



INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

Supplement 2

(Series E)

(01/94)

**TELEPHONE NETWORK AND ISDN
OPERATION, NUMBERING,
ROUTING AND MOBILE SERVICE**

**VARIOUS TONES USED
IN NATIONAL NETWORKS**

**Supplement 2
(to ITU-T Recommendation E.180)**

FOREWORD

The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of the International Telecommunication Union. The ITU-T is responsible for studying technical, operating and tariff questions and issuing Recommendations on them with a view to standardizing telecommunications on a worldwide basis.

The World Telecommunication Standardization Conference (WTSC), which meets every four years, established the topics for study by the ITU-T Study Groups which, in their turn, produce Recommendations on these topics.

Supplement 2 was revised by the ITU-T Study Group 1 (1993-1996) and was approved under the provisions of WTSC-93 Resolution No. 5 by Study Group 1 at its meeting 18-28 January 1994. This is the first revision of this supplement undertaken since 1980.

NOTES

1 As a consequence of a reform process within the International Telecommunication Union (ITU), the CCITT ceased to exist as of 28 February 1993. In its place, the ITU Telecommunication Standardization Sector (ITU-T) was created as of 1 March 1993. Similarly, in this reform process, the CCIR and the IFRB have been replaced by the Radiocommunication Sector.

In order not to delay publication of this Recommendation, no change has been made in the text to references containing the acronyms “CCITT, CCIR or IFRB” or their associated entities such as Plenary Assembly, Secretariat, etc. Future editions of this Recommendation will contain the proper terminology related to the new ITU structure.

2 In this Recommendation, the expression “Administration” is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

VARIOUS TONES USED IN NATIONAL NETWORKS

TONE	FREQUENCY (Hz)	CADENCE (Seconds)
ALBANIA		
DIAL TONE	425	CONTINUOUS
RINGING TONE	425	1.0 – 4.0
BUSY TONE	425	0.3 – 0.3
CONGESTION TONE	425	0.15 – 0.15
ALGERIA		
RINGING TONE	25//50	1.5 – 3.5
BUSY TONE	450	0.5 – 0.5
ANGOLA		
DIAL TONE	400	CONTINUOUS
RINGING TONE	25	1.0 – 5.0
BUSY TONE	400	0.5 – 0.5
CONGESTION TONE	400	0.5 – 0.5
NUMBER UNOBTAINABLE TONE	400	0.2 – 0.2
WAITING TONE	400	1.0 – 5.0
ANGUILLA		
DIAL TONE	350+440	CONTINUOUS
RECALL DIAL TONE	350+440	3×(0.1 – 0.1) – CONTINUOUS
RINGING TONE	440+480	2.0 – 4.0
BUSY TONE	480+620	0.5 – 0.5
CONGESTION TONE	480+620	0.25 – 0.25
SPECIAL INFORMATION TONE	950/1400/1800	3×0.33 – 1.0
WARNING TONE – OPERATOR INTERVENING	450	0.2 – 0.2 – 0.65 – 0.2
NUMBER UNOBTAINABLE TONE	480+620	0.25 – 0.25
WAITING TONE	440	1×(0.5 – 10.0 – 0.5)
PAYPHONE RECOGNITION TONE	1600/1143	0.2 – 0.2 – 0.2 – 2.0
ANTIGUA AND BARBUDA		
DIAL TONE	350/440	CONTINUOUS
SECOND DIAL TONE	350/440	CONTINUOUS
RECALL DIAL TONE	350/440	CONTINUOUS
RINGING TONE	440/480	2.0 – 4.0
BUSY TONE	480/620	0.5 – 0.5
CONGESTION TONE	480/620	0.25 – 0.25
NUMBER UNOBTAINABLE TONE		recorded announcement
WAITING TONE	480	0.5 – 10.0 – 0.5 (once only)
TEST NUMBER TONE	1004	CONTINUOUS
ARGENTINA		
DIAL TONE	425	CONTINUOUS
RINGING TONE	425	1.0 – 4.0
BUSY TONE	425	0.3 – 0.2
CONGESTION TONE	425	0.3 – 0.4
WARNING TONE – OPERATOR INTERVENING	1400	5×0.1 – 1.9
WAITING TONE	425	0.4 – 0.2 – 0.4 – 4.0
CALL WAITING TONE	425	0.3 – 10.0
END OF THREE PARTY SERVICE TONE	950/1400/1800	3×0.33 (single burst)
SERVICE ACTIVATED TONE	425	1.0 – 0.25

TONE	FREQUENCY (Hz)	CADENCE (Seconds)
ARUBA		
DIAL TONE	425	CONTINUOUS
RINGING TONE	425	1.0 – 4.0
BUSY TONE	425	0.5 – 0.5
CONGESTION TONE	425	0.25 – 0.25
NUMBER UNOBTAINABLE TONE	950/1400/1800	3×0.33 – 1.0
SPECIAL INFORMATION TONE	950/1400/1800	3×0.33 – 1.0
WAITING TONE	425	0.2 – 0.2 – 0.2 – 4.4
ASCENSION		
DIAL TONE	350/440	CONTINUOUS
RINGING TONE	440/480	1.0 – 3.0
BUSY TONE	480/620	0.5 – 0.5
WARNING TONE – OPERATOR INTERVENING	440	0.8 – 6.0 – 0.2 – 6.0 – 0.2
NUMBER UNOBTAINABLE TONE	480/620	0.25 – 0.25
AUSTRALIA		
DIAL TONE	425×25	CONTINUOUS
DIAL TONE (PABX)	154 ¹⁾	CONTINUOUS
RINGING TONE	400×17	0.4 – 0.2 – 0.4 – 2.0
BUSY TONE	400	0.375 – 0.375
CONGESTION TONE	400 ²⁰⁾	0.375 – 0.375
WARNING TONE – OPERATOR INTERVENING	425//525	1.0 – 15.0 – 0.36 – 15.0
NUMBER UNOBTAINABLE TONE	400	2.5 – 0.5
WAITING TONE	425/525	0.1 – 0.1 – 0.1 – 4.7
RECORD TONE	1400	0.425 – 14.525
PAYPHONE RECOGNITION TONE	1100+1750/750+1450	0.075 – 0.15 – 0.075 – 2.7
FACILITIES TONE	425	CONTINUOUS
OFFERING TONE	525 ^{6) 10)}	0.1 – 0.1
AUSTRIA		
DIAL TONE	420//450 ³¹⁾	CONTINUOUS
SPECIAL DIAL TONE	380+420	CONTINUOUS
RECALL DIAL TONE	420	CONTINUOUS
RINGING TONE	420//450 ³¹⁾	1.0 – 5.0
BUSY TONE I	420	0.4 – 0.4
BUSY TONE II ²⁷⁾	450	0.3 – 0.3
CONGESTION TONE I	420	0.2 – 0.2
CONGESTION TONE II ²⁷⁾	450	0.3 – 0.3
SPECIAL INFORMATION TONE	950/1400/1800	3×0.33 – 1.0
WARNING TONE – OPERATOR INTERVENING	420//450 ³¹⁾	0.15 – 0.15 – 0.15 – 1.95
NUMBER UNOBTAINABLE TONE	950/1400/1800	3×0.33 – 1.0
WAITING TONE	420	0.04 – 1.95
PAYPHONE RECOGNITION TONE	1336/1633	0.2 – 0.2 – 0.2 – 2.0
POSITIVE INDICATION TONE	380+420	1.0 – 5.0
NEGATIVE INDICATION TONE	380+420	0.4 – 0.4
BAHAMAS		
RINGING TONE	440/480//420/20//400	2.0 – 4.0
BUSY TONE	480/620/420//400	0.5 – 0.5
BAHRAIN		
DIAL TONE	330×440	CONTINUOUS
RINGING TONE	440//450	0.4 – 0.2 – 0.4 – 2.0
BUSY TONE	400	0.375 – 0.375
CONGESTION TONE I	400	0.4 – 0.35 – 0.225 – 0.525
CONGESTION TONE II	400	0.375 – 0.375
NUMBER UNOBTAINABLE TONE	400	CONTINUOUS

TONE	FREQUENCY (Hz)	CADENCE (Seconds)
BAHRAIN (<i>continuation</i>)		
INTERCEPT TONE	450//425+475	0.05 – 0.05
ROUTE TONE	425	0.06 – 0.06
PAYPHONE RECOGNITION TONE	816/1209	0.125 – 1.5
BARBADOS		
DIAL TONE	350+440	CONTINUOUS
SECOND DIAL TONE	350+440	2×(1.0 – 1.0) – CONTINUOUS
RECALL DIAL TONE	350+440	3×(0.1 – 0.1) – CONTINUOUS
RINGING TONE	440+480	2.0 – 4.0
BUSY TONE	480+620	0.5 – 0.5
CONGESTION TONE	480+620	0.25 – 0.25
BELARUS		
RINGING TONE	425	0.8 – 3.2
BUSY TONE	425	0.4 – 0.4
BELGIUM		
DIAL TONE	425//450	CONTINUOUS
SECOND DIAL TONE ²⁷⁾	900/1020/1140	3×0.333
RINGING TONE	425//450	1.0 – 3.0
BUSY TONE	425//450	0.5 – 0.5
CONGESTION TONE	425//450	0.167 – 0.167
SPECIAL INFORMATION TONE	900/1380/1860	3×0.333 – 1.0
BENIN		
RINGING TONE	440	1.5 – 3.5
PAYPHONE RECOGNITION TONE	1100+1750/750+1450	0.2 – 0.2 – 0.2 – 2.0
BERMUDA		
DIAL TONE	350+440	CONTINUOUS
RINGING TONE	440+480	2.0 – 4.0
BUSY TONE	480+620	0.5 – 0.5
CONGESTION TONE	480+620	0.25 – 0.25
NUMBER UNOBTAINABLE TONE	200//400	0.5 (for six seconds)
WAITING TONE	440	(two bursts, ten seconds apart)
BHUTAN		
DIAL TONE	400+25	CONTINUOUS
RINGING TONE	400+25	0.4 – 0.2 – 0.4 – 2.6
BUSY TONE	400	0.6 – 0.6
NUMBER UNOBTAINABLE TONE	400	CONTINUOUS
WAITING TONE	400	0.5 – 0.25
OFFERING TONE	450	0.2 – 0.2 – 0.2 – 0.6
BOTSWANA		
DIAL TONE	350+450	CONTINUOUS
RINGING TONE	400//450	0.4 – 0.2 – 0.4 – 2.0
BUSY TONE	400	0.375 – 0.375
CONGESTION TONE	425	0.25 – 0.25
WARNING TONE – OPERATOR INTERVENING	425	0.16 – 2.0
NUMBER UNOBTAINABLE TONE	400	CONTINUOUS
WAITING TONE	425	0.2 – 1.0
PAYPHONE RECOGNITION TONE	1600	0.07 – 2.0
BRAZIL		
DIAL TONE	425	CONTINUOUS
DIAL TONE (PABX)	425	0.975 – 0.05
RINGING TONE	425	1.0 – 4.0
BUSY TONE	425	0.25 – 0.25

