



INTERNATIONAL TELECOMMUNICATION UNION

**TSB
TELECOMMUNICATION
STANDARDIZATION BUREAU
OF ITU**

**VARIOUS TONES USED IN NATIONAL
NETWORKS (ACCORDING TO ITU-T
RECOMMENDATION E.180(03/1998))**

(POSITION ON 1 MAY 2010)

Various tones used in national networks

Note by TSB

1. The List of various tones used in national networks has now been updated by amendments published in ITU Operational Bulletin..
2. Administrations are reminded of the advantages of standardizing audible tones as far as possible so that subscribers and operators may quickly recognize any tone transmitted of whatever origin.
3. In order to have current information and to keep the List up-to-date, Administrations are strongly requested to submit a concise technical description of any new or changed network tones to the ITU/TSB whenever such tones are introduced, by using the attached Notification form.
4. For your information, this list will be updated by numbered series of amendments published in the ITU Operational Bulletin. Furthermore, the information contained in this Annex is also available on the ITU web page www.itu.int/itu-t/bulletin/annex.html .
5. Please address any comments or any modifications concerning this List to the Director of the TSB:

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6. The designations employed and the presentation of material in this List do not imply the expression of any opinion whatsoever on the part of the ITU concerning the legal status of any country or geographical area, or of its authorities.

Various tones used in national networks

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Albania (Republic of)		
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.2 on 0.2 off
Dial tone -	425	continuous
Ringing tone -	425	1.0 on 4.0 off
Call waiting tone -	425	0.2 on 0.2 off 0.2 on 1.4 off
Algeria (People's Democratic Republic of)		
Busy tone -	425	0.5 on 0.5 off
Ringing tone -	425	1.5 on 3.5 off
Andorra (Principality of)		
Busy tone -	425	0.2 on 0.2 off
Congestion tone -	425	2x(0.2 on 0.2 off) 0.2 on 0.2 off
Dial tone -	425	continuous
Second dial tone -	425	continuous
Pay tone -	1600	0.05 on 0.05 off 0.05 on 0.05 off 1.5 off
Ringing tone -	425	1.5 on 3.0 off
Special information tone -	950/1400/1800	3x0.333 on 1.0 off
Call waiting tone -	425	0.175 on 0.175 off 0.175 on 3.5 off
Angola (Republic of)		
Busy tone -	400	0.5 on 0.5 off
Congestion tone -	400	0.5 on 0.5 off
Dial tone -	400	continuous
Number unobtainable tone -	400	0.2 on 0.2 off
Ringing tone -	25	1.0 on 5.0 off
Waiting tone -	400	1.0 on 5.0 off
Anguilla		
Busy tone -	480+620	0.5 on 0.5 off
Congestion tone -	480+620	0.25 on 0.25 off
Dial tone -	350+440	continuous
Recall dial tone -	350+440	3x(0.1 on 0.1 off) + continuous
Number unobtainable tone -	480+620	0.25 on 0.25 off
Payphone recognition tone -	1600/1143	0.2 on 0.2 off 0.2 on 2.0 off
Ringing tone -	440+480	2.0 on 4.0 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Warning tone - operator intervening	450	0.2 on 0.2 off 0.65 on 0.2 off
Waiting tone -	440	1x(0.5 on 10.0 off 0.5 on)
Antigua and Barbuda		
Busy tone -	480+620	0.5 on 0.5 off
Congestion tone -	480+620	0.25 on 0.25 off
Dial tone -	350+440	continuous
Pay tone -	622	0.136 on 0.136 off
Ringing tone -	440+480	2.0 on 4.0 off
Special information tone -		announcement
Call waiting tone -	480	1x(0.6 on 10.0 off)
Argentine Republic		
Busy tone -	425	0.3 on 0.2 off
Congestion tone -	425	0.3 on 0.4 off
Dial tone -	425	continuous
End of three party service tone -	950/1400/1800	1x(3x0.33 on)
Ringing tone -	425	1.0 on 4.0 off
Service activated tone -	425	1.0 on 0.25 off
Warning tone - operator intervening	1400	5x0.1 on 1.9 off
Waiting tone -	425	0.4 on 0.2 off 0.4 on 4.0 off
Call waiting tone -	425	0.3 on 10.0 off
Aruba		
Busy tone -	425	0.5 on 0.5 off
Confirmation tone -	425	continuous
Congestion tone -	425	0.25 on 0.25 off
Dial tone -	425	continuous
Refusal tone -	425	0.06 on 0.06 off

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Ringing tone -	425	1.0 on 4.0 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Call waiting tone -	425	0.2 on 0.2 off 0.2 on 4.4 off
Ascension		
Busy tone -	400	0.384 on 0.384 off
Congestion tone -	400	continuous
Dial tone -	350+450	continuous
Number unobtainable tone -	400	continuous
Ringing tone -	400+450	0.384 on 0.192 off 0.384 on 2.016 off
Call waiting tone -	1400	1x(0.384 on)
Australia		
Busy tone -	425//400	0.375 on 0.375 off
Congestion tone -	425//400	0.375 on 0.375 off
Conference tone -	425//525//1400	1.0 on 15.0 off 0.36 on 15.0 off
Dial tone -	425x25//400+425+450//400+425//425	continuous
Facilities tone -	425	continuous
Intrusion tone -	425//525	continuous
Number unobtainable tone -	425//400	2.5 on 0.5 off
Ringing tone -	400x425//400+425+450//400+450	0.4 on 0.2 off 0.4 on 2.0 off
Call waiting tone -	425	0.2 on 0.2 off 0.2 on 4.4 off
Austria		
Busy tone - I	420	0.4 on 0.4 off
Busy tone - II (5)	450	0.3 on 0.3 off
Congestion tone - I	420	0.2 on 0.2 off
Congestion tone - II (5)	450	0.3 on 0.3 off
Dial tone -	420//450	continuous
Recall dial tone -	420	continuous
Special dial tone -	380+420	continuous
Negative indication tone -	380+420	0.4 on 0.4 off
Number unobtainable tone -	950/1400/1800	3x0.33 on 1.0 off
Pay tone -	852	1.5 on
Positive indication tone -	380+420	1.0 on 5.0 off
Payphone recognition tone -	1633/1336	0.2 on 0.2 off 0.2 on 2.0 off
Ringing tone -	420//450	1.0 on 5.0 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Warning tone - operator intervening	420//450	0.15 on 0.15 off 0.15 on 1.95 off
Waiting tone -	420	0.04 on 1.95 off
Bahamas (Commonwealth of the)		
Busy tone -	480//620/120	0.5 on 0.5 off
Congestion tone -	480//620/120	0.25 on 0.2 off
Ringing tone -	480//620	2.0 on 4.0 off
Bahrain (Kingdom of)		
Acceptance tone -	425	0.06 on 0.06 off
Busy tone -	425	0.375 on 0.375 off
Congestion tone -	425	0.40 on 0.35 off 0.225 on 0.525 off
Dial tone -	330x440	continuous
Number unobtainable tone -	425	continuous
Pay tone -	816/1209	0.125 on 1.5 off
Ringing tone -	425	0.4 on 0.2 off 0.4 on 2.0 off
Route tone -	425	0.06 on 0.06 off
Call waiting tone -	425	0.2 on 0.6 off 0.2 on 5.0 off
Bangladesh (People's Republic of)		
Busy tone -	450	0.2 on 0.3 off 0.7 on 0.8 off
Congestion tone -	450	0.25 on 0.25 off
Dial tone -	450	continuous
Special dial tone -	450	0.4 on 0.4 off
Howler tone -	3000	continuous
Pay tone -	800/1900	continuous
Ringing tone -	450	1.0 on 4.0 off
Warning tone - operator intervening	450	0.20 on 0.02 off 0.20 on 1.40 off
Call waiting tone -	450	3.0 on 10.0 off
Barbados		
Busy tone -	480+620	0.5 on 0.5 off
Congestion tone -	480+620	0.25 on 0.25 off
Dial tone -	350+440	continuous
Ringing tone -	440+480	2.0 on 4.0 off

