64,926	0.01%	99.88%
111	Bahamas, The	104,481,536	\$0.003	121,759	126,556	48.03%	24.52%	25,815,786	\$64,038	0.01%	99.89%
112	Samoa (Western)	7,289,934	\$0.073	3,200	10,200	23.77%	11.89%	864,182	\$62,653	0.01%	99.90%
113	Russia	148,786,778	\$0.003	17,800,000	35,700,000	33.27%	16.84%	24,751,445	\$61,679	0.01%	99.90%
114	Kuwait	37,735,372	\$0.005	877,920	472,414	65.02%	32.51%	12,286,631	\$61,334	0.01%	99.91%
115	Kazakhstan	22,780,242	\$0.026	582,000	1,838,628	23.08%	11.54%	2,629,568	\$62,531	0.01%	99.92%
116	Gambia, The	19,806,016	\$0.015	55,085	35,029	61.13%	30.56%	3,303,674	\$48,555	0.01%	99.93%
117	Saint Lucia	32,987,358	\$0.055	2,700	50,000	5.12%	2.56%	845,027	\$48,476	0.01%	99.93%
118	Mauritania	8,382,508	\$0.013	245,736	32,005	88.48%	44.24%	3,712,710	\$48,409	0.01%	99.94%
119	Algeria	24,270,700	\$0.028	300,000	1,880,000	13.76%	6.88%	1,670,002	\$45,925	0.01%	99.95%
120	Reunion	788,525	\$0.165	489,800	300,000	62.02%	31.01%	244,505	\$40,343	0.01%	99.95%

No.	International Point	Total Number of Outgoing Minutes	2004 All Carriers Average Res. Mobile Surcharge ** (\$ / Minute)	Mobile subscribers 2002	Fixed Main Telephone subscribers 2002	Mobile Ratio 2002	Adjusted Mobile Termination Ratio 2002	Estimated Outgoing Minutes Terminating on Mobile Phone	2004 Estimated Residential Mobile Surcharges (\$)	% of Total Surcharges	Cum % of Total Surcharge
121	Sierra Leone	19,256,516	\$0.008	28,895	22,745	54.18%	27.09%	5,216,599	\$39,124	0.01%	99.98%
122	Moldova	10,046,493	\$0.028	225,000	639,165	26.04%	13.02%	1,307,987	\$35,987	0.00%	99.98%
123	Mali	7,927,484	\$0.018	45,340	49,863	47.62%	23.81%	1,887,714	\$33,035	0.00%	99.97%
124	Azerbaijan	7,229,141	\$0.018	870,000	989,200	46.79%	23.40%	1,991,414	\$29,800	0.00%	99.97%
125	Afghanistan	11,825,006	\$0.013	12,000	33,050	26.64%	13.32%	1,574,918	\$19,888	0.00%	99.97%
126	Ethiopia	22,857,778	\$0.018	50,389	368,199	12.03%	6.02%	1,375,312	\$24,068	0.00%	99.98%
127	Botswana	5,346,842	\$0.010	415,000	142,800	74.43%	37.21%	1,989,723	\$19,897	0.00%	99.98%
128	Togo	7,046,414	\$0.008	120,000	48,384	71.27%	35.83%	2,510,837	\$18,831	0.00%	99.98%
129	Brunei	3,998,312	\$0.015	137,000	88,440	60.77%	30.39%	1,214,280	\$18,214	0.00%	99.98%
130	Syria	31,004,720	\$0.010	200,000	1,710,000	10.47%	5.24%	1,823,284	\$16,233	0.00%	99.99%
131	Congo	4,720,155	\$0.008	221,800	22,000	90.98%	45.49%	2,147,109	\$18,103	0.00%	99.99%
132	Nepal	39,106,319	\$0.013	21,881	327,673	6.28%	3.13%	1,223,987	\$15,300	0.00%	99.99%
133	Gabon	2,739,821	\$0.013	258,987	37,233	87.39%	43.70%	1,197,197	\$14,965	0.00%	99.98%
134	Swaziland	2,020,822	\$0.013	63,000	32,000	66.32%	33.16%	670,062	\$8,378	0.00%	99.98%
135	Rwanda	1,250,772	\$0.013	80,000	21,500	80.72%	40.36%	504,798	\$6,310	0.00%	99.99%
136	Madagascar	1,718,191	\$0.010	147,500	58,399	71.84%	35.82%	815,431	\$6,154	0.00%	100.00%
137	Burkina Faso	3,259,471	\$0.005	75,000	57,819	56.55%	28.28%	821,684	\$4,808	0.00%	100.00%
138	Central African Republic	414,936	\$0.028	11,000	8,917	55.23%	27.81%	114,583	\$3,151	0.00%	100.00%
139	Liberia	1,736,980	\$0.015	2,000	6,800	22.73%	11.36%	197,384	\$2,961	0.00%	100.00%
140	Sudan	7,486,473	\$0.003	190,778	453,000	29.63%	14.82%	1,109,572	\$2,774	0.00%	100.00%
141	Benin	3,108,577	\$0.003	125,000	59,298	67.82%	33.91%	1,063,517	\$2,634	0.00%	100.00%
142	Myanmar	20,822,229	\$0.005	13,780	295,234	4.46%	2.23%	484,288	\$2,321	0.00%	100.00%
143	Chad	950,250	\$0.005	34,200	11,000	75.66%	37.83%	359,497	\$1,797	0.00%	100.00%
144	Greenland	423,879	\$0.018	18,747	26,218	38.98%	19.49%	82,614	\$1,448	0.00%	100.00%
145	Laos	2,131,033	\$0.003	55,160	61,910	47.12%	23.56%	502,041	\$1,255	0.00%	100.00%
146	Laos (incl. in Laos)	844,831	\$0.003	92,000	34,036	73.00%	38.50%	308,342	\$771	0.00%	100.00%
147	Burundi	656,625	\$0.003	30,887	20,000	60.54%	30.27%	198,787	\$487	0.00%	100.00%
148	Mayotte (include in Comoros)	n.a.	\$0.220	21,700	10,000	68.45%	34.23%	0	\$0	0.00%	100.00%
149	T.F.Y.R. Macedonia (include in Serbia)	n.a.	\$0.005	223,275	538,507	29.31%	14.65%	0	\$0	0.00%	100.00%
150	Faroe Islands (include in Denmark)	n.a.	\$0.010	16,971	24,952	40.46%	20.24%	0	\$0	0.00%	100.00%