TONE	FREQUENCY (Hz)	CADENCE (Seconds)
BRAZIL (<i>continuation</i>)		
NUMBER UNOBTAINABLE TONE	425	0.75 – 0.25 – 0.25 – 0.25
WAITING TONE	425	0.05 – 1.0
EXECUTIVE OVERRIDE TONE	750	0.02 – 1.0
FUNCTION ACKNOWLEDGE TONE	425	0.1 – 0.1 – 0.1 – 2.0
PAY TONE	300 ²⁾	0.75
BRITISH VIRGIN ISLANDS		
DIAL TONE	350+440	CONTINUOUS
RECALL DIAL TONE	350+440	3×(0.1 – 0.1) – CONTINUOUS
RINGING TONE	440+480	2.0 – 4.0
BUSY TONE	480+620	0.5 – 0.5
CONGESTION TONE	480+620	0.25 – 0.25
SPECIAL INFORMATION TONE	950/1400/1800	3× 0.33 – 1.0
WARNING TONE – OPERATOR INTERVENING	450	0.2 – 0.2 – 0.65 – 0.2
NUMBER UNOBTAINABLE TONE	480+620	0.25 – 0.25
WAITING TONE	440	1×(0.5 – 10.0 – 0.5)
PAYPHONE RECOGNITION TONE	1600/1143	0.2 – 0.2 – 0.2 – 2.0
BRUNEI DARUSSALAM		
DIAL TONE	400×50	CONTINUOUS
SPECIAL DIAL TONE – TRANSMISSION	1000	CONTINUOUS
RINGING TONE	400+450	0.4 – 0.3 – 0.4 – 2.0
BUSY TONE	400	0.375 – 0.375
CONGESTION TONE	400	0.375 – 0.375
WARNING TONE – OPERATOR INTERVENING	400	0.25 – 2.0
WARNING TONE – END OF PERIOD	400	0.624 – 4.376
WARNING TONE – PIP TONE	900	0.25 – 0.25
NUMBER UNOBTAINABLE TONE	400	CONTINUOUS
WAITING TONE	400×24	0.5
CONFIRMATION TONE	400×24	0.1 – 0.1 – 0.3 – 0.3
HOLDING TONE	400×24	0.5 – 2.5
BULGARIA		
DIAL TONE I	425	0.25 – 0.3 – 0.7 – 0.8
DIAL TONE II	425	0.25 – 0.75 – 0.75 – 1.0
RINGING TONE I	425	1.0 – 9.0
RINGING TONE II	425	1.0 – 4.0
RINGING TONE III	425	1.83 – 3.0
BUSY TONE I	425	0.25 – 0.25
BUSY TONE II	425	0.5 – 0.5
BUSY TONE III	425	0.2 – 0.5
CONGESTION TONE I	425	0.25 – 0.25
CONGESTION TONE II	425	0.5 – 0.5
CONGESTION TONE III	425	0.2 – 0.5
SPECIAL INFORMATION TONE	950/1400/1800	3× 0.33 – 1.0
WARNING TONE – OPERATOR INTERVENING I	425	0.15 – 0.25 – 0.15 – 1.15
WARNING TONE – OPERATOR INTERVENING II	425	0.2 – 0.3 – 0.2 – 1.5
NUMBER UNOBTAINABLE TONE	950/1400/1800	3× 0.33 – 1.0
BURKINA FASO		
DIAL TONE I	425	CONTINUOUS
DIAL TONE II ²⁷⁾	350/440	CONTINUOUS
RINGING TONE I	425	1.0 – 4.0
RINGING TONE II ²⁷⁾	440/480	0.2 – 0.2
BUSY TONE I	425	0.5 – 0.5
BUSY TONE II ²⁷⁾	480/620	0.5 – 0.5

TONE	FREQUENCY (Hz)	CADENCE (Seconds)
BURKINA FASO (<i>continuation</i>)		
CONGESTION TONE ²⁷⁾	480/620	2.4 – 2.4
ROUTE TONE I	425	0.05 – 0.05
ROUTE TONE II ²⁷⁾	425	0.04 – 0.04
BURUNDI		
DIAL TONE	425	CONTINUOUS
RINGING TONE	425	1.7 – 3.3
BUSY TONE	450	0.25 – 0.25
SPECIAL INFORMATION TONE	150/450	0.5 – 0.5
ROUTE TONE	425	0.5 – 0.5
CAMEROON		
DIAL TONE	440	CONTINUOUS
SECOND DIAL TONE	330//440	CONTINUOUS
RINGING TONE	440	1.7 – 3.3
BUSY TONE	440	0.5 – 0.5
ROUTE TONE	440	0.05 – 0.05
CANADA		
DIAL TONE	600×120//350+440	CONTINUOUS
DIAL TONE (PABX)	350+440	CONTINUOUS
RECALL DIAL TONE (PABX)	350+440	0.1 – 0.1
RINGING TONE	440+480	2.0 – 4.0
RINGING TONE (PABX)	440+480	1.0 – 3.0
BUSY TONE	480+620	0.5 – 0.5
CONGESTION TONE	480+620	0.25 – 0.25
EXECUTIVE OVERRIDE TONE (PABX)	440	3.0
INTERCEPT TONE (PABX)	440/620	0.25 – 0.25
CONFIRMATION TONE (PABX)	350+440	3×0.1 – 2×0.1
CAYMAN ISLANDS		
DIAL TONE	425	CONTINUOUS
RINGING TONE	425	1.0 – 4.0
BUSY TONE	425	0.5 – 0.5
CONGESTION TONE	425	0.25 – 0.25
NUMBER UNOBTAINABLE TONE	425	0.25 – 0.25
CENTRAL AFRICAN REP.		
DIAL TONE	425	CONTINUOUS
SECOND DIAL TONE	425+330	CONTINUOUS
RINGING TONE	425	1.7 – 3.3
BUSY TONE	425	0.5 – 0.5
CONGESTION TONE	425	0.5 – 0.5
NUMBER UNOBTAINABLE TONE	425	0.5 – 0.5
ROUTE TONE	425	0.05 – 0.05
PAY TONE	12000	0.15 – 0.15
CHANNEL ISLANDS: JERSEY		
DIAL TONE	350+450	CONTINUOUS
RINGING TONE	400+450	0.4 – 0.2 – 0.4 – 2.0
BUSY TONE	400	0.375 – 0.375
CONGESTION TONE	400	0.4 – 0.35 – 0.225 – 0.525
NUMBER UNOBTAINABLE TONE	400	CONTINUOUS
WAITING TONE	400	0.1 – 2.5 – 0.1
PAY TONE	400	0.125 – 0.125

TONE	FREQUENCY (Hz)	CADENCE (Seconds)
CHILE		
DIAL TONE	400	CONTINUOUS
SECOND DIAL TONE	330+440	CONTINUOUS
RINGING TONE	400	1.0 – 3.0
BUSY TONE	400	0.5 – 0.5
CONGESTION TONE	400	0.2 – 0.2
SPECIAL INFORMATION TONE	950/1400/1800	3×0.333 – 1.0
WARNING TONE – OPERATOR INTERVENING	1400	0.5 – 15.0
WAITING TONE	900+1300	0.5 – 0.5
PAYPHONE RECOGNITION TONE	1100+1750/750+1450	0.2 – 0.2 – 0.2 – 2.0
IDENTIFICATION TONE	800/1200	0.6 – 2.0 – 0.6 – 2.0
WARNING TONE – END OF PERIOD	800	2.0
CHINA		
DIAL TONE	450	CONTINUOUS
SECOND DIAL TONE	450	CONTINUOUS
RINGING TONE	450	1.0 – 4.0
BUSY TONE	450	0.35 – 0.35
CONGESTION TONE	450	0.7 – 0.7
INTRUSION TONE	450 ⁶⁾	0.2 – 0.2 – 0.2 – 0.6
SPECIAL INFORMATION TONE I	450	0.4 – 0.04
SPECIAL INFORMATION TONE II	950	0.4 – 10.0
NUMBER UNOBTAINABLE TONE	450	3×(0.1 – 0.1) – 0.4 – 0.4
WAITING TONE	450	0.4 – 4.0
COMOROS		
DIAL TONE	425	CONTINUOUS
SECOND DIAL TONE	850	CONTINUOUS
RINGING TONE	425	1.71 – 3.31
BUSY TONE	425	0.5 – 0.5
ROUTE TONE	425	0.05 – 0.05
COSTA RICA		
DIAL TONE	425	CONTINUOUS
RINGING TONE	425	1.2 – 4.6
BUSY TONE	425	0.3 – 0.3
CÔTE D'IVOIRE		
DIAL TONE	425	CONTINUOUS
RINGING TONE	50//425×50	1.66 – 3.33
BUSY TONE	425	0.5 – 0.5
ROUTE TONE	425	0.05 – 0.05
CROATIA		
DIAL TONE	425	0.2 – 0.3 – 0.7 – 0.8
SPECIAL DIAL TONE	425	0.4 – 0.04
RINGING TONE	425	1.0 – 4.0
BUSY TONE	425	0.5 – 0.5
CONGESTION TONE	425	0.25 – 0.25
SPECIAL INFORMATION TONE	950/1400/1800	3×0.333 – 1.0
WARNING TONE – OPERATOR INTERVENING ³²⁾	425	0.2 – 0.3 – 0.7 – 0.8
NUMBER UNOBTAINABLE TONE	950/1400/1800	3×0.333 – 1.0
WAITING TONE	425	0.3 – 8.0
PAYPHONE RECOGNITION TONE	1206/850	0.2 – 0.2 – 0.2 – 2.0 (four cycles)
POSITIVE INDICATION TONE	425	CONTINUOUS
NEGATIVE INDICATION TONE	425	0.25 – 0.25

TONE	FREQUENCY (Hz)	CADENCE (Seconds)
CUBA		
DIAL TONE I	600×120//425	CONTINUOUS
DIAL TONE II	425	0.75 – 0.75 – 0.25 – 0.25
SECOND DIAL TONE I	425+330 ³⁾	CONTINUOUS
SECOND DIAL TONE II	1050 ⁶⁾	CONTINUOUS
RINGING TONE I	440+480//440+620//480+620	2.0 – 4.0
RINGING TONE II	425	1.0 – 4.0
RINGING TONE III	420×40	1.0 – 2.0
BUSY TONE	600×120//620+480//425	0.5 – 0.5
CONGESTION TONE	600×120	0.25 – 0.25
SPECIAL INFORMATION TONE	950/1400/1800	(3×0.33 – 2×0.03) – 1.0
NUMBER UNOBTAINABLE TONE	520	0.4 – 0.12 – 2×(0.12 – 0.12)
CYPRUS		
DIAL TONE	350+450	CONTINUOUS
RINGING TONE I	425	1.5 – 3.0
RINGING TONE II	400×25	0.4 – 0.2 – 0.4 – 2.0
BUSY TONE	425	0.5 – 0.5
CONGESTION TONE	425	0.25 – 0.25
WARNING TONE – OPERATOR INTERVENING	1400	0.5 – 14.0
NUMBER UNOBTAINABLE TONE	425	2.5 – 0.5
WAITING TONE	425	0.2 – 0.6
PAYPHONE RECOGNITION TONE	1638/1206/943	3×(0.068 – 0.068)
CZECH Rep.		
DIAL TONE I	425	CONTINUOUS
DIAL TONE II	425	0.33 – 0.33 – 0.66 – 0.66
DIAL TONE III	425	0.165 – 0.165 – 0.660 – 0.660
RINGING TONE	425	1.0 – 4.0
BUSY TONE I	425	0.333 – 0.333
BUSY TONE II	425	0.167 – 0.167
BUSY TONE III	425	0.165 – 0.165 – 0.165 – 0.330
SPECIAL INFORMATION TONE	950/1400/1800	(3×0.33 – 2×0.03) – 1.0
WAITING TONE	425	0.33 – 5.0
CONNECTION TONE	425	0.05 – 0.05
OFFERING TONE	425 ⁶⁾	0.33 – 0.33 – 0.33 – 1.5
DENMARK		
DIAL TONE	425	CONTINUOUS
RINGING TONE	425	1.0 – 4.0
BUSY TONE	425	0.25 – 0.25
CONGESTION TONE	425	0.25 – 0.25
SPECIAL INFORMATION TONE	950/1400/1800	3×0.333 – 1.0
WARNING TONE – OPERATOR INTERVENING	150	0.05 – 0.5
NUMBER UNOBTAINABLE TONE	950/1400/1800	3×0.33 – 1.0
PAY TONE	950/1400/1800	3×0.22 – 1.0
PAYPHONE RECOGNITION TONE	1477+941/1400+950	0.2 – 0.2 – 0.2 – 2.0
DIEGO GARCIA		
DIAL TONE	350/440	CONTINUOUS
BUSY TONE	480/620	interrupted at 60 ipm
RINGING TONE	440/480	1.0 – 3.0
NUMBER UNOBTAINABLE TONE	480/620	interrupted at 120 ipm
DJIBOUTI		
DIAL TONE	425	CONTINUOUS
RINGING TONE	425	1.5 – 3.5
BUSY TONE	425	0.5 – 0.5
ROUTE TONE	425	0.05 – 0.05