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Special information tone -	950/1400/1800	3x0.33 on
Call waiting tone -	440	2x(0.3 on 10.0 off)
Belarus (Republic of)		
Busy tone -	425	0.4 on 0.4 off
Ringing tone -	425	0.8 on 3.2 off
Belgium		
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.167 on 0.167 off
Dial tone -	425	continuous
Special dial tone -	425	1.0 on 0.25 off
Holding tone -	1400	0.4 on 15.0 off
Ringing tone -	425	1.0 on 3.0 off
Special information tone -	900/1400/1800	3x0.33 on 1.0 off
Call waiting tone -	1400	0.175 on 0.175 off 0.175 on 3.50 off
Benin (Republic of)		
Busy tone -	440//425	0.5 on 0.5 off
Congestion tone -		announcement
Dial tone -	440//425	continuous
Special dial tone -	330+440	continuous
Pay tone -		announcement
Ringing tone -	440//425	1.7 on 3.3 off
Route tone -	440//425	0.05 on 0.05 off
Special information tone -		announcement
Call waiting tone -	440	continuous
Bermuda		
Busy tone -	480+620	0.5 on 0.5 off
Congestion tone -	480+620	0.25 on 0.25 off
Dial tone -	350+440	continuous
Ringing tone -	440+480	2.0 on 4.0 off
Special information tone -	913/1428/1776	0.27 on 0.38 on 0.38 on
Call waiting tone - (6)	440	
Bhutan (Kingdom of)		
Busy tone -	400	0.6 on 0.6 off
Dial tone -	400+25	continuous
Number unobtainable tone -	400	continuous
Offering tone, trunk -	450	0.2 on 0.2 off 0.2 on 0.6 off
Ringing tone -	400+25	0.4 on 0.2 off 0.4 on 2.6 off
Waiting tone -	400	0.5 on 0.25 off
Bosnia and Herzegovina		
Busy tone -	425	0.5 on 0.5 off
Confirmation tone -	425	continuous
Congestion tone -	425	0.2 on 0.2 off
Dial tone -	425	0.2 on 0.3 off 0.7 on 0.8 off
Second dial tone -	425	continuous
Special dial tone -	425	0.4 on 0.04 off
Offering tone, trunk -	425	0.2 on 0.3 off 0.7 on 0.8 off
Pay tone -	425	0.5 on 15.0 off
Payphone recognition tone -	1100+1750	0.2 on 0.2 off 0.2 on 2.0 off
Ringing tone -	425	1.0 on 4.0 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Call waiting tone -	425	0.3 on 10.0 off
Botswana (Republic of)		
Acceptance tone -	425	0.06 on 0.06 off
Busy tone -	425	0.38 on 0.38 off
Congestion tone -	425	0.25 on 0.25 off
Dial tone -	350+450	continuous
Special dial tone -	350+450	0.40 on 0.04 off
Holding tone -	425	5.0 on 5.0 off
Intrusion tone -	425	0.16 on 2.0 off
Line lock-out tone -	425	5.0 on 1.0 off
Refusal tone -	425	5.0 on 1.0 off
Ringing tone -	425	0.4 on 0.2 off 0.4 on 2.0 off
Waiting tone -	425	1.0 on 1.0 off
Call waiting tone -	425	0.2 on 0.6 off 0.2 on