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151	Vatican City	n.a.	\$0.185	0	0	n.a.	n.a.	n.a.	n.a.		
152	St. Pierre and Miquelon	347,257	\$0.140	0	0	n.a.	n.a.	n.a.	n.a.		
153	Monaco (include in France)	n.a.	\$0.130	0	0	n.a.	n.a.	n.a.	n.a.		
154	Comoros	452,506	\$0.096	0	10,258	n.a.	n.a.	n.a.	n.a.		
155	Western Sahara	0	\$0.083	0	0	n.a.	n.a.	n.a.	n.a.		
156	Antarctica	23,444	\$0.055	0	0	n.a.	n.a.	n.a.	n.a.		
157	Canary Island	718	\$0.045	0	0	n.a.	n.a.	n.a.	n.a.		
158	Netherlands Antilles	56,786,521	\$0.045		81,000	n.a.	n.a.	n.a.	n.a.		
159	Bhutan	288,914	\$0.028	0	18,815	n.a.	n.a.	n.a.	n.a.		
180	Eritrea (include in Ethiopia)	n.a.	\$0.008	0	35,897	n.a.	n.a.	n.a.	n.a.		
181	American Samoa	10,856,552	\$0.003	0	0	n.a.	n.a.	n.a.	n.a.		
	<b>Total</b>	<b>24,531,534,764</b>		<b>957,248,790</b>	<b>848,442,214</b>	<b>53.07%</b>		<b>6,754,897,482</b>	<b>\$722,868,874</b>	<b>100%</b>	

Notes:

\* Region Code:

- 1 Western Europe
- 2 Africa
- 3 Middle East
- 4 Caribbean
- 5 North and Central America
- 6 South America
- 7 Asia
- 8 Oceania
- 9 Eastern Europe
- 10 Other Regions

\*\* Average Rate is the simple average of mobile surcharges of AT&T, MCI, Sprint, and Verizon.