TONE	FREQUENCY (Hz)	CADENCE (Seconds)
DOMINICA (Commonwealth of)		
DIAL TONE	350+440	CONTINUOUS
RECALL DIAL TONE	350+440	3×(0.1 – 0.1) – CONTINUOUS
RINGING TONE	440+480	2.0 – 4.0
BUSY TONE	480+620	0.5 – 0.5
CONGESTION TONE	480+620	0.25 – 0.25
SPECIAL INFORMATION TONE	950/1400/1800	3×0.33 – 1.0
WARNING TONE – OPERATOR INTERVENING	450	0.2 – 0.2 – 0.65 – 0.2
NUMBER UNOBTAINABLE TONE	480+620	0.25 – 0.25
WAITING TONE	440	1×(0.5 – 10.0 – 0.5)
PAYPHONE RECOGNITION TONE	1600/1143	0.2 – 0.2 – 0.2 – 2.0
DOMINICAN Rep.		
DIAL TONE I	50	CONTINUOUS
DIAL TONE II	33	0.0166 – 0.0166
RINGING TONE	400//450	0.4 – 0.2 – 0.4 – 2.2
BUSY TONE I	400	0.8 – 0.8
BUSY TONE II	400	0.375 – 0.375
CONGESTION TONE I	400	0.8 – 0.8
CONGESTION TONE II	400	0.375 – 0.375
NUMBER UNOBTAINABLE TONE	400	CONTINUOUS
ECUADOR		
DIAL TONE	425	15.0
RINGING TONE	425	1.2 – 4.65
BUSY TONE	425	0.33 – 0.33
CONGESTION TONE	425	0.33 – 0.33
WAITING TONE	425	0.2 – 0.6
EGYPT		
RINGING TONE	425×50	2.0 – 1.0
BUSY TONE	425×50	1.0 – 4.0
CONGESTION TONE	450	0.5 – 0.5
SPECIAL INFORMATION TONE	950/1400/1800	0.33 – 0.33 – 0.33 – 0.33 – 0.33 – 0.33
INTRUSION TONE	450	0.5 – 0.5
PAYPHONE RECOGNITION TONE	1100+1750/750+1450	0.2 – 0.2 – 0.2 – 2.0
EL SALVADOR		
DIAL TONE	425	CONTINUOUS
RINGING TONE	425	1.2 – 5.0
BUSY TONE	425	0.333 – 0.333
ESTONIA		
DIAL TONE	425	CONTINUOUS
RINGING TONE	425	1.0 – 4.0
BUSY TONE	425	0.3 – 0.3
CONGESTION TONE	425	0.2 – 0.2
SPECIAL INFORMATION TONE	950/1400/1800	3×0.33 – 1.0
WARNING TONE – OPERATOR INTERVENING	425	0.2 – 0.3 – 0.2 – 1.3
WAITING TONE	950/1400/1800	3×0.33 – 0.3
ETHIOPIA		
DIAL TONE	425	CONTINUOUS
RINGING TONE	425	1.0 – 4.0
BUSY TONE	425	0.4 – 0.4
SPECIAL INFORMATION TONE	950/1400/1800	3×0.333 – 1.0
INTRUSION TONE	425	0.5 – 0.2
WAITING TONE	425	0.2 – 0.6

TONE	FREQUENCY (Hz)	CADENCE (Seconds)
FALKLAND ISLANDS		
DIAL TONE	350+450	CONTINUOUS
RINGING TONE	400+450	0.4 – 0.2
BUSY TONE	400	0.375 – 0.375
CONGESTION TONE	400	0.4 – 0.35 – 0.255 – 0.525
SPECIAL INFORMATION TONE	950/1400/1800	3×0.33 – 1.0
WARNING TONE – OPERATOR INTERVENING	1000	0.1 – 0.1
NUMBER UNOBTAINABLE TONE	400	CONTINUOUS
FAROE ISLANDS		
DIAL TONE	425	CONTINUOUS
RINGING TONE	425	1.0 – 4.0
BUSY TONE	425	0.25 – 0.25
CONGESTION TONE	425	0.25 – 0.25
NUMBER UNOBTAINABLE TONE	950/1400/1800	3×0.33 – 1.0
FIJI		
DIAL TONE	33//50	CONTINUOUS
DIAL TONE (PABX)	33 1/3	CONTINUOUS
RINGING TONE	133×16 2/3//400×25	0.4 – 0.2 – 0.4 – 2.0
RINGING TONE (PABX)	400×16 2/3	0.4 – 0.2 – 0.4 – 2.0
BUSY TONE	400	0.75 – 0.75
BUSY TONE (PABX)	400	0.375 – 0.375
WARNING TONE – OPERATOR INTERVENING	400	0.5 – 0.17 – 0.17 – 0.17
NUMBER UNOBTAINABLE TONE	400	2.5 – 0.5
NUMBER UNOBTAINABLE TONE (PABX)	400	2.5 – 0.5
FINLAND		
DIAL TONE	425	CONTINUOUS
DIAL TONE (PABX)	425	2×(0.2 – 0.3) – 0.2 – 0.8
SPECIAL DIAL TONE	425	0.65 – 0.025
RINGING TONE	425	1.0 – 4.0
BUSY TONE	425	0.3 – 0.3
CONGESTION TONE	425	0.2 – 0.2
SPECIAL INFORMATION TONE	950/1400/1800	3×0.333 – 1.0
WARNING TONE – OPERATOR INTERVENING	425	0.2 – 0.3 – 0.2 – 1.3
QUEUE TONE	950/950/1400	0.65 – 0.325 – 0.325 – 1.3 – 2.6
WAITING TONE	425	0.15 – 0.15 – 0.15 – 8.0
FRANCE		
DIAL TONE	440//330+440	CONTINUOUS
RINGING TONE	440	1.5 – 3.5
BUSY TONE	440	0.5 – 0.5
SPECIAL INFORMATION TONE	950/1400/1800	(3×0.3 – 2×0.03) – 1.0
ROUTE TONE ²²⁾	440	0.05 – 0.05
FRENCH POLYNESIA		
DIAL TONE	440//330+440	CONTINUOUS
RINGING TONE	440	1.5 – 3.5
BUSY TONE	440	0.5 – 0.5
SPECIAL INFORMATION TONE	950/1400/1800	(3×0.3 – 2×0.03) – 1.0
ROUTE TONE ²²⁾	440	0.05 – 0.05
GABON		
DIAL TONE I	440	15.0
DIAL TONE II	425	CONTINUOUS
SECOND DIAL TONE	440+330	7.0
RINGING TONE I	440	1.5 – 3.0
RINGING TONE II	425	1.5 – 3.5

TONE	FREQUENCY (Hz)	CADENCE (Seconds)
GABON (<i>continuation</i>)		
BUSY TONE I	440	0.5 – 0.5
BUSY TONE II	425	0.5 – 0.5
SPECIAL INFORMATION TONE	900/1380/1860	0.35 – 0.30 – 0.35 – 1.0
ROUTE TONE I	440	0.05 – 0.05
ROUTE TONE II	425	0.05 – 0.05
GAMBIA		
DIAL TONE	425	CONTINUOUS
RINGING TONE	425	1.0 – 4.0
BUSY TONE	425	0.5 – 0.5
GERMANY		
DIAL TONE	425//450	CONTINUOUS
SPECIAL DIAL TONE	425+400	CONTINUOUS
RINGING TONE I ⁸⁾	425//450	0.25 – 4.0 – 1.0 – 4.0 – 1.0 – 4.0
RINGING TONE II ⁸⁾	425//450	0.5 – 4.0 – 1.0 – 4.0 – 1.0 – 4.0
RINGING TONE III	425//450 ¹⁹⁾	1.0 – 5.0
RINGING TONE IV	450 ¹⁹⁾	1.0 – 9.0
BUSY TONE I	425	0.48 – 0.48
BUSY TONE II	425//450	0.15 – 0.475
CONGESTION TONE I	425	0.24 – 0.24
CONGESTION TONE II	425//450	0.15 – 0.475
SPECIAL INFORMATION TONE	950/1400/1800	3×0.33 – 1.0
WARNING TONE – OPERATOR INTERVENING	425//450	0.24 – 0.24 – 0.24 – 1.28
WAITING TONE ¹⁴⁾	425	0.2 – 0.2 – 0.2 – 5.0
PAYPHONE RECOGNITION TONE I	1633/1336	0.2 – 0.2 – 0.2 – 2.0 (five cycles)
PAYPHONE RECOGNITION TONE II	1366/1024	0.2 – 0.2 – 0.2 – 2.2 (five cycles)
PAYPHONE RECOGNITION TONE III	1336/1024	2.2 – 0.2 – 0.2 – 0.2 (six cycles)
PAYPHONE RECOGNITION TONE IV	1645+857/1215+935	0.2 – 0.2 – 0.2 – 2.0 (five cycles)
GHANA		
DIAL TONE	400	CONTINUOUS
RINGING TONE	400	1.0 – 4.0
BUSY TONE	400	0.25 – 0.25
CONGESTION TONE	400	0.5 – 0.5
NUMBER UNOBTAINABLE TONE	400	0.075 – 0.1 – 0.075 – 0.1 – 0.075 – 0.4
WAITING TONE	400	0.5 – 0.3 – 0.2 – 0.3 – 0.2 – 3.0
HOLDING TONE	400	0.5 – 0.5 – 0.5 – 0.25
GIBRALTAR		
DIAL TONE	350+400	CONTINUOUS
RINGING TONE	400+450	0.4 – 0.2 – 0.4 – 2.0
BUSY TONE	400	0.375 – 0.375
CONGESTION TONE	400	0.4 – 0.35 – 0.225 – 0.525
NUMBER UNOBTAINABLE TONE	400	CONTINUOUS
WAITING TONE	400	0.1 – 3.0
GREECE		
DIAL TONE	425//450	0.2 – 0.3 – 0.7 – 0.8
SPECIAL DIAL TONE (SPC)	400/425//425/450	0.2 – 0.3 – 0.7 – 0.8
RINGING TONE	425//450	1.0 – 4.0
BUSY TONE	425//450	0.3 – 0.3
CONGESTION TONE (SPC)	425	0.15 – 0.15
SPECIAL INFORMATION TONE (SPC)	950/1450/1800	3×0.33 – 1.0
WAITING TONE (SPC)	425	0.3 – 10.0 – 0.3 – 10.0
INTRUSION TONE	425//450	0.15 – 0.25 – 0.15 – 1.45
HOLDING TONE (SPC)	900	0.5 – 0.5
VALID TONE (RADIO-PAGING)	450	0.1 – 0.1 – 0.1 – 0.7
NUMBER UNOBTAINABLE TONE (RADIO-PAGING)	450	CONTINUOUS

TONE	FREQUENCY (Hz)	CADENCE (Seconds)
GREENLAND		
DIAL TONE	445//425 ³³⁾	CONTINUOUS
SECOND DIAL TONE	445//425 ³³⁾	CONTINUOUS
RINGING TONE	445//425 ³³⁾	1.0 – 4.0
BUSY TONE	445//425 ³³⁾	0.25 – 0.25
CONGESTION TONE	445//425 ³³⁾	0.25 – 0.25
NUMBER UNOBTAINABLE TONE I	950/1400/1800	3×0.33 – 1.0
NUMBER UNOBTAINABLE TONE II	425 ³³⁾	0.25 – 0.25
PAY TONE	950/1400/1800	3×0.22 – 1.0
GRENADA		
RINGING TONE	440+480	2.0 – 4.0
BUSY TONE	460+620	0.5 – 0.5
CONGESTION TONE		recorded announcement
GUADELOUPE (French Dep.)		
DIAL TONE	440//330+440	CONTINUOUS
RINGING TONE	440	1.5 – 3.5
BUSY TONE	440	0.5 – 0.5
SPECIAL INFORMATION TONE	950/1400/1800	(3×0.3 – 2×0.03) – 1.0
ROUTE TONE ²²⁾	440	0.05 – 0.05
GUIANA (French Dep.)		
DIAL TONE	440//330+440	CONTINUOUS
RINGING TONE	440	1.5 – 3.5
BUSY TONE	440	0.5 – 0.5
SPECIAL INFORMATION TONE	950/1400/1800	(3×0.3 – 2×0.03) – 1.0
ROUTE TONE ²²⁾	440	0.05 – 0.05
GUINEA		
RINGING TONE	450	0.4 – 0.2
BUSY TONE	450	0.2 – 0.2
GUYANA		
DIAL TONE	360/400	1.3 – 0.3 – 0.2 – 0.5
RINGING TONE	425	1.75 – 3.25
BUSY TONE	425	0.5 – 0.5
CONGESTION TONE	425	0.5 – 0.5
WAITING TONE	480	0.5 – 18.0
HONDURAS		
DIAL TONE	440	CONTINUOUS
SECOND DIAL TONE	440	0.135 – 0.135
RINGING TONE	440	0.5 – 4.0 – 2.0 – 4.0
BUSY TONE	440	0.5 – 0.5
CONGESTION TONE	440	0.25 – 0.25
WAITING TONE	440	0.5 – 0.5 – 0.2 – 2.7
HONGKONG		
DIAL TONE	350+440	CONTINUOUS
RECALL DIAL TONE	350+440	3×(0.1 – 0.1)+CONTINUOUS
RINGING TONE	440+480	0.4 – 0.2 – 0.4 – 3.0
BUSY TONE	480+620	0.5 – 0.5
CONGESTION TONE	480+620	0.25 – 0.25
NUMBER UNOBTAINABLE TONE	480+620	CONTINUOUS
WAITING TONE	440	3×(0.5 – 0.5) – 8.0