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Brazil (Federative Republic of)		
Busy tone -	425	0.25 on 0.25 off
Dial tone -	425	continuous
Dial tone - pabx	425	0.975 on 0.05 off
Executive override tone -	750	0.02 on 1.0 off
Function acknowledge tone -	425	0.1 on 0.1 off 0.1 on 2.0 off
Number unobtainable tone -	425	0.75 on 0.25 off 0.25 on 0.25 off
Pay tone -	300	0.75 on
Ringing tone -	425	1.0 on 4.0 off
Waiting tone -	425	0.05 on 1.0 off
British Virgin Islands		
Busy tone -	480+620	0.5 on 0.5 off
Congestion tone -	480+620	0.25 on 0.25 off
Dial tone -	350+440	continuous
Recall dial tone -	350+440	3x(0.1 on 0.1 off) + continuous
Number unobtainable tone -	480+620	0.25 on 0.25 off
Payphone recognition tone -	1600/1143	0.2 on 0.2 off 0.2 on 2.0 off
Ringing tone -	440+480	2.0 on 4.0 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Warning tone - operator intervening	450	0.2 on 0.2 off 0.65 on 0.2 off
Call waiting tone -	440	1x(0.5 on 10.0 off 0.5 on)
Brunei Darussalam		
Busy tone -	400	0.375 on 0.375 off
Confirmation tone -	400x24	0.1 on 0.1 off 0.3 on 0.3 off
Congestion tone -	400	0.375 on 0.375 off
Dial tone -	400x50	continuous
Special dial tone -	400x24	0.1 on 0.1 off
Holding tone -	400x24	0.5 on 2.5 off
Number unobtainable tone -	400	continuous
Ringing tone -	400+450	0.4 on 0.2 off 0.4 on 0.2 off
Warning tone - end of period	400	0.624 on 4.376 off
Warning tone - operator intervening	400	0.25 on 2.0 off
Warning tone - pip tone	900	0.25 on 0.25 off
Waiting tone -	400	0.3 on 0.25 off
Call waiting tone -	400x24	0.5 on 0.25 off
Bulgaria (Republic of)		
Busy tone - I	425	0.5 on 0.5 off
Busy tone - II	425	0.2 on 0.5 off
Busy tone - III	425	0.25 on 0.25 off
Busy tone - IV	425	0.3 on 0.3 off
Congestion tone - I	425	0.25 on 0.25 off
Congestion tone - II	425	0.22 on 0.22 off
Congestion tone - III	425	0.5 on 0.5 off
Dial tone - I	425	continuous
Dial tone - II	425	0.25 on 0.75 off 0.75 on 1.0 off
Dial tone - III	425	0.25 on 0.3 off 0.7 on 0.8 off
Dial tone - IV	425	0.25 on 0.25 off 0.25 on 1.0 off
Special dial tone -	425	1.5 on 0.1 off
Holding tone - I	950/950/1400	0.65 on 0.32 off 0.32 on 0.32 off 1.30 on 2.60 off
Holding tone - II	425/950/950/1400	1.50 on 5.12 off 1.50 on 5.12 off 1.50 on 5.12 off
Intrusion tone - I	425	0.24 on 0.24 off 0.24 on 1.20 off
Intrusion tone - II	425	2.0 on 0.5 off 2.0 on 0.5 off
Intrusion tone - III	425	0.25 on 0.25 off 0.25 on 1.5 off
Payphone recognition tone -	1100+1750/750+1450	0.2 on 0.2 off 0.2 on 2.0 off
Ringing tone - I	425	1.0 on 4.0 off
Ringing tone - II	425	1.0 on 9.0 off
Ringing tone - III	425	1.5 on 3.5 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Warning tone - I	1400	0.35 on 0.50 off
Warning tone - II	425/1400	0.5 on 0.5 off
Call waiting tone - I	425	0.15 on 0.15 off 0.15 on 4.0 off
Call waiting tone - II	425	2x(0.3 on)
Call waiting tone - III	425	0.2 on 0.6 off
Burkina Faso		
Acceptance tone -	425	1.0 on 4.0 off

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Busy tone -	425//440//620	0.5 on 0.5 off
Confirmation tone -	350	0128 on 0.128 off 0.384 on
Congestion tone -	425//620	0.25 on 0.25 off
Dial tone -	425//440	continuous
Ringling tone - I	425	1.0 on 4.0 off
Ringling tone - II	440	1.7 on 3.3 off
Ringling tone - III	480	2.0 on 4.0 off
Route tone -	425	0.05 on 0.05 off
Special information tone -	900/1380/1860	0.35 on 0.30 on 0.35 on 1.0 off
Burundi (Republic of)		
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.25 on 0.25 off
Dial tone -	425	continuous
Ringling tone -	425	1.7 on 3.3 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Cambodia (Kingdom of)		
Busy tone -	425	0.375 on 0.375 off
Congestion tone -	425	0.375 on 0.375 off
Dial tone -	425	continuous
Number unobtainable tone -	425	0.25 on 0.25 off
Ringling tone -	425	0.4 on 0.2 off 0.4 on 2.0 off
Cameroon (Republic of)		
Busy tone -	440	0.5 on 0.5 off
Congestion tone -	440	0.25 on 0.25 off
Dial tone -	440	continuous
Second dial tone -	330+440	continuous
Pay tone -	12000	continuous
Ringling tone -	440	1.7 on 3.3 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Call waiting tone -	440	0.2 on 0.6 off 0.2 on
Canada		
Busy tone -	480+620	0.5 on 0.5 off
Congestion tone -	480+620	0.25 on 0.25 off
Dial tone -	350+440	continuous
Ringling tone -	440+480	2.0 on 4.0 off
Call waiting tone -	440	2x(0.3 on 10.0 off)
Cayman Islands		
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.25 on 0.25 off
Dial tone -	425	continuous
Number unobtainable tone -	425	0.25 on 0.25 off
Ringling tone -	425	1.0 on 4.0 off
Central African Republic		
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.5 on 0.5 off
Dial tone -	425	continuous
Second dial tone -	425+330	continuous
Number unobtainable tone -	425	0.5 on 0.5 off
Pay tone -	12000	0.15 on 0.15 off
Ringling tone -	425	1.7 on 3.3 off
Route tone -	425	0.05 on 0.05 off
Special information tone -	950/1400/1800	3x0.33 on 2x0.30 off
Chad (Republic of)		
Busy tone -	440	0.5 on 0.5 off
Dial tone -	440	continuous
Second dial tone -	330+400	continuous
Ringling tone -	440	1.7 on 3.3 off
Special information tone -	950/1400/1800	(3x0.33 on 2x0.03 off) 1.0 off
Channel Islands: Guernsey		
Busy tone -	400	0.375 on 0.375 off
Congestion tone -	400	0.40 on 0.35 off 0.25 on 0.52 off
Dial tone -	350+450	continuous
Special dial tone -	350+450	0.75 on 0.75 off
Pay tone -	400	0.125 on 0.125 off
Ringling tone -	400+450	0.4 on 0.2 off