## Appendix F

## AT&amp;T Revised TCP Study

AT&T's Revised Tariffs Components Price (R-TCP) study<sup>1</sup> reflects a considerable reworking of the original TCP study used by the Commission in the *Benchmarks Order*. The R-TCP study is based on the same 65 countries as the original TCP study. The study relies on updated 2003 tariff data available from Tarifica and Lynx Technologies, private companies that make information available to the public for a fee. The R-TCP study also uses currency exchange rates from August 28 or 29, 2003 to convert foreign rates into U.S. dollars. AT&T makes substantial downward adjustments to the cost estimates of international transport, international switching, and national extension services. Regarding international transport and switching, AT&T notes that tremendous technological advances have occurred over the last ten years along with more recent and more accurate sources of rate information.

AT&T's method for estimating the cost of national extension is considerably revised, in part to "model closely the network configurations that are used to terminate calls."<sup>2</sup> The original TCP study used local calling tariffs in the destination country to estimate the cost of calls terminating in local exchanges near the international switch. For calls terminating elsewhere in the destination country, the original TCP study used the destination country's long-distance calling tariffs for the public switched network. In the R-TCP study, however, AT&T uses a different method. According to AT&T, the retail price of a local call covers local network components used both to originate and terminate the local call, but the termination of an international call on a local network involves only call termination.<sup>3</sup> Accordingly, AT&T uses one-half of the tariffed rate for a local phone call in the destination country to estimate the local network cost of terminating U.S. international traffic. The R-TCP study uses generally available, postpaid rates for mobile-to-mobile on-net subscriber originated calls.<sup>4</sup> For traffic that must travel a distance from the international switch, the R-TCP study adds a charge based on the destination country's domestic private line tariffs.

The R-TCP study also departs from the original TCP study by applying a 16 percent discount to all foreign tariffs to remove retailing costs for marketing, advertising, and billing and collection, which AT&T claims are "avoided costs" for international call termination.<sup>5</sup>

According to AT&T, the mobile TCP rates are largely based on foreign carrier tariffs for the relevant network components and provide a "very conservative" cost ceiling. The mobile TCPs are approximately \$0.08 per minute for high-, middle-, and low-income countries and approximately \$0.11 per minute for low-teledensity countries. The average of mobile R-TCP rates for the entire sample of 65 countries is \$0.0823 per minute. It is important to note that the R-TCP calculation includes the entire cost of terminating a U.S. international minute on a foreign mobile network, not the difference between

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<sup>1</sup> Letter from Douglas W. Schoenberger, Government Affairs Director, International, AT&T to Marlene Dortch, Secretary, FCC, IB Docket Nos. 02-324 & 96-261 (dated Feb. 5, 2004) Annex A, Revised Tariffs Component Pricing (R-TCP) Benchmark Study (AT&T R-TCP Study).

<sup>2</sup> AT&T's Feb. 5, 2004 *Ex Parte Letter* at 2.

<sup>3</sup> AT&T's R-TCP Study at 6.

<sup>4</sup> AT&T's R-TCP Study at 7.

<sup>5</sup> AT&T's R-TCP Study at 8.

the fixed and mobile termination. The proper comparison of AT&T's R-TCP cost estimate for mobile termination is to the sum of the settlement rate plus any additional mobile termination rate charged by a foreign operator, not to the mobile termination rate alone.

The study is available through the Commission's Electronic Comment Filing System at <http://www.fcc.gov/cgb/ecfs/> under IB Docket Nos. 02-234 and 96-261.

**STATEMENT OF  
COMMISSIONER MICHAEL J. COPPS**

RE: *Notice of Inquiry on the Effects of Foreign Mobile Termination Rates on U.S. Customers, IB  
Docket No. 04-398*

Increasingly U.S. consumers are facing very high and often unexpected charges when they place international calls to people using mobile phones. In some cases these rates appear to be well above cost. So the FCC has the responsibility to investigate these charges and to determine if we should take action. I hope that this NOI will give us the data we need to understand if and how we should respond.

I also want to note that a group of our peer regulators have undertaken proceedings to study these rates. I hope that we can benefit from the data that they have collected and that we will make every effort to understand better how their domestic mobile regulatory systems would be affected by our decisions.