TONE	FREQUENCY (Hz)	CADENCE (Seconds)
HUNGARY		
DIAL TONE	425	CONTINUOUS
SECOND DIAL TONE	425	CONTINUOUS
SPECIAL DIAL TONE	350+375+400	CONTINUOUS
RINGING TONE	425	1.2 – 3.7
BUSY TONE	425	0.3 – 0.3
SPECIAL INFORMATION TONE	950/1400/1800	3×0.333 – 1.0
WARNING TONE – OPERATOR INTERVENING	425	0.3 – 0.3 – 0.3 – 1.5
WAITING TONE	425+450	0.3 – 0.3
PAYPHONE RECOGNITION TONE	1100/750	0.2 – 0.2 – 0.2 – 2.0
POSITIVE INDICATION TONE	300+420	1.0 – 0.2 + announcement
NEGATIVE INDICATION TONE	300+420	0.2 – 0.2 + announcement
OFFERING TONE	425	0.3 – 0.3 – 0.3 – 1.5
ICELAND		
DIAL TONE	425	CONTINUOUS
SPECIAL DIAL TONE ¹⁸⁾	425	0.4 – 0.04
RINGING TONE	425	1.2 – 4.7
BUSY TONE	425	0.25 – 0.25
CONGESTION TONE	425	0.25 – 0.25
NUMBER UNOBTAINABLE TONE		recorded announcement
WAITING TONE	425	0.2 – 0.6 – 0.2 – 5.0
PAYPHONE RECOGNITION TONE	1633/1209	0.2 – 0.2 – 0.2 – 2.0
INDIA		
DIAL TONE	33//50//400×25	CONTINUOUS
RINGING TONE I	400×25	0.4 – 0.2 – 0.4 – 2.6
RINGING TONE II	133//400×25	0.4 – 0.2 – 0.4 – 2.0
BUSY TONE I	400	0.75 – 0.75
BUSY TONE II	400	0.6 – 0.6
NUMBER UNOBTAINABLE TONE I	400	CONTINUOUS
NUMBER UNOBTAINABLE TONE II	400	2.5 – 0.5
INDONESIA		
DIAL TONE	425	CONTINUOUS
RINGING TONE	425	1.0 – 4.0
BUSY TONE	425	0.5 – 0.5
CONGESTION TONE	425	0.25 – 0.25
SPECIAL INFORMATION TONE	950/1400/1800	(3×0.33 – 2×0.03) – 1.0
NUMBER UNOBTAINABLE TONE	425	2.0 – 0.5
PAYPHONE RECOGNITION TONE	1200/800	0.2 – 0.2 – 0.2 – 2.0
OFFERING TONE ⁶⁾	425	0.5 – 0.5 – 0.5 – 1.0
IRAN		
DIAL TONE	425	CONTINUOUS
SECOND DIAL TONE	400/425	CONTINUOUS
RECALL DIAL TONE	425	CONTINUOUS
RINGING TONE	425	1.0 – 4.0
BUSY TONE	425	0.5 – 0.5
CONGESTION TONE	425	0.25 – 0.25
SPECIAL INFORMATION TONE	950/1400/1800	3×0.33 – 1.0
WAITING TONE	425	0.2 – 0.2 – 0.2 – 10.0
HOLDING TONE	950/950/1400	0.65 – 0.325 – 0.325 – 1.3 – 2.6
OFFERING TONE ⁶⁾	425	0.15 – 0.25 – 0.15 – 1.45
PREEMPTION TONE	1400	0.1 – 0.1 (three bursts)
PERMANENT SIGNAL TONE	1400	CONTINUOUS

TONE	FREQUENCY (Hz)	CADENCE (Seconds)
IRAQ		
RECALL DIAL TONE	133	0.4 – 0.2 – 0.4 – 1.5
RINGING TONE	400	CONTINUOUS
BUSY TONE	400	1.0 – 1.0
IRELAND		
DIAL TONE	400/425/450	CONTINUOUS
RINGING TONE	400//450//425×25	0.4 – 0.2 – 0.4 – 2.0
BUSY TONE	425	0.5 – 0.5
SPECIAL INFORMATION TONE	950/1400/1800	3×0.333 – 1.0
NUMBER UNOBTAINABLE TONE	400//425	6.0 – 1.0
ROUTE TONE	425	0.06 – 0.06
PAYPHONE RECOGNITION TONE	1100+1750/750+1450	0.2 – 0.2 – 0.2 – 2.0
ISRAEL		
DIAL TONE	400//425//440	CONTINUOUS
SECOND DIAL TONE	400//440	3×(0.1 – 0.1)+CONTINUOUS
RECALL DIAL TONE	400//440	3×(0.1 – 0.1)+CONTINUOUS
SPECIAL DIAL TONE	400	1.0 – 0.25
RINGING TONE	400//425//440	1.0 – 3.0
BUSY TONE	400//425//440	0.5 – 0.5
SPECIAL INFORMATION TONE	975/1400/1800	3×0.333 – 1.0 + announcement
NUMBER UNOBTAINABLE TONE	975/1400/1800	3×0.333 – 1.0 + announcement
WAITING TONE	400//440	0.15 – 10.0 – 0.15 (only once)
CALLER WAITING TONE	400//440	2×(0.1 – 0.1) – 0.6 – 3.0
CONFIRMATION TONE I	400//440	0.15 – 0.15 – 0.3 (only once)
CONFIRMATION TONE II	400	0.04 – 0.04
PAYPHONE RECOGNITION TONE	1209/452 ⁸⁾	0.2 – 0.2 – 0.2 – 2.0
SEARCH TONE ²⁸⁾	1004	0.01 – 1.0
HOLDING TONE ²⁹⁾	400	0.05 – 2.0
ITALY		
DIAL TONE	425	0.6 – 1.0 – 0.2 – 0.2
RINGING TONE	425	1.0 – 4.0
BUSY TONE	425	0.2 – 0.2
JAMAICA		
DIAL TONE	350+440	CONTINUOUS
RINGING TONE I	440×480	2.0 – 4.0
RINGING TONE II	440+480	1.5 – 4.5
RINGING TONE III	440+480	1.0 – 4.0
RINGING TONE IV	400//133	0.4 – 0.2 – 0.4 – 2.0
BUSY TONE I	400	0.75 – 0.75
BUSY TONE II	480+620	0.5 – 0.5
CONGESTION TONE I	480+620	0.3 – 0.2
CONGESTION TONE II	480+620	0.2 – 0.3
NUMBER UNOBTAINABLE TONE	400	3.0 – 0.5
RECORD TONE	480+620	0.25 – 0.25
JAPAN		
DIAL TONE	400	CONTINUOUS
DIAL TONE (PABX)	400	0.25 – 0.25
SECOND DIAL TONE I ¹⁷⁾	400	0.125 – 0.125
SECOND DIAL TONE II	440	0.125 – 0.125
SECOND DIAL TONE III	400	0.15 – 0.15
RECALL DIAL TONE	350+440	CONTINUOUS
RINGING TONE	400×16	1.0 – 2.0

TONE	FREQUENCY (Hz)	CADENCE (Seconds)
JAPAN (<i>continuation</i>)		
RINGING TONE (PABX)	400×20	1.0 – 2.0
BUSY TONE ¹⁷⁾	400	0.5 – 0.5
CONGESTION TONE	400	0.5 – 0.5
SPECIAL INFORMATION TONE	400	0.1 – 0.1
WAITING TONE I	440	0.1 – 0.1 – 0.1 – 1.0
WAITING TONE II	400×16/400	0.5 – 0.5 – 0.5 – 2.5
CALL WAITING TONE	400×16/400	0.5 – 0.0–4.0 – 0.05 – 0.45 – 0.05 – 3.45 – 0.05 – 0.45 – 0.05 – 3.45
PAY TONE I	250	1.0
PAY TONE II	250	0.5
POSITIVE INDICATION TONE	400	0.125 – 0.125 – 0.125 – 0.625
JORDAN		
DIAL TONE	420×40//400+440	CONTINUOUS
RINGING TONE I	420×40//440+400	1.2 – 4.8
RINGING TONE II	400+16 2/3	0.4 – 0.2 – 0.4 – 2.0
BUSY TONE I	400	0.75 – 0.75
BUSY TONE II	420×40//440+400	0.5 – 0.5
CONGESTION TONE I	420×40	0.5 – 0.5
CONGESTION TONE II	400+440	0.25 – 0.25
NUMBER UNOBTAINABLE TONE	600×120//540+660	2.5 – 0.5
WAITING TONE	420×40//400+440	0.5 – 2×(0.3 – 0.2) – 3.0
CONFIRMATION TONE	400	20×(0.125 – 0.125) – CONTINUOUS
HOLDING TONE	420×40//400+440	0.5 – 0.5 – 0.5 – 0.25
KENYA		
DIAL TONE	425//50	CONTINUOUS
SECOND DIAL TONE	425	1.0 – 0.2 – 0.75 – 0.75
RINGING TONE	425	1.0 – 4.0 – 1.0 – 2.0 – 1.0 – 5.0 – 0.4 – 0.2
BUSY TONE	425	0.5 – 0.5 – 0.4 – 0.2
CONGESTION TONE	425	0.2 – 0.2 – 0.4 – 0.35 – 0.225 – 0.525
WARNING TONE – OPERATOR INTERVENING	425	0.2 – 0.2 – 0.2 – 1.4
NUMBER UNOBTAINABLE TONE I	950/1400/1800	3×0.33 – 1.0
NUMBER UNOBTAINABLE TONE II	400	CONTINUOUS
WAITING TONE	425	CONTINUOUS
KIRIBATI		
DIAL TONE	425	CONTINUOUS
RINGING TONE	425	0.4 – 0.2 – 0.4 – 2.0
BUSY TONE	425	0.5 – 0.5
CONGESTION TONE	425	0.5 – 0.5
NUMBER UNOBTAINABLE TONE	425	0.25 – 0.25
WAITING TONE	425	0.4 – 0.2 – 0.4 – 2.0
KOREA (Rep. of)		
DIAL TONE	350+440	CONTINUOUS
RECALL DIAL TONE I	400//450	1.0 – 4.0
RECALL DIAL TONE II	400//450	1.0 – 2.0
RINGING TONE	440+480	1.0 – 2.0
BUSY TONE	480+620	0.5 – 0.5
CONGESTION TONE	480+620	0.3 – 0.2
WARNING TONE – OPERATOR INTERVENING	392/494/587	2×(0.5 – 0.5 – 1.5)
NUMBER UNOBTAINABLE TONE	450	0.2 – 0.1 – 0.2 – 1.5
WAITING TONE	350+440	0.25 – 0.25 – 0.25 – 3.25
INTERCEPT TONE	350+440	0.125 – 0.25 – 0.125 – 1.5