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Call waiting tone -	400	8x(0.1 on 4.9 off)
Channel Islands: Jersey		
Busy tone -	400	0.375 on 0.375 off
Congestion tone -	400	0.4 on 0.35 off 0.225 on 0.525 off
Dial tone -	350+450	continuous
Number unobtainable tone -	400	continuous
Pay tone -	400	0.125 on 0.125 off
Ringling tone -	400+450	0.4 on 0.2 off 0.4 on 2.0 off
Waiting tone -	400	0.1 on 2.5 off 0.1 on
Chile		
Busy tone -	400	0.5 on 0.5 off
Congestion tone -	400	0.2 on 0.2 off
Dial tone -	400	continuous
Second dial tone -	330+440	continuous
Identification tone -	800/1200	0.6 on 2.0 off 0.6 on 2.0 off
Payphone recognition tone -	1100+1750/750+1450	0.2 on 0.2 off 0.2 on 2.0 off
Ringling tone -	400	1.0 on 3.0 off
Special information tone -	950/1400/1800	3x0.333 on 1.0 off
Warning tone - end of period	800	2.0 on
Warning tone - operator intervening	1400	0.5 on 15.0 off
Waiting tone -	900+1300	0.5 on 0.5 off
China (People's Republic of)		
Busy tone -	450	0.35 on 0.35 off
Congestion tone -	450	0.7 on 0.7 off
Dial tone -	450	continuous
Second dial tone -	450	continuous
Intrusion tone -	450	0.2 on 0.2 off 0.2 on 0.6 off
Number unobtainable tone -	450	3x(0.1 on 0.1 off) 0.4 on 0.4 off
Ringling tone -	450	1.0 on 4.0 off
Special information tone - I	450	0.4 on 0.04 off
Special information tone - II	950	0.4 on 10.0 off
Waiting tone -	450	0.4 on 4.0 off
Colombia (Republic of)		
Busy tone -	425	0.25 on 0.25 off
Congestion tone -	425	0.10 on 0.25 off 0.35 on 0.25 off 0.65 on 0.25 off
Dial tone -	425	continuous
Number unobtainable tone -	425	0.65 on 0.25 off 0.20 on 0.60 off
Pay tone -	50/12000/16000	0.15 on
Ringling tone -	425	1.0 on 4.5 off
Special information tone -	950/1400/1800	3x0.333 on 1.0 off
Comoros (Union of the)		
Busy tone -	440	0.5 on 0.5 off
Dial tone -	440	continuous
Second dial tone -	330+440	continuous
Ringling tone -	440	1.71 on 0.05 off
Route tone -	440	0.05 on 0.05 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Cook Islands		
Busy tone -	400	0.5 on 0.5 off
Congestion tone -	400	0.25 on 0.25 off
Dial tone -	400	continuous
Ringling tone -	400+450	0.4 on 0.2 off
Call waiting tone -	400+450	0.5 on
Costa Rica		
Busy tone -	450	0.33 on 0.33 off
Congestion tone -	450	0.33 on 0.33 off
Dial tone -	450	continuous
Ringling tone -	450	1.2 on 4.9 off
Warning tone - operator intervening	425	0.17 on 0.17 off 0.5 on 0.17 off
Call waiting tone -	450	0.15 on 0.15 off 0.15 on 8.0 off
Côte d'Ivoire (Republic of)		
Busy tone -	425	0.5 on 0.5 off
Congestion tone -		announcement

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Dial tone -	425	continuous
Second dial tone -	440+330	continuous
Line lock-out tone -	425	0.4 on 0.04 off
Pay tone -	12000	
Ring tone -	425	1.7 on 3.3 off
Special information tone -		announcement
Call waiting tone - (6)	425	
Croatia (Republic of)		
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.25 on 0.25 off
Dial tone -	425	0.2 on 0.3 off 0.7 on 0.8 off
Payphone recognition tone -	1206/850	4x(0.2 on 0.2 off 0.2 on 0.2 off)
Ring tone -	425	1.0 on 4.0 off
Special information tone -	950/1400/1800	3x0.333 on 1.0 off
Call waiting tone -	425	0.3 on 8.0 off
Cuba		
Acceptance tone -	425	continuous
Busy tone -	600x120//620+480//425//400	0.5 on 0.5 off
Congestion tone -	600x120//425//400	0.25 on 0.25 off
Dial tone - I	600x120//425	continuous
Dial tone - II	425	0.75 on 0.75 off 0.25 on 0.25 off
Negative indication tone -	425	0.5 on 0.5 off
Ring tone - I	425	1.0 on 4.0 off
Ring tone - II	440+480//440+620//480+620	2.0 on 4.0 off
Ring tone - III	420x40	1.0 on 2.0 off
Ring tone - IV	400+450	0.4 on 0.2 off 0.4 on 2.0 off
Special information tone - I	950/1400/1800	(3x0.33 on 2x0.33 off) 1.0 off
Special information tone - II	400	4x(0.075 on 0.10 off) 0.30 off
Warning tone - I, operator intervening	425	0.1 on 4.9 off
Warning tone - II, operator intervening	425	0.5 on 0.2 off
Call waiting tone - I	425	0.2 on 0.6 off 0.2 on
Call waiting tone - II	400	0.5 on 0.5 off
Cyprus (Republic of)		
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.25 on 0.25 off
Dial tone -	350+450	continuous
Number unobtainable tone -	425	2.5 on 0.5 off
Pay tone -	1638/1206/943	3x(0.068 on 0.068 off)
Ring tone -	425	1.5 on 3.0 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Warning tone - operator intervening	1400	0.5 on 14.0 off
Call waiting tone -	425	0.1 on 0.1 off 0.1 on 5.0 off
Czech Republic		
Busy tone -	425	0.33 on 0.33 off
Congestion tone -	425	0.165 on 0.165 off
Dial tone -	425	0.33 on 0.33 off 0.66 on 0.66 off
Ring tone -	425	1.0 on 4.0 off
Special information tone -	950/1400/1800	(3x0.33 on 2x0.03 off) 1.0 off
Call waiting tone -	425	0.33 on 9.0 off
Caller waiting tone -	425	1.00 on 0.17 off 0.33 on 3.50 off
Democratic Republic of the Congo		
Busy tone -	450	0.5 on 0.5 off
Congestion tone -	450	0.5 on 0.5 off
Dial tone -	450	continuous
Ring tone -	450	2.0 on 4.0 off
Denmark		
Busy tone - I	425	0.25 on 0.25 off
Busy tone - II (1)	425	0.5 on 0.5 off
Congestion tone - I	425	0.25 on 0.25 off
Congestion tone - II (1)	425	0.2 on 0.2 off
Dial tone -	425	continuous
Ring tone -	425	1.0 on 4.0 off
Special information tone -	950/1400/1800	3x0.33 on 1.00 off
Call waiting tone - I	425	0.2 on 0.2 off 0.2 on 3.6 off 0.2 on 0.2 off

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Call waiting tone - II (1)	425	0.2 on 0.2 on 0.6 off 0.2 on 3.0 off 0.2 on 0.6 off 0.2 on
Diego Garcia		
Busy tone -	480/620	interrupted at 60 ipm
Dial tone -	350/440	continuous
Number unobtainable tone -	480/620	interrupted at 120 ipm
Ringing tone -	440/480	1.0 on 3.0 off
Djibouti (Republic of)		
Busy tone -	425	0.5 on 0.5 off
Dial tone -	425	continuous
Ringing tone -	425	1.5 on 3.5 off
Route tone -	425	0.05 on 0.05 off
Dominica (Commonwealth of)		
Busy tone -	480+620	0.5 on 0.5 off
Congestion tone -	480+620	0.25 on 0.25 off
Dial tone -	350+440	continuous
Ringing tone -	440+480	2.0 on 4.0 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Call waiting tone -	440	1x(0.5 on 10.0 off 0.5 on)
Dominican Republic		
Busy tone - I	400	0.8 on 0.8 off
Busy tone - II	400	0.375 on 0.375 off
Congestion tone - I	400	0.8 on 0.8 off
Congestion tone - II	400	0.375 on 0.375 off
Dial tone - I	50	continuous
Dial tone - II	33	0.0166 on 0.0166 off
Number unobtainable tone -	400	continuous
Ringing tone -	400//450	0.4 on 0.2 off 0.4 on 2.2 off
Ecuador		
Busy tone -	425	0.33 on 0.33 off
Congestion tone -	425	0.33 on 0.33 off
Dial tone -	425	continuous
Ringing tone -	425	1.2 on 4.65 off
Call waiting tone -	425	0.2 on 0.6 off
Egypt (Arab Republic of)		
Busy tone -	425x50	1.0 on 4.0 off
Congestion tone -	450	0.5 on 0.5 off
Intrusion tone -	450	0.5 on 0.5 off
Payphone recognition tone -	1100+1750/750+1450	0.2 on 0.2 off 0.2 on 2.0 off
Ringing tone -	425x50	2.0 on 1.0 off
Special information tone -	950/1400/1800	0.33 on 0.33 off 0.33 on 0.33 off 0.33 on 0.33 off
El Salvador (Republic of)		
Busy tone -	425	0.32 on 0.32 off
Congestion tone -	425	0.32 on 0.32 off
Dial tone -	425	continuous
Special dial tone -	425	0.40 on 0.04 off
Intrusion tone -	425	0.20 on 0.20 off 0.50 on 0.20 off
Line lock-out tone -	425	0.167 on 0.167 off 0.500 on 0.167 off
Ringing tone -	425	1.2 on 4.6 off
Special information tone -	950/1400/1800	3x0.33 on 1.00 off
Warning tone -	1400	0.20 on 0.60 off
Call waiting tone -	425	0.35 on 15.0 off
Estonia (Republic of)		
Busy tone -	425	0.3 on 0.3 off
Congestion tone -	425	0.2 on 0.2 off
Dial tone -	425	continuous
Pay tone -	16000	1.15 on 0.35 off
Ringing tone -	425	1.0 on 4.0 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Call waiting tone -	950/1400/1800	3x0.33 on 0.3 off
Ethiopia (Federal Democratic Republic of)		
Acceptance tone -	425	continuous

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Busy tone -	425	0.4 on 0.4 off
Congestion tone -	425	0.4 on 0.4 off
Dial tone -	425	continuous
Special dial tone -	425	0.4 on 0.04 off
Intrusion tone -	425	0.5 on 0.2 off
Line lock-out tone -	425	0.4 on 0.4 off
Refusal tone -	425	0.4 on 0.4 off
Ringtone -	425	1.0 on 4.0 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Warning tone -	1400	0.5 on 11.5 off
Call waiting tone -	425	0.2 on 0.6 off
Falkland Islands (Malvinas)		
Busy tone -	400	0.375 on 0.375 off
Congestion tone -	400	0.4 on 0.35 off 0.255 on 0.525 off
Dial tone -	350+450	continuous
Number unobtainable tone -	400	continuous
Ringtone -	400+450	0.4 on 0.2 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Warning tone - operator intervening	1000	0.1 on 0.1 off
Faroe Islands		
Busy tone -	425	0.25 on 0.25 off
Congestion tone -	425	0.25 on 0.25 off
Dial tone -	425	continuous
Number unobtainable tone -	950/1400/1800	3x0.33 on 1.0 off
Ringtone -	425	1.0 on 4.0 off
Fiji (Republic of)		
Acceptance tone -	425	continuous
Busy tone -	425	0.75 on 0.75 off
Congestion tone -	425	0.37 on 0.37 off 0.37 on 0.37 off
Dial tone -	400+450	continuous
Second dial tone -	425	continuous
Special dial tone -	400+450	0.40 on 0.04 off
Line lock-out tone -	425	0.2 on 0.6 off 0.2 on 4.0 off
Number unobtainable tone -	400	2.5 on 0.5 off
Offering tone, trunk -	425	0.17 on 0.17 off 0.50 on 0.17 off
Refusal tone -	425	0.24 on 0.76 off
Ringtone -	425x25	0.4 on 0.2 off 0.4 on 2.0 off
Special ringing tone -	425x25	1.0 on 5.0 off 1.0 on 5.0 off
Special information tone -	925/1400/1800	3x0.38 on 1.00 off
Warning tone -	1400	0.5 on 12.0 off
Finland		
Busy tone -	425	0.3 on 0.3 off
Congestion tone -	425	0.2 on 0.2 off
Dial tone -	425	continuous
Special dial tone -	425	0.65 on 0.025 off
Queue tone -	950/950/1400	0.65 on 0.325 off 0.325 on 1.3 on 2.6 off
Ringtone - (11)	425	1.0 on 4.0 off
Special information tone -	950/1400/1800	3x0.333 on 1.0 off
Warning tone - operator intervening	425	0.2 on 0.3 off 0.2 on 1.3 off
Call waiting tone -	425	0.15 on 0.15 off 0.15 on 8.0 off
France		
Busy tone -	440	0.5 on 0.5 off
Dial tone -	440	continuous
Ringtone -	440	1.5 on 3.5 off
Special information tone -	950/1400/1800	3x(0.3 on 0.03 off) 1.0 off
Call waiting tone -	440	0.3 on 10.0 off
French Departments and Territories in the Indian Ocean		
Busy tone -	440	0.5 on 0.5 off
Dial tone -	440	continuous
Ringtone -	440	1.5 on 3.5 off
Special information tone -	950/1400/1800	3x(0.3 on 0.03 off) 1.0 off
Call waiting tone -	440	0.3 on 10.0 off
French Guiana (French Department of)		
Busy tone -	440	0.5 on 0.5 off