TONE	FREQUENCY (Hz)	CADENCE (Seconds)
KUWAIT		
DIAL TONE	425	CONTINUOUS
SPECIAL DIAL TONE	425 ¹⁶⁾	0.4 – 0.04
RINGING TONE I	425	1.0 – 4.0
RINGING TONE II	400	1.0 – 3.0
BUSY TONE	425	0.5 – 0.5
CONGESTION TONE	425	0.5 – 0.5
WARNING TONE – OPERATOR INTERVENING	425 ¹⁵⁾	1.0 – 1.5 – 0.4 – 1.5
INTRUSION TONE	425 ⁶⁾	0.5 – 0.2 – 0.2 – 0.2
NUMBER UNOBTAINABLE TONE	400	CONTINUOUS
INTERCEPT TONE	950/1400/1800	3×0.333 – 1.0
LINE LOCKOUT TONE	425	0.5 – 0.5
REFUSAL TONE	425	0.6 – 0.6
ACCEPTANCE TONE	425	CONTINUOUS
KYRGYZSTAN		
RINGING TONE	425	0.8 – 3.2
BUSY TONE	425	0.4 – 0.4
CONGESTION TONE	425	0.4 – 0.4
NUMBER UNOBTAINABLE TONE	425	0.4 – 0.4
LAO P.D.R.		
DIAL TONE	425	CONTINUOUS
SPECIAL DIAL TONE	425	0.4 – 0.04
RINGING TONE	425	1.0 – 4.0
BUSY TONE	425	1.0 – 1.0
CONGESTION TONE	425	0.375 – 0.375
NUMBER UNOBTAINABLE TONE	425	2.5 – 0.5
WAITING TONE	425	0.4 – 0.4
CONFIRMATION TONE	950 ¹³⁾	CONTINUOUS
LEBANON		
RINGING TONE	435	1.2 – 4.4
BUSY TONE	435	0.4 – 0.2
LIBERIA		
DIAL TONE	425	CONTINUOUS
RINGING TONE	425//450	1.0 – 4.0
BUSY TONE	425	0.5 – 0.5
NUMBER UNOBTAINABLE TONE	425	0.6 – 0.2 – 3×(0.2 – 0.2)
LITHUANIA		
DIAL TONE	425	CONTINUOUS
RINGING TONE	425	0.8 – 3.2
BUSY TONE	425	0.4 – 0.4
WAITING TONE	950/1400/1800	3×0.333 – 1.0
LUXEMBOURG		
DIAL TONE	425//450	CONTINUOUS
RINGING TONE	425	1.0 – 4.0
BUSY TONE	425//450	0.5 – 0.5
CONGESTION TONE	425//450	0.25 – 0.25
SPECIAL INFORMATION TONE	950/1400/1800	3×0.333 – 1.0
WARNING TONE – OPERATOR INTERVENING	425//450	0.25 – 0.25 – 0.25 – 1.25
INTERCEPT TONE	1190/1280	0.25 – 0.25
PAYPHONE RECOGNITION TONE	1100+1750/750+1450	0.2 – 0.2 – 0.2 – 2.0
MACAU		
DIAL TONE	425	CONTINUOUS
SPECIAL DIAL TONE	425	1.8 – 0.2
RINGING TONE	425	1.0 – 4.0

TONE	FREQUENCY (Hz)	CADENCE (Seconds)
MACAU (<i>continuation</i>)		
BUSY TONE	425	0.5 – 0.5
CONGESTION TONE	425	0.25 – 0.25
WAITING TONE	425	0.2 – 0.6
INTERCEPT TONE	950/1400/1800	3×0.333 – 1.0
PAYPHONE RECOGNITION TONE	1100+1750/750+1450	0.2 – 0.2 – 0.2 – 2.0
MADAGASCAR		
RINGING TONE	25	1.66 – 3.33
BUSY TONE	450	0.5 – 0.5
WAITING TONE	450	0.125 – 0.125
MALAWI		
DIAL TONE	425	CONTINUOUS
RINGING TONE I	425	1.0 – 4.0
RINGING TONE II	400//133	0.4 – 0.2 – 0.4 – 2.0
BUSY TONE I	400	0.75 – 0.75
BUSY TONE II	525	0.5 – 0.5
BUSY TONE III	400	0.4 – 0.333
NUMBER UNOBTAINABLE TONE	400	2.5 – 0.5
MALAYSIA		
DIAL TONE	425	CONTINUOUS
SECOND DIAL TONE	425	CONTINUOUS
SPECIAL DIAL TONE	425	0.25 – 0.25 – 0.25 – 0.25 – 2.0
RINGING TONE	425	0.4 – 0.2 – 0.4 – 2.0
BUSY TONE	425	0.5 – 0.5
CONGESTION TONE	425	0.25 – 0.25
SPECIAL INFORMATION TONE	900/1400/1800	3×1.0 – 1.0
WARNING TONE – OPERATOR INTERVENING	425	0.5 – 0.2 – 0.2 – 0.2
WARNING TONE – END OF PERIOD	900	0.1 – 0.1 – 0.1 – 0.1 – 0.1 (only once)
NUMBER UNOBTAINABLE TONE	425	2.5 – 0.5
WAITING TONE	425	1.0 – 10.0 – 0.5 – 0.25 – 0.5 – 10.0 – 0.5 – 0.25
LINE LOCKOUT TONE	425	0.5 – 0.5
MALDIVES		
DIAL TONE	400/50	CONTINUOUS
RINGING TONE	400	0.4 – 0.2 – 0.4 – 2.0
BUSY TONE	400	0.5 – 0.5
CONGESTION TONE	400	0.25 – 0.25
NUMBER UNOBTAINABLE TONE	400	CONTINUOUS
WAITING TONE	400	1.0 – 10.0
MALI		
DIAL TONE	425	CONTINUOUS
SECOND DIAL TONE	425+330	CONTINUOUS
SPECIAL DIAL TONE	425	0.40 – 0.04
RINGING TONE	425	1.7 – 3.3
BUSY TONE	425	0.5 – 0.5
SPECIAL INFORMATION TONE	900/1400/1800	3×0.33 – 0.05 – 0.03) – 1.0
ROUTE TONE	425	0.05 – 0.04
ACCEPTANCE TONE	950	CONTINUOUS
MALTA		
RINGING TONE	400+450//400×25//400×16 2/3	0.4 – 0.2 – 0.4 – 2.0
BUSY TONE	400	0.375 – 0.375
CONGESTION TONE	400	0.4 – 0.35 – 0.225 – 0.525
NUMBER UNOBTAINABLE TONE	400	CONTINUOUS
PAY TONE	400	0.15 – 0.15

TONE	FREQUENCY (Hz)	CADENCE (Seconds)
MARTINIQUE (French Dep.)		
DIAL TONE	440//330+440	CONTINUOUS
RINGING TONE	440	1.5 – 3.5
BUSY TONE	440	0.5 – 0.5
SPECIAL INFORMATION TONE	950/1400/1800	(3×0.3 – 2×0.03) – 1.0
ROUTE TONE ²²⁾	440	0.05 – 0.05
MAURITANIA		
DIAL TONE	425	CONTINUOUS
RINGING TONE	425	1.5 – 3.5
BUSY TONE	425	0.5 – 0.5
ROUTE TONE	425	0.05 – 0.05
MAURITIUS		
DIAL TONE	425	CONTINUOUS
RINGING TONE	425	1.0 – 4.0
BUSY TONE	425	0.75 – 0.75
ROUTE TONE	425	0.05 – 0.05
MAYOTTE		
DIAL TONE	440//330+440	CONTINUOUS
RINGING TONE	440	1.5 – 3.5
BUSY TONE	440	0.5 – 0.5
SPECIAL INFORMATION TONE	950/1400/1800	(3×0.3 – 2×0.03) – 1.0
ROUTE TONE ²²⁾	440	0.05 – 0.05
MEXICO		
DIAL TONE	425	CONTINUOUS
RINGING TONE	425	1.0 – 4.0
BUSY TONE	425	0.25 – 0.25
CONGESTION TONE	425	0.25 – 0.25
WARNING TONE – OPERATOR INTERVENING	425	0.5 – 0.17 – 0.17 – 0.17
MOLDOVA		
RINGING TONE	425	0.8 – 3.2
BUSY TONE	425	0.4 – 0.4
CONGESTION TONE	425	0.4 – 0.4
MONTSERRAT		
DIAL TONE	350+440	CONTINUOUS
RECALL DIAL TONE	350+440	3×(0.1 – 0.1) – CONTINUOUS
RINGING TONE	440+480	2.0 – 4.0
BUSY TONE	480+620	0.5 – 0.5
CONGESTION TONE	480+620	0.25 – 0.25
SPECIAL INFORMATION TONE	950/1400/1800	3×0.33 – 1.0
WARNING TONE – OPERATOR INTERVENING	450	0.2 – 0.2 – 0.65 – 0.2
NUMBER UNOBTAINABLE TONE	480+620	0.25 – 0.25
WAITING TONE	440	1×(0.5 – 10.0 – 0.5)
PAYPHONE RECOGNITION TONE	1600/1143	0.2 – 0.2 – 0.2 – 2.0
MOROCCO		
DIAL TONE	425	CONTINUOUS
SECOND DIAL TONE	660/440/590/740	0.5 – 0.5 – 0.5 – 0.3 – 0.2
RINGING TONE	425	1.66 – 3.33
BUSY TONE	425	0.5 – 0.5
ROUTE TONE	425	0.05 – 0.05
MOZAMBIQUE		
RINGING TONE	400	1.0 – 5.0
BUSY TONE	400	0.5 – 0.5
NUMBER UNOBTAINABLE TONE	400	0.2 – 0.2

TONE	FREQUENCY (Hz)	CADENCE (Seconds)
NAMIBIA		
DIAL TONE	440×33	CONTINUOUS
RINGING TONE	400×33	0.4 – 0.2 – 0.4 – 2.0
BUSY TONE I	400	0.75 – 0.75
BUSY TONE II	400	0.5 – 0.5
BUSY TONE III	400	0.25 – 0.25
CONGESTION TONE	400	0.25 – 0.25
NUMBER UNOBTAINABLE TONE	400	2.5 – 0.5
PAYPHONE RECOGNITION TONE	770/1209	0.125 – 1.5
PAY TONE	400	0.125 – 0.125
NAURU		
DIAL TONE	400	CONTINUOUS
DIAL TONE (PABX)	33	CONTINUOUS
RECALL DIAL TONE (PABX)	33	CONTINUOUS
RINGING TONE	400	1.0 – 4.0
RINGING TONE (PABX)	425×25	0.4 – 0.2 – 0.4 – 2.0
BUSY TONE	400	0.5 – 0.5
BUSY TONE (PABX)	425	0.375 – 0.375
CONGESTION TONE (PABX)	425	0.375 – 0.375
NUMBER UNOBTAINABLE TONE	400	0.75 – 0.25 – 0.25 – 0.25
NEPAL		
DIAL TONE	425	CONTINUOUS
RINGING TONE	425	1.1 – 3.1
BUSY TONE	425	0.25 – 0.25
CONGESTION TONE	425	0.175 – 0.175
NUMBER UNOBTAINABLE TONE	425	0.25 – 0.5
NETHERLANDS		
DIAL TONE	425//450	CONTINUOUS
SPECIAL DIAL TONE	425//450	0.5 – 0.05
RINGING TONE	425//450	1.0 – 4.0
BUSY TONE I ⁹⁾	425//450	0.5 – 0.5
BUSY TONE II ¹²⁾	425//450	0.25 – 0.25
CONGESTION TONE	425//450	0.25 – 0.25
SPECIAL INFORMATION TONE	950/1400/1800	3×0.333 – 1.0
WAITING TONE	425//450	0.5 – 9.5
PAY TONE	770//850//950 ¹¹⁾	
POSITIVE INDICATION TONE	425//450	CONTINUOUS
NEGATIVE INDICATION TONE	425//450	0.0625 – 0.0625
NEW CALEDONIA		
DIAL TONE	440//330+440	CONTINUOUS
RINGING TONE	440	1.5 – 3.5
BUSY TONE	440	0.5 – 0.5
SPECIAL INFORMATION TONE	950/1400/1800	(3×0.3 – 2×0.03) – 1.0
ROUTE TONE ²²⁾	440	0.05 – 0.05
NEW ZEALAND		
DIAL TONE ¹⁷⁾	400	CONTINUOUS
RINGING TONE	400+450	0.4 – 0.2 – 0.4 – 2.0
BUSY TONE	400 ¹⁷⁾	0.5 – 0.5
CONGESTION TONE I	900 ⁴⁾	0.5 – 0.5
CONGESTION TONE II	400 ^{4) 17)}	0.25 – 0.25
NUMBER UNOBTAINABLE TONE	400 ¹⁷⁾	3×(0.75 – 0.1) – 0.75 – 0.4
WAITING TONE I	400+450	0.5
WAITING TONE II	400	0.25 – 0.25 – 0.25 – 3.25
WAITING TONE III	523/659	3×(0.2 – 3.0) – 0.2