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Dial tone -	440	continuous
Ringling tone -	440	1.5 on 3.5 off
Special information tone -	950/1400/1800	3x(0.3 on 0.03 off) 1.0 off
Call waiting tone -	440	0.3 on 10.0 off
French Polynesia (Territoire français d'outre-mer)		
Acceptance tone -	440	1.7 on 3.3 off
Busy tone -	440	0.5 on 0.5 off
Congestion tone -	440	0.5 on 0.5 off
Dial tone -	440	continuous
Second dial tone -	440+330	continuous
Howler tone -	3000	continuous
Pay tone -	440	continuous
Ringling tone -	440	1.7 on 3.3 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Call waiting tone -	440	1.7 on 3.3 off
Gabonese Republic		
Busy tone -	440	0.5 on 0.5 off
Congestion tone -	440	0.5 on 0.5 off
Dial tone -	440	continuous
Ringling tone -	440	1.7 on 3.3 off
Special information tone -	950/1400/1800	0.30 on 0.33 off
Call waiting tone -	1800	0.5 on 2.5 off
Gambia (Republic of the)		
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.5 on 0.5 off
Dial tone -	425	continuous
Ringling tone -	425	1.0 on 4.0 off
Special information tone -	1400	0.330 on 0.030 off
Call waiting tone -	950	0.330 on 0.030 off
Georgia		
Busy tone -	425	1.0 on 3.0 off
Congestion tone -	425	1.0 on 1.0 off
Dial tone -	425	continuous
Ringling tone -	25	1.0 on 4.0 off
Call waiting tone -	425	0.125 on
Germany (Federal Republic of)		
Busy tone -	425	0.48 on 0.48 off
Congestion tone -	425	0.24 on 0.24 off
Dial tone -	425	continuous
Special dial tone -	425+400	continuous
Payphone recognition tone -	1633/1336	5x(0.2 on 0.2 off 0.2 on 2.0 off)
Ringling tone -	425	1.0 on 4.0 off
Special information tone -	900/1400/1800	3x0.33 on 1.0 off
Warning tone - operator intervening	425	0.24 on 0.24 off 0.24 on 1.28 off
Call waiting tone - (2)	425	0.2 on 0.2 off 0.2 on 5.0 off
Ghana		
Busy tone -	400	0.25 on 0.25 off
Congestion tone -	400	0.5 on 0.5 off
Dial tone -	400	continuous
Holding tone -	400	0.5 on 0.5 off 0.5 on 0.25 off
Number unobtainable tone -	400	0.075 on 0.1 off 0.075 on 0.1 off 0.075 on 0.4 off
Ringling tone -	400	1.0 on 4.0 off
Waiting tone -	400	0.5 on 0.3 on 0.2 off 0.3 on 0.2 off 3.0 off
Gibraltar		
Busy tone -	400	0.375 on 0.375 off
Congestion tone -	400	0.4 on 0.35 off 0.225 on 0.525 off
Dial tone -	350+400	continuous
Number unobtainable tone -	400	continuous
Ringling tone -	400+450	0.4 on 0.2 off 0.4 on 2.0 off
Waiting tone -	400	0.1 on 3.0 off
Greece		
Busy tone -	425	0.3 on 0.3 off
Congestion tone -	425	0.15 on 0.15 off
Dial tone -	425	0.2 on 0.3 off 0.7 on 0.8 off

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Special dial tone -	400/425//425/450	0.2 on 0.3 off 0.7 on 0.8 off
Holding tone -	900	0.5 on 0.5 off
Intrusion tone -	425	0.15 on 0.25 off 0.15 on 1.45 off
Ringing tone -	425	1.0 on 4.0 off
Special information tone -	950/1450/1800	3x0.33 on 1.0 off
Call waiting tone -	425	0.3 on 10.0 off 0.3 on 10.0 off
Greenland (Denmark)		
Busy tone -	445//425	0.25 on 0.25 off
Congestion tone -	445//425	0.25 on 0.25 off
Dial tone -	445//425	continuous
Second dial tone -	445//425	continuous
Number unobtainable tone - I	950/1400/1800	3x0.33 on 1.0 off
Number unobtainable tone - II	425	0.25 on 0.25 off
Pay tone -	950/1400/1800	3x0.22 on 1.0 off
Ringing tone -	445//425	1.0 on 4.0 off
Grenada		
Busy tone -	460+620	0.5 on 0.5 off
Congestion tone -		announcement
Ringing tone -	440+480	2.0 on 4.0 off
Guadeloupe (French Department of)		
Busy tone -	440	0.5 on 0.5 off
Dial tone -	440	continuous
Ringing tone -	440	1.5 on 3.5 off
Special information tone -	950/1400/1800	3x(0.3 on 0.03 off) 1.0 off
Call waiting tone -	440	0.3 on 10.0 off
Guinea (Republic of)		
Busy tone -	450	0.2 on 0.2 off
Ringing tone -	450	0.4 on 0.2 off
Guyana		
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.5 on 0.5 off
Dial tone -	360/400	1.3 on 0.3 off 0.2 on 0.5 off
Ringing tone -	425	1.75 on 3.25 off
Waiting tone -	480	0.5 on 18.0 off
Honduras (Republic of)		
Busy tone -	440	0.5 on 0.5 off
Congestion tone -	440	0.25 on 0.25 off
Dial tone -	440	continuous
Ringing tone -	440	1.0 on 4.0 off
Call waiting tone -	440	0.5 on 0.5 off 2.0 on 4.0 off
Hong Kong, China		
Busy tone -	480+620	0.5 on 0.5 off
Congestion tone -	480+620	0.25 on 0.25 off
Dial tone -	350+440	continuous
Number unobtainable tone -	480+620	continuous
Ringing tone -	440+480	0.4 on 0.2 off 0.4 on 3.0 off
Hungary (Republic of)		
Busy tone -	425	0.3 on 0.3 off
Congestion tone -	425	0.3 on 0.3 off
Dial tone -	425	continuous
Second dial tone -	425+450	continuous
Special dial tone -	350+375+400	continuous
Negative indication tone -	300+425	0.2 on 0.2 off 0.2 on 0.2 off 0.2 on 0.2 off + announcement
Offering tone, trunk -	425	0.3 on 0.3 off 0.3 on 1.5 off
Pay tone -	600//1100	(3 or 5)(0.15 on 0.15 off)
Positive indication tone -	300+425	1.0 on 0.2 off + announcement
Payphone recognition tone -	1100+1750//750+1450	0.2 on 0.2 off 0.2 on 2.0 off
Ringing tone -	425	1.25 on 3.75 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Warning tone -	425	0.3 on 0.3 off 0.3 on 1.5 off
Call waiting tone -	425	0.04 on 1.96 off
Iceland		
Busy tone -	425	0.25 on 0.25 off

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Congestion tone -	425	0.25 on 0.25 off
Dial tone -	425	continuous
Special dial tone - (7)	425	0.4 on 0.04 off
Number unobtainable tone -		announcement
Payphone recognition tone -	1633/1209	0.2 on 0.2 off 0.2 on 2.0 off
Ringing tone -	425	1.0 on 4.0 off
Warning tone -	425	0.4 on 15.0 off
Waiting tone -	425	4x(0.2 on 0.2 off 0.2 on 3.6 off 0.2 on 0.2 off 0.2 on)
India (Republic of)		
Acceptance tone -	400	1.0 on 4.0 off
Busy tone -	400	0.75 on 0.75 off
Congestion tone -	400	0.25 on 0.25 off
Dial tone -	400x25	continuous
Special dial tone -	400	2.8 on 0.2 off
Holding tone -	400	0.25 on 0.25 off 0.25 on 3.25 off
Intrusion tone -	400	0.15 on 4.85 off
Refusal tone -	400	0.25 on 0.25 off
Ringing tone - I (local calls)	400x25	0.4 on 0.2 off 0.4 on 2.0 off
Ringing tone - II (NSD/ISD calls)	400x25	1.0 on 2.0 off
Route tone -	400	0.1 on 0.9 off
Call waiting tone -	400	0.2 on 0.1 off 0.2 on 7.5 off
Indonesia (Republic of)		
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.25 on 0.25 off
Dial tone -	425	continuous
Payphone recognition tone -	1200/800	0.2 on 0.2 off 0.2 on 0.2 off
Ringing tone -	425	1.0 on 4.0 off
Special information tone -	950/1400/1800	3x(0.33 on 0.03 off) 1.0 off
Call waiting tone -	425	0.15 on 0.15 off 0.15 on 10.0 off
Iran (Islamic Republic of)		
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.25 on 0.25 off
Dial tone -	425	continuous
Offering tone, trunk -	425	0.2 on 0.2 off 0.2 on 1.4 off
Preemption tone -	1400	3x(0.1 on) 0.1 off
Ringing tone -	425	1.0 on 4.0 off
Re-order tone -	425	0.25 on 0.25 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Test number tone -	800	continuous
Call waiting tone -	425	0.2 on 0.2 off 0.2 on 10.0 off
Iraq (Republic of)		
Busy tone -	400	1.0 on 1.0 off
Recall dial tone -	133	0.4 on 0.2 off 0.4 on 1.5 off
Ringing tone -	400	continuous
Ireland		
Busy tone -	425	0.5 on 0.5 off
Dial tone -	400//425//450	continuous
Pay tone -	12000	0.12 on
Ringing tone -	400+450//425	0.4 on 0.2 off 0.4 on 2.0 off
Route tone -	425	0.06 on 0.06 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Call waiting tone -	425	0.18 on 0.20 off 0.20 on 4.50 off
Israel (State of)		
Busy tone -	400	0.5 on 0.5 off
Confirmation tone - I	400	1x(0.17 on 0.14 off 0.34 on)
Confirmation tone - II	400	0.04 on 0.04 off
Dial tone -	400	continuous
Second dial tone -	400	3x(0.1 on 0.1 off) + continuous
Recall dial tone -	400	3x(0.1 on 0.1 off) + continuous
Special dial tone -	400	1.0 on 0.25 off
Holding tone -	400	0.05 on 2.0 off
Number unobtainable tone -	1000/1400/1800	3x0.333 on 1.0 off +announcement
Pay tone -	16000	0.18 on
Payphone recognition tone -	1209/852	5x(0.2 on 0.2 off 0.2 on 2.0 off)
Ringing tone -	400	1.0 on 3.0 off

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Search tone - mobile	1004	0.01 on 1.0 off
Special information tone -	1000/1400/1800	3x0.333 on 1.0 off + announcement
Waiting tone - message	400	10x(0.16 on 0.16 off) + continuous
Call waiting tone -	400	1x(0.5 on 10.0 off 0.5 on)
Caller waiting tone -	400	2x(0.1 on 0.1 off) 0.6 on 3.0 off
Italy		
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.2 on 0.2 off
Dial tone -	425	0.2 on 0.2 off 0.6 on 1.0 off
Special dial tone -	425	continuous
Ringing tone -	425	1.0 on 4.0 off
Special information tone -		announcement
Call waiting tone - (4)	425	0.40 on 0.10 off 0.25 on 0.10 off 0.15 on
Jamaica		
Busy tone -	480+620	0.5 on 0.5 off
Congestion tone -	480+620	0.25 on 0.25 off
Dial tone -	350+440	continuous
Ringing tone -	440+480	2.0 on 4.0 off
Call waiting tone -	440	0.25 on 0.25 off
Japan		
Busy tone - (3)	400	0.5 on 0.5 off
Dial tone - I	400	continuous
Dial tone - II, pabx	400	0.25 on 0.25 off
Dial tone - III	400	0.125 on 0.125 off 0.125 on 0.125 off 0.125 on 0.125 off 0.125 on 0.125 off 0.75 on 0.25 off
Second dial tone - (3)	400	0.125~0.15 on 0.1~0.125 off
Pay tone -	250	0.5 on
Positive indication tone - I	400	0.125 on 0.125 off 0.125 on 0.625 off
Positive indication tone - II	400	0.125 on 0.125 off 0.625 on 0.125 off
Ringing tone - I	400x(15~20)	1.0 on 2.0 off
Ringing tone - II, pabx	400x20	1.0 on 2.0 off
Call waiting tone - I	400x16/400	0.5 on 0.0~4.0 off 0.05 on 0.45 off 0.05 on 3.45 off
Call waiting tone - II	400x16/400	0.1 on 0.1 off 0.1 on 3.0 off
Call waiting tone - III	400x16/400	0.064 on 0.436 off 0.064 on 3.436 off
Call waiting tone - IV	400x16/400	0.25 on 0.25 off 0.25 on 3.25 off
Call waiting tone - V	400x16/400	0.5 on 0.5 off 0.5 on 2.5 off
Call waiting tone - VI	400x16/400	0.5 on 0.0~4.0 off 0.05 on 0.45 off 0.05 on 0.45 off 0.05 on 0.45 off 0.05 on 2.45 off
Jordan (Hashemite Kingdom of)		
Busy tone -	420x40	0.5 on 0.5 off
Congestion tone -	420x40	0.25 on 0.25 off
Dial tone -	420x40	continuous
Holding tone -	420x40	0.5 on 8.0 off
Howler tone -	950	continuous
Intrusion tone -	420x40	0.2 on 0.2 off 0.2 on 1.3 off
Number unobtainable tone -	420x40	0.12 on 0.12 off
Ringing tone -	420x40	1.0 on 4.0 off
Special information tone -	(950/1400/1800)x40	1.0 on 1.0 off
Call waiting tone -	420x40	0.15 on 0.15 off
Kenya (Republic of)		
Busy tone -	425	0.2 on 0.6 off 0.2 on 0.6 off
Congestion tone -	425	0.2 on 0.6 off
Dial tone -	425	continuous
Pay tone - I	941	0.2 on 0.2 off
Pay tone - II	800/1600	0.08 on 0.08 off
Payphone recognition tone -	1633	0.08 on 1.5 off
Ringing tone -	425	0.67 on 3.0 off 1.5 on 5.0 off
Special information tone -	900/1400/1800	3x0.75 on 1.25 off
Warning tone - operator intervening	425	0.2 on 0.2 off
Call waiting tone -	425	continuous
Kiribati (Republic of)		
Busy tone -	425	0.375 on 0.375 off
Congestion tone -	425	0.375 on 0.375 off
Dial tone -	425	continuous