TONE	FREQUENCY (Hz)	CADENCE (Seconds)
NEW ZEALAND (<i>continuation</i>)		
FUNCTION ACKNOWLEDGE TONE	440+450 ⁵⁾	2.0 – 0.4 – 0.2 – 0.4
PAYPHONE RECOGNITION TONE	1100+1750/750+1450	0.2 – 0.2 – 0.2 – 2.0
HOLDING TONE	400/400+450	0.5 – 0.5 – 0.5 – 0.25
NIGER		
DIAL TONE	440	CONTINUOUS
SECOND DIAL TONE	330//440	CONTINUOUS
RINGING TONE	440	1.7 – 3.3
BUSY TONE	440	0.5 – 0.5
CONGESTION TONE	440	0.5 – 0.5
ROUTE TONE	440	0.05 – 0.05
NIGERIA		
DIAL TONE	400//425//450	CONTINUOUS
SECOND DIAL TONE	425	CONTINUOUS
RECALL DIAL TONE	400//425	CONTINUOUS
RINGING TONE	400//425//450	2.0 – 4.0
BUSY TONE	400	0.5 – 0.5
CONGESTION TONE	400	0.25 – 0.25
SPECIAL INFORMATION TONE	400//33	0.2 – 1.5
WAITING TONE – OPERATOR INTERVENING	400	0.15 – 0.25 – 0.15 – 1.45
NUMBER UNOBTAINABLE TONE	450	5.5 – 0.5
WAITING TONE	425	2.0 – 4.0
HOLDING TONE	950/950/1400	0.65 – 0.325 – 0.325 – 1.3 – 2.6
NORWAY		
RINGING TONE I	425	1.0 – 4.0
RINGING TONE II	400//450	1.0 – 3.0
BUSY TONE I	425	0.5 – 0.5
BUSY TONE II	400//450	0.2 – 0.4
CONGESTION TONE	425	0.25 – 0.25
SPECIAL INFORMATION TONE	950/1400/1800	3×0.333 – 1.0
PAYPHONE RECOGNITION TONE	1477/941	0.2 – 0.2 – 0.2 – 2.0 (four cycles)
OMAN		
DIAL TONE	425	CONTINUOUS
SECOND DIAL TONE	425	CONTINUOUS
RINGING TONE	425	0.4 – 0.2 – 0.4 – 2.0
BUSY TONE	425	0.5 – 0.5
CONGESTION TONE	425	0.5 – 0.5
WARNING TONE – OPERATOR INTERVENING	425	0.5 – 0.17 – 0.17 – 0.17
NUMBER UNOBTAINABLE TONE	425	0.2 – 0.3
WAITING TONE	425	0.3 – 1.0
LINE LOCKOUT TONE	425	0.48 – 0.48
PAKISTAN		
RINGING TONE I	450	1.0 – 4.0
RINGING TONE II	400+16 2/3	0.4 – 0.2 – 0.4 – 2.0
BUSY TONE I	400	0.75 – 0.75
BUSY TONE II	450	0.4 – 0.675 – 0.13 – 0.17
PANAMA		
DIAL TONE	425	CONTINUOUS
RINGING TONE	425	1.20 – 4.65
BUSY TONE	425	0.32 – 4.65
CONGESTION TONE	425	0.32 – 4.65
SPECIAL INFORMATION TONE	425	0.4 – 0.04
WARNING TONE – OPERATOR INTERVENING	425	0.18 – 0.18 – 0.5 – 0.18
NUMBER UNOBTAINABLE TONE ³⁰⁾		

TONE	FREQUENCY (Hz)	CADENCE (Seconds)
PAPUA NEW GUINEA		
DIAL TONE	425//400×25//350+440	CONTINUOUS
SPECIAL DIAL TONE	425	0.4 – 0.04
RINGING TONE	425//400×25//400×16 2/3// 400+450//410×20	0.4 – 0.2 – 0.4 – 2.0
BUSY TONE	425//400	0.375 – 0.375
CONGESTION TONE	425//400 ²⁰⁾	0.375 – 0.375
SPECIAL INFORMATION TONE	950/1400/1800	3×0.33 – 1.01
WARNING TONE – OPERATOR INTERVENING	1400	0.5 – 11.5
NUMBER UNOBTAINABLE TONE	425//400	2.5 – 0.5
WAITING TONE	425	0.04 – 10.0 – 0.04 – 20.0 – 0.04 – 20.0
PAYPHONE RECOGNITION TONE I	1209/852	0.2 – 0.2 – 0.2 – 2.0 (four cycles)
PAYPHONE RECOGNITION TONE II	1336/941	0.2 – 0.2 – 0.2 – 2.0 (two cycles)
PAYPHONE RECOGNITION TONE III	900	0.075 – 0.15 – 0.075 – 2.7 (two cycles)
PARAGUAY		
RINGING TONE	425	1.0 – 4.0
BUSY TONE	425	1.0 – 1.0
WARNING TONE – OPERATOR INTERVENING	425	0.15 – 0.25 – 0.15 – 1.45
NUMBER UNOBTAINABLE TONE	425	2.0 – 0.5
WAITING TONE	950/950/1400	0.65 – 0.325 – 0.125 – 1.3 – 2.6
POSITIVE INDICATION TONE	950/1400/1800	3×0.333 – 1.0
PHILIPPINES		
DIAL TONE I	600×120//425	CONTINUOUS
DIAL TONE II	400	0.2 – 0.2
SPECIAL DIAL TONE	400+425	CONTINUOUS
RINGING TONE I	450	1.0 – 10.0
RINGING TONE II	425+480	1.0 – 4.0
BUSY TONE I	600×120//425	0.5 – 0.5
BUSY TONE II	450	0.4 – 0.2
CONGESTION TONE	600×120//480+620	0.25 – 0.25
NUMBER UNOBTAINABLE TONE	600×120	0.25 – 0.25
POLAND		
DIAL TONE	425	CONTINUOUS
SECOND DIAL TONE	425+350	CONTINUOUS
RINGING TONE	425	1.0 – 4.0
BUSY TONE	425	0.5 – 0.5
CONGESTION TONE	425	0.5 – 0.5
SPECIAL INFORMATION TONE	950/1400/1800	3×0.33 – 1.0
WAITING TONE	425	0.15 – 0.15 – 0.15 – 4.0
ROUTE TONE	425	0.05 – 0.05
PORTUGAL ⁷⁾		
DIAL TONE	400//425	CONTINUOUS
SPECIAL DIAL TONE	425	1.0 – 0.2
RINGING TONE	400//425	1.0 – 5.0
BUSY TONE	400//425	0.5 – 0.5
CONGESTION TONE	425	0.2 – 0.2
NUMBER UNOBTAINABLE TONE	400//425 ²⁷⁾	0.2 – 0.2
WAITING TONE	425	0.2 – 0.2 – 0.2 – 5.0
PAYPHONE RECOGNITION TONE	1477/941	0.2 – 0.2 – 0.2 – 2.0
PUERTO RICO		
PAYPHONE RECOGNITION TONE	1100+1750/750+1450	0.2 – 0.2 – 0.2 – 2.0

TONE	FREQUENCY (Hz)	CADENCE (Seconds)
QATAR		
DIAL TONE	350+440	CONTINUOUS
RINGING TONE I	400+450	0.4 – 0.2 – 0.4 – 2.2
RINGING TONE II	400+450	0.4 – 0.2 – 0.4 – 2.0
BUSY TONE I	400//450	0.8 – 0.8
BUSY TONE II	400	0.375 – 0.375
CONGESTION TONE	400	0.4 – 0.35 – 0.225 – 0.525
NUMBER UNOBTAINABLE TONE	400	CONTINUOUS
REUNION (French Dep.)		
DIAL TONE	440//330+440	CONTINUOUS
RINGING TONE	440	1.5 – 3.5
BUSY TONE	440	0.5 – 0.5
SPECIAL INFORMATION TONE	950/1400/1800	(3×0.3 – 2×0.03) – 1.0
ROUTE TONE ²²⁾	440	0.05 – 0.05
ROMANIA		
DIAL TONE	400//450	CONTINUOUS
RINGING TONE	400×16//450×25	2.0 – 4.0
BUSY TONE	133//450	0.15 – 0.20
NUMBER UNOBTAINABLE TONE	400//450	6×(0.033 – 0.03) – 0.1 – 0.03
RUSSIA		
RINGING TONE	425	0.8 – 3.2
BUSY TONE	425	0.4 – 0.4
WAITING TONE	950/1400/1800	3×0.333 – 1.0
RWANDA		
DIAL TONE	440	CONTINUOUS
SECOND DIAL TONE	340 ³⁾	CONTINUOUS
RINGING TONE	440	1.7 – 3.3
BUSY TONE	440	0.5 – 0.5
SPECIAL INFORMATION TONE	950/1400/1800	3×0.333 – 1.0
ROUTE TONE	440	0.05 – 0.05
S. HELENA		
DIAL TONE	350+400	CONTINUOUS
RINGING TONE	400+450	0.4 – 0.2
BUSY TONE	400	0.375 – 0.375
CONGESTION TONE	400	0.4 – 0.35
NUMBER UNOBTAINABLE TONE	400	CONTINUOUS
PAY TONE	400	0.125 – 0.125
S.-KITTS-AND-NEVIS		
DIAL TONE	350+440	CONTINUOUS
RECALL DIAL TONE	350+440	3×(0.1 – 0.1) – CONTINUOUS
RINGING TONE	440+480	2.0 – 4.0
BUSY TONE	480+620	0.5 – 0.5
CONGESTION TONE	480+620	0.25 – 0.25
SPECIAL INFORMATION TONE	950/1400/1800	3×0.33 – 1.0
WARNING TONE – OPERATOR INTERVENING	450	0.2 – 0.2 – 0.65 – 0.2
NUMBER UNOBTAINABLE TONE	480+620	0.25 – 0.25
WAITING TONE	440	1×(0.5 – 10.0 – 0.5)
PAYPHONE RECOGNITION TONE	1600/1143	0.2 – 0.2 – 0.2 – 2.0
S. LUCIA		
DIAL TONE	425	CONTINUOUS
SECOND DIAL TONE	425	CONTINUOUS
RINGING TONE	425	0.375 – 0.25 – 0.375 – 2.0
BUSY TONE	425	0.5 – 0.5

TONE	FREQUENCY (Hz)	CADENCE (Seconds)
S. LUCIA (<i>continuation</i>)		
CONGESTION TONE	425	0.25 – 0.25
SPECIAL INFORMATION TONE	425+330	CONTINUOUS
WARNING TONE – OPERATOR INTERVENING	425	0.1 – 4.9
NUMBER UNOBTAINABLE TONE		recorded announcement
WAITING TONE	425	0.2 – 0.2
ROUTE TONE	425	0.05 – 0.05
S. PIERRE AND MIQUELON		
DIAL TONE	440//330+440	CONTINUOUS
RINGING TONE	440	1.5 – 3.5
BUSY TONE	440	0.5 – 0.5
SPECIAL INFORMATION TONE	950/1400/1800	(3×0.3 – 2×0.03) – 1.0
ROUTE TONE ²²⁾	440	0.05 – 0.05
S. VINCENT AND THE GRENADINES		
DIAL TONE	350+450	CONTINUOUS
RINGING TONE	400+450	0.2 – 0.4
BUSY TONE	400	0.375 – 0.375
CONGESTION TONE	400	0.4 – 0.35 – 0.255 – 0.525
SAN MARINO		
DIAL TONE	425	0.6 – 1.0 – 0.2 – 0.2
RINGING TONE	425	1.0 – 4.0
BUSY TONE	425	0.2 – 0.2
SAO TOME AND PRINCIPE		
DIAL TONE	425	CONTINUOUS
RINGING TONE	425	1.0 – 5.0
BUSY TONE	425	0.5 – 0.5
NUMBER UNOBTAINABLE TONE	425	0.2 – 0.2
PAY TONE	12000	CONTINUOUS
SAUDI ARABIA		
DIAL TONE	425	CONTINUOUS
RECALL DIAL TONE	425	CONTINUOUS
RINGING TONE	425	1.2 – 4.6
BUSY TONE	425	0.5 – 0.5
INTRUSION TONE	425 ⁶⁾	0.5 – 0.2 – 0.2 – 0.2
WAITING TONE	425	0.2 – 0.6 – 0.2 – 4.0
PAYPHONE RECOGNITION TONE	1600/1200	0.2 – 0.2 – 0.2 – 2.0
REFUSAL TONE	425	0.6 – 0.6
ACCEPTANCE TONE	425	CONTINUOUS
SENEGAL		
DIAL TONE	440	CONTINUOUS
SECOND DIAL TONE	440+330	CONTINUOUS
RINGING TONE	400	1.7 – 3.3
BUSY TONE	440	0.5 – 0.5
ROUTE TONE	440	0.05 – 0.05
SEYCHELLES		
DIAL TONE	350+440	CONTINUOUS
RINGING TONE	425	0.4 – 0.2 – 0.4 – 2.0
BUSY TONE	425	0.375 – 0.375
CONGESTION TONE	425	0.4 – 0.35 – 0.225 – 0.525
NUMBER UNOBTAINABLE TONE	425	CONTINUOUS

TONE	FREQUENCY (Hz)	CADENCE (Seconds)
SIERRA LEONE		
DIAL TONE	425//450 ³³⁾	CONTINUOUS
RINGING TONE	425//450 ³³⁾	1.0 – 4.0
BUSY TONE	425//450 ³³⁾	0.5 – 0.5
CONGESTION TONE	425	0.2 – 0.2
NUMBER UNOBTAINABLE TONE	950//450/150 ³³⁾	0.33 – 0.03
WAITING TONE	425	1.0 (one burst)
SINGAPORE		
DIAL TONE	425	CONTINUOUS
RINGING TONE	425×24	0.4 – 0.2 – 0.4 – 2.0
BUSY TONE	425	0.75 – 0.75
CONGESTION TONE	425	0.25 – 0.25
WARNING TONE – OPERATOR INTERVENING	425	0.125 – 0.125
NUMBER UNOBTAINABLE TONE	425	2.5 – 0.5
WAITING TONE	425	0.3 – 0.2 – 0.3 – 3.2
INTERCEPT TONE	425	0.25 – 2.0
PAYPHONE RECOGNITION TONE	1206/832	0.2 – 0.2 – 0.2 – 2.0
SLOVAKIA		
DIAL TONE I	425	0.33 – 0.33 – 0.66 – 0.66
DIAL TONE II (centrex)	425	CONTINUOUS
SPECIAL DIAL TONE	425	3×(0.165 – 0.165) – 0.660 – 0.660
RINGING TONE	425	1.0 – 4.0
BUSY TONE	425	0.33 – 0.33
CONGESTION TONE	425	0.165 – 0.165
SPECIAL INFORMATION TONE	950/1400/1800	(3×0.33 – 2×0.03) – 1.0
WAITING TONE	425	0.33 – 9.0
CALLER WAITING TONE	425	1.0 – 0.17 – 0.33 – 3.5
CONNECTION TONE	1400	0.05 – 0.05
OFFERING TONE ⁶⁾	425	0.33 – 0.33 – 0.33 – 1.5
CONFERENCE TONE	425	0.66
SLOVENIA		
DIAL TONE	425	0.7 – 0.8 – 0.2 – 0.3
RINGING TONE	425	1.0 – 4.0
BUSY TONE	425	0.5 – 0.5
CONGESTION TONE	425	0.2 – 0.2
SPECIAL INFORMATION TONE	950/1400/1600	3×0.333 – 1.0
SOLOMON		
DIAL TONE	400	CONTINUOUS
RINGING TONE	400+450	0.4 – 0.2
BUSY TONE	400	0.5 – 0.5
CONGESTION TONE	400	0.1 – 0.1
NUMBER UNOBTAINABLE TONE	400	0.075 – 0.1
WAITING TONE	400+450/400	0.5 – 0.5
PAY TONE	852	0.2 – 2.0
SOUTH AFRICA		
DIAL TONE	400×33	CONTINUOUS
SPECIAL DIAL TONE	400×33 1/3	4×(0.25 – 0.25) – CONTINUOUS
RINGING TONE	400×33	0.4 – 0.2 – 0.4 – 2.0
BUSY TONE	400	0.5 – 0.5
CONGESTION TONE	400	0.25 – 0.25
SPECIAL INFORMATION TONE	950/1400/1800	3×0.333 – 1.0
WARNING TONE – OPERATOR INTERVENING	400	0.15 – 0.25 – 0.15 – 1.45
NUMBER UNOBTAINABLE TONE	400	2.5 – 0.5
WAITING TONE	400×33 1/3	3×(0.25 – 0.25) – 0.25 – 7.25

TONE	FREQUENCY (Hz)	CADENCE (Seconds)
SOUTH AFRICA (<i>continuation</i>)		
PAY TONE	900	0.2 – 1.8
PAYPHONE RECOGNITION TONE	770/1209	0.125 – 1.5
POSITIVE INDICATION TONE	700/1100	0.25 – 0.25 – 0.25 – 0.25
COMFORT TONE	950/950/1400	0.65 – 0.325 – 0.325 – 1.3 – 2.6
NOTIFY TONE	900	3×0.2 – 2×0.2
SPAIN		
DIAL TONE	425	CONTINUOUS
DIAL TONE ³⁾	600	CONTINUOUS
SPECIAL DIAL TONE	425	1.0 – 0.1
RINGING TONE	425	1.5 – 3.0
BUSY TONE	425	0.2 – 0.2
CONGESTION TONE	425	2×(0.2 – 0.2) – 0.2 – 0.6
SPECIAL INFORMATION TONE I	950/1400/1800	3×0.333 – 1.0
SPECIAL INFORMATION TONE II	950/1400/1800	(3×0.33 – 2×0.03) – 1.0
WARNING TONE – OPERATOR INTERVENING	1400	0.4 – 5.0
NUMBER UNOBTAINABLE TONE	425	0.2 – 0.2 – 0.2 – 0.6
WAITING TONE I	425	0.2 – 0.6
WAITING TONE II	425	0.175 – 0.175 – 0.175 – 3.5
PAYPHONE RECOGNITION TONE I	1600	0.05 – 1.28
PAYPHONE RECOGNITION TONE II	1600	0.05 – 0.05 – 0.05 – 1.55
PAYPHONE RECOGNITION TONE III	1600	0.05 – 0.05 – 0.05 – 0.05 – 0.05 – 1.5
SRI LANKA		
DIAL TONE	425	CONTINUOUS
SECOND DIAL TONE	425	0.65 – 0.03
RINGING TONE	425	0.4 – 0.2
BUSY TONE	425	0.75 – 0.75
CONGESTION TONE	425	0.25 – 0.25
NUMBER UNOBTAINABLE TONE	400	CONTINUOUS
WAITING TONE	425	0.2 – 0.2 – 0.2 – 4.5
ROUTE TONE	425	0.05 – 0.05
SURINAME		
DIAL TONE	425	CONTINUOUS
RINGING TONE	425	15.0 – 0.5
BUSY TONE	425	0.5 – 0.5
CONGESTION TONE	425	0.25 – 0.25
SPECIAL INFORMATION TONE	950/1400/1800	3×0.33 – 1.0
SWAZILAND		
DIAL TONE	50	CONTINUOUS
RINGING TONE	400	0.4 – 0.2 – 0.4 – 4.0
BUSY TONE I	400	0.5 – 0.5
BUSY TONE II	400	0.4 – 0.4
NUMBER UNOBTAINABLE TONE	400	4.8 – 0.2
PAYPHONE RECOGNITION TONE I	1430/943	2.0 – 2.0
PAYPHONE RECOGNITION TONE II	1100+1750/750+1450	0.2 – 0.2 – 0.2 – 2.0
PAY TONE	900	0.25 – 0.25
SWEDEN		
DIAL TONE	425	CONTINUOUS
SECOND DIAL TONE	425	CONTINUOUS
SPECIAL DIAL TONE	425	0.32 – 0.01
RINGING TONE I	425	1.0 – 5.0
RINGING TONE II ²⁷⁾	400	1.0 – 9.0
BUSY TONE	425	0.25 – 0.25

TONE	FREQUENCY (Hz)	CADENCE (Seconds)
SWEDEN (<i>continuation</i>)		
CONGESTION TONE	425	0.25 – 0.75
SPECIAL INFORMATION TONE I	950/1400/1800	3×0.333 – 1.0 + announcement
SPECIAL INFORMATION TONE II ²⁷⁾	400	3×(0.05 – 0.2) – 0.6
WARNING TONE – OPERATOR INTERVENING	1400	0.1 – 1.5
WARNING TONE I	1400 ¹⁵⁾	0.35 – 15.0
WARNING TONE II	425 ²¹⁾	2.0 – 5.0 – CONTINUOUS
NUMBER UNOBTAINABLE TONE	950/1400/1800	3×0.333 – 1.0 + announcement
WAITING TONE	425	0.2 – 0.5 – 0.2 (only once)
PAYPHONE RECOGNITION TONE	1633/1336	0.2 – 0.2 – 0.2 – 4.0 (seven cycles)
PAY TONE ²⁾	941	0.2 – 0.2 – 0.2 – 3.6 (two cycles)
SWITZERLAND		
DIAL TONE	425	CONTINUOUS
DIAL TONE (PABX)	500	CONTINUOUS
RINGING TONE	425//500	1.0 – 4.0
BUSY TONE I	425	0.5 – 0.5
BUSY TONE II	425	0.25 – 0.25
BUSY TONE (PABX)	500	0.5 – 0.5
CONGESTION TONE	425	0.2 – 0.2
SPECIAL INFORMATION TONE	950/1400/1800	3×0.333 – 1.0
RECORD TONE	1400	0.45 – 15.0
PAYPHONE RECOGNITION TONE I	800/1200	0.2 – 0.2 – 0.2 – 2.0
PAYPHONE RECOGNITION TONE II	1100+1750/750+1450	0.2 – 0.2 – 0.2 – 2.0
SYRIA		
DIAL TONE	450	CONTINUOUS
RECALL DIAL TONE	450	CONTINUOUS
RINGING TONE I	425//475	1.0 – 4.0
RINGING TONE II	450//50	1.0 – 3.0
BUSY TONE I	450	0.5 – 0.5
BUSY TONE II	450	0.44 – 0.49
CONGESTION TONE	450	2×(0.2 – 0.23) – 0.2 – 0.92
SPECIAL INFORMATION TONE	950/1400/1800	(3×0.33 – 2×0.03) – 1.0
NUMBER UNOBTAINABLE TONE	450	0.9 – 0.2 – 2×(0.25 – 0.2)
TAJIKISTAN		
RINGING TONE	425	0.8 – 3.2
BUSY TONE	425	0.4 – 0.4
WAITING TONE	950/1400/1800	3×0.333 – 1.0
TANZANIA		
DIAL TONE	50	CONTINUOUS
RINGING TONE I	400	CONTINUOUS
RINGING TONE II	400	1.0 – 2.0
BUSY TONE I	400	0.75 – 0.75
BUSY TONE II	400	0.375 – 0.375
NUMBER UNOBTAINABLE TONE	400	2.5 – 0.5
THAILAND		
DIAL TONE	400×50//400	CONTINUOUS
RINGING TONE	400	1.0 – 4.0
BUSY TONE I	400	0.5 – 0.5
BUSY TONE II	450	0.333 – 0.333
WARNING TONE – OPERATOR INTERVENING	800	1.0
NUMBER UNOBTAINABLE TONE	400	6×(0.1 – 0.9) – 0.3 – 0.7
OFFERING TONE ⁶⁾	400	2×(0.17 – 0.83) – 0.51 – 0.49

TONE	FREQUENCY (Hz)	CADENCE (Seconds)
TRINIDAD AND TOBAGO		
DIAL TONE	350+440	CONTINUOUS
RINGING TONE	440+480	2.0 – 4.0
BUSY TONE	480+620	0.5 – 0.5
WAITING TONE	440	0.3 – 10.0
RE-ORDER TONE I	480+620	0.3 – 0.2
RE-ORDER TONE II ⁶⁾	480+620	0.2 – 0.3
TUNISIA		
DIAL TONE I	425	CONTINUOUS
DIAL TONE II	425	0.4 – 0.04
RINGING TONE	425	1.2 – 4.6
BUSY TONE I	425	0.25 – 0.25
BUSY TONE II (special)	950	CONTINUOUS
CONGESTION TONE	425	0.167 – 0.167
TURKEY		
DIAL TONE	450	CONTINUOUS
SECOND DIAL TONE	350+450	CONTINUOUS
SPECIAL DIAL TONE	450	1.0 – 0.25
RINGING TONE	450	2.0 – 4.0
BUSY TONE	450	0.5 – 0.5
CONGESTION TONE	450	3×(0.2 – 0.2) – 0.6 – 0.2
SPECIAL INFORMATION TONE	950/1400/1800	3×0.3 – 1.0
WARNING TONE – OPERATOR INTERVENING	450	0.2 – 0.2 – 0.6 – 0.2
NUMBER UNOBTAINABLE TONE	450	0.2 – 0.2
WAITING TONE	350+450/450	0.5 – 0.5 – 2.5
PAYPHONE RECOGNITION TONE	1000/1200//1000/1330	0.25 – 0.25 – 0.25 – 2.0
CONFIRMATION TONE	450	0.04 – 0.04
TURKMENISTAN		
DIAL TONE	425	CONTINUOUS
SECOND DIAL TONE	425	CONTINUOUS
RINGING TONE	25	0.4 – 4.0
BUSY TONE	425	0.4 – 0.4
CONGESTION TONE	425	0.4 – 0.4
NUMBER UNOBTAINABLE TONE	425	0.8 – 4.0
ROUTE TONE	25	0.4 – 0.4
TURKS AND CAICOS ISLANDS		
DIAL TONE	350+440	CONTINUOUS
RECALL DIAL TONE	350+440	3×(0.1 – 0.1) – CONTINUOUS
RINGING TONE	440+480	2.0 – 4.0
BUSY TONE	480+620	0.5 – 0.5
CONGESTION TONE	480+620	0.25 – 0.25
SPECIAL INFORMATION TONE	950/1400/1800	3×0.33 – 1.0
WARNING TONE – OPERATOR INTERVENING	450	0.2 – 0.2 – 0.65 – 0.2
NUMBER UNOBTAINABLE TONE	480+620	0.25 – 0.25
WAITING TONE	440	1×(0.5 – 10.0 – 0.5)
PAYPHONE RECOGNITION TONE	1600/1143	0.2 – 0.2 – 0.2 – 2.0
UGANDA		
DIAL TONE	33//50	CONTINUOUS
RINGING TONE	133+17//400+17//400+450	0.25 – 0.5 – 0.25 – 2.0
BUSY TONE I	400	0.75 – 0.75
BUSY TONE II	400	0.375 – 0.375
NUMBER UNOBTAINABLE TONE I	400	CONTINUOUS
NUMBER UNOBTAINABLE TONE II	400	2.5 – 0.5

TONE	FREQUENCY (Hz)	CADENCE (Seconds)
UNITED ARAB EMIRATES		
DIAL TONE	350+440	CONTINUOUS
RINGING TONE	400+450//425	0.4 – 0.2 – 0.4 – 2.0
BUSY TONE	400//425	0.375 – 0.375
CONGESTION TONE	400//425	0.4 – 0.35 – 0.225 – 0.525
NUMBER UNOBTAINABLE TONE	400//425	CONTINUOUS
UNITED KINGDOM		
DIAL TONE	50//350+440	CONTINUOUS
RINGING TONE	400+450//400×25//400×16 2/3	0.4 – 0.2 – 0.4 – 2.0
BUSY TONE	400	0.375 – 0.375
CONGESTION TONE	400	0.4 – 0.35 – 0.225 – 0.525
NUMBER UNOBTAINABLE TONE	400	CONTINUOUS
PAYPHONE RECOGNITION TONE	1200/800	0.2 – 0.2 – 0.2 – 2.0
PAY TONE	400	0.125 – 0.125
UNITED STATES		
DIAL TONE	600×120 ²³⁾ //350+440	CONTINUOUS
RECALL DIAL TONE	350+440	3×(0.1 – 0.1) – CONTINUOUS
RINGING TONE	420×40 ²³⁾ //440+480	2.0 – 4.0
RINGING TONE (PABX)	440+480	1.0 – 3.0
BUSY TONE	600×120 ²³⁾ //480+620	0.5 – 0.5
CONGESTION TONE	600×120 ²³⁾ //480+620	0.25 – 0.25
SPECIAL INFORMATION TONE	950/1400/1800	3×0.33
WARNING TONE – OPERATOR INTERVENING	440 ²⁴⁾	2.0 – 10.0 – 0.5 – 10.0
WARNING TONE – OPERATOR INTERVENING (PABX)	440 ^{24) 25)}	1.5 – 8.0 – 0.5 – 8.0
WAITING TONE (PABX)	440 ²⁶⁾	0.3 – 10.0
RECORD TONE	1400	0.5 – 15.0
EXECUTIVE OVERRIDE TONE (PABX)	440	3.0
INTERCEPT TONE (PABX)	440/620	0.25 – 0.25
CONFIRMATION TONE (PABX)	350+440	3×0.1 – 2×0.1
URUGUAY		
DIAL TONE I	425	CONTINUOUS
DIAL TONE II	450	0.7 – 0.8 – 0.2 – 0.3
RINGING TONE	425	1.0 – 4.0
BUSY TONE	425	0.5 – 0.5
CONGESTION TONE	425	0.25 – 0.25
SPECIAL INFORMATION TONE	950/1400/1800	3×0.333 – 1.0
WARNING TONE – OPERATOR INTERVENING	425	0.15 – 0.25 – 0.15 – 1.45
WAITING TONE	425	0.2 – 0.2 – 0.2 – 4.4
POSITIVE INDICATION TONE	425	2×(0.1 – 0.2) – 0.1 – 1.3
NEGATIVE INDICATION TONE	425	0.5 – 0.5
VANUATU		
DIAL TONE	425	CONTINUOUS
SPECIAL DIAL TONE	425	0.4 – 0.04
RINGING TONE I	425	1.0 – 4.0
RINGING TONE II	400×450//133×16 2/3	0.4 – 0.2 – 0.4 – 2.0
BUSY TONE I	400	0.75 – 0.75
BUSY TONE II	425	0.5 – 0.5
BUSY TONE III	400	0.375 – 0.375
SPECIAL INFORMATION TONE	950//1400//1800	0.33 – 0.03
NUMBER UNOBTAINABLE TONE	400	CONTINUOUS
WAITING TONE	425	0.3 – 10.0
ROUTE TONE	425	0.05 – 0.05
ACCEPTANCE TONE	950	CONTINUOUS

TONE	FREQUENCY (Hz)	CADENCE (Seconds)
WALLIS AND FUTUNA		
DIAL TONE	440//330+440	CONTINUOUS
RINGING TONE	440	1.5 – 3.5
BUSY TONE	440	0.5 – 0.5
SPECIAL INFORMATION TONE	950/1400/1800	(3×0.3 – 2×0.03) – 1.0
ROUTE TONE ²²⁾	440	0.05 – 0.05
WESTERN SAMOA		
DIAL TONE	425	CONTINUOUS
RINGING TONE	425×25	0.375 – 0.25 – 0.375 – 2.0
CONGESTION TONE		recorded announcement
NUMBER UNOBTAINABLE TONE		recorded announcement
YUGOSLAVIA		
DIAL TONE	425	0.7 – 0.8 – 0.2 – 0.3
RINGING TONE I	450×25	1.0 – 9.0
RINGING TONE II	425	1.0 – 4.0
BUSY TONE I	425	0.5 – 0.5
BUSY TONE II	425	0.2 – 0.4
SPECIAL INFORMATION TONE	950/1400/1800	3×0.333 – 1.0
ZAMBIA		
DIAL TONE	425//50	CONTINUOUS
RINGING TONE	425	1.0 – 4.0
BUSY TONE	425	0.5 – 0.5
CONGESTION TONE	425	0.25 – 0.25
SPECIAL INFORMATION TONE	950/1400/1800	3×0.333 – 1.0
INTRUSION TONE	425	0.1 – 4.9
NUMBER UNOBTAINABLE TONE	950/1400/1800	3×0.33 – 1.0
PAYPHONE RECOGNITION TONE	1100+1750/750+1450	0.2 – 0.2 – 0.2 – 2.0
ZIMBABWE		
DIAL TONE	400	CONTINUOUS
SECOND DIAL TONE	400×450//400×33	CONTINUOUS
RINGING TONE	400×450//400×33	0.4 – 0.2 – 0.4 – 2.0
BUSY TONE	400	0.375 – 0.375
NUMBER UNOBTAINABLE TONE	400	2.5 – 0.5
WAITING TONE	523/659	1.5 – 1.5
PAYPHONE RECOGNITION TONE	1100+1750/750+1450	0.2 – 0.2 – 0.2 – 2.0

FOOTNOTES TO TONE TABLES

- 1) With harmonics applied every 30 ms.
- 2) Announces that the call is to terminate in a specified time unless the user inserts another coin in the coin box.
- 3) International.
- 4) Disconnect tone/Overflow tone.
- 5) Switching complete tone.
- 6) Trunk.
- 7) Analogue exchanges: 400 Hz; digital exchanges: 425 Hz.
- 8) The first silent part may be minimum zero.
- 9) Standardized version.
- 10) For one or two seconds only.
- 11) This tone burst is given for 1 to 2 seconds between 15 and 20 seconds before the paid time expires.
- 12) In older equipments.
- 13) Registration confirmation for subscriber dialling alarm call and do not disturb services.
- 14) This tone is used within the supplementary service “call waiting” the duration is 30 seconds.
- 15) Warning tone - three party conference.
- 16) For subscribers with don't disturb or absent subscriber service activated.
- 17) This tone is also used in private branch exchanges (PABX).
- 18) Special dial tone is used when call transfer is active.
- 19) Divergence till 530 Hz.
- 20) Reduced by 10 dB every other time.
- 21) Warning tone - at time limit barring.
- 22) This tone is generally not retransmitted outside the French network. It can be retransmitted, however, in the case of calls arriving in Paris, which have to go through certain long-distance connections in the national network and in the case of certain neighbouring international relations. This tone is progressively withdrawn.
- 23) Not North American precise tone plan; however it is possible that these tones may be received from certain electromechanical switching systems.
- 24) Busy verification.
- 25) One application of 1.5 to 2 seconds before PABX user intervenes; followed by repeated applications of 0.5 to 0.8 seconds, at intervals of 8 to 20 seconds.
- 26) Modern PABXs may have one of the following arrangements using 400 Hz:
 - a) single burst tone: **0.3** seconds,
 - b) two burst tone: **0.1 - 0.1 - 0.1** seconds,
 - c) three burst tone: **0.1 - 0.1 - 0.1 - 0.1 - 0.1** seconds.
- 27) Analogue exchanges.
- 28) Radio cellular lines only, prior to ringing tone or “not available” verbal announcement.
- 29) To the caller on answered waiting calls.
- 30) A prerecorded message is sent in electronic exchanges and a period tone in analogue exchanges.

- 31) Frequency of 450 Hz used only in analogue exchanges.
 - 32) Reduce by 8 dB than dial tone.
 - 33) Analogue exchanges: Greenland = 425 Hz; Sierra Leone = 450 Hz.
-

EXPLANATION OF SYMBOLS

Frequency in Hz:	$f_1 \times f_2$	f_1 is modulated by f_2
	$f_1 + f_2$	the juxtaposition of two frequencies f_1 and f_2 without modulation
	f_1 / f_2	f_1 is followed by f_2
	$f_1 // f_2$	in some exchanges frequency f_1 is used and in others frequency f_2 is used.
Cadence in seconds:	ON – OFF	