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Number unobtainable tone -	425	2.5 on 0.5 off
Ringling tone -	425	0.4 on 0.2 off 0.4 on 2.0 off
Call waiting tone -	425	0.1 on 0.2 off 0.1 on 4.7 off
Korea (Republic of)		
Busy tone -	480+620	0.5 on 0.5 off
Congestion tone -	480+620	0.3 on 0.2 off
Dial tone -	350+440	continuous
Recall dial tone - I	400//450	1.0 on 4.0 off
Recall dial tone - II	400//450	1.0 on 2.0 off
Intercept tone -	350+440	0.125 on 0.25 off 0.125 on 1.5 off
Number unobtainable tone -	450	0.2 on 0.1 off 0.2 on 1.5 off
Ringling tone -	440+480	1.0 on 2.0 off
Warning tone - operator intervening	392/494/587	2x(0.5 on 0.5 on 1.5 on)
Waiting tone -	350+440	0.25 on 0.25 off 0.25 on 3.25 off
Kuwait (State of)		
Acceptance tone -	425	continuous
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.25 on 0.25 off
Dial tone -	425	continuous
Second dial tone -	425	continuous
Special dial tone -	425	0.40 on 0.04 off
Line lock-out tone -	425	0.32 on 0.32 off
Refusal tone -	425	0.1 on 0.4 off
Ringling tone -	425	1.0 on 4.0 off
Route tone -	425	0.1 on 0.1 off
Special information tone -	950/1400/1800	3x0.33 on 1.00 off
Warning tone -	425	0.34 on 5.0 off
Call waiting tone -	425	1.0 on 4.0 off
Kyrgyz Republic		
Busy tone -	425	0.4 on 0.4 off
Congestion tone -	425	0.2 on 0.2 off
Dial tone -	425	continuous
Second dial tone -	425	continuous
Special dial tone -	425	1.0 on 0.2 off
Howler tone -	1000	continuous
Negative indication tone -	425	1x(0.2 on 0.2 off 0.2 on 0.2 off 0.2 on)
Number unobtainable tone -	950/1400/1800	3x0.33 on 1.0 off
Positive indication tone -	425	1x(0.2 on)
Ringling tone -	425	0.8 on 3.2 off
Route tone -	50	0.1 on 1.5 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Warning tone - voice mail	425	1x(0.2 on 0.6 off 0.2 on 0.6 off 0.2 on)
Call waiting tone -	425	1x(0.2 on 0.6 off 0.2 on 3.0 off 0.2 on 0.6 off 0.2 on)
Caller waiting tone -	425	0.2 on 5.0 off
Lao People's Democratic Republic		
Busy tone -	425	1.0 on 1.0 off
Confirmation tone -	950	continuous
Congestion tone -	425	0.375 on 0.375 off
Dial tone -	425	continuous
Special dial tone -	425	0.4 on 0.04 off
Number unobtainable tone -	425	2.5 on 0.5 off
Ringling tone -	425	1.0 on 4.0 off
Waiting tone -	425	0.4 on 0.4 off
Latvia (Republic of)		
Busy tone -	425	0.3 on 0.3 off
Confirmation tone -	425	0.4 on 0.4 off
Congestion tone -	425	0.15 on 0.15 off
Dial tone -	425	continuous
Ringling tone -	425	1.0 on 4.0 off
Special information tone -	950/1400/1600	3x0.33 on 1.0 off
Call waiting tone -	425	0.2 on 5.0 off
Lebanon		
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.24 on 0.24 off
Dial tone -	425	continuous

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Ringling tone -	425	1.0 on 4.0 off
Special information tone -	425	0.2 on 0.2 off
Call waiting tone -	425	0.2 on 0.6 off
Lesotho (Kingdom of)		
Busy tone - I	425	1.0 on 1.0 off
Busy tone - II	425	0.5 on 0.5 off
Congestion tone - I	425	0.5 on 0.5 off
Congestion tone - II	425	0.2 on 0.2 off
Dial tone -	425	continuous
Pay tone -	16000	0.7 on 3.0 off
Ringling tone -	400/425	1.0 on 4.0 off
Special information tone - I	425	0.16 on 2.0 off
Special information tone - II	900/1400/1800	3x0.3 on 1.0 off
Call waiting tone - I	425	1.0 on 3.0 off
Call waiting tone - II	425	0.15 on 0.15 off
Liberia (Republic of)		
Busy tone -	425	0.5 on 0.5 off
Dial tone -	425	continuous
Number unobtainable tone -	425	0.6 on 0.2 off 3x(0.2 on 0.2 off)
Ringling tone -	425//450	1.0 on 4.0 off
Liechtenstein (Principality of)		
Busy tone - I	425	0.3 on 0.3 off
Busy tone - II	420	0.4 on 0.4 off
Busy tone - III	400	0.36 on 0.36 off
Busy tone - IV	425	0.5 on 0.5 off
Congestion tone -	425//420	0.2 on 0.2 off
Dial tone -	420	continuous
Recall dial tone -	420	continuous
Special dial tone -	380+420	continuous
Negative indication tone -	380+420	0.4 on 0.4 off
Number unobtainable tone -	950/1400/1800	3x0.33 on 1.0 off
Pay tone - I	1336/1633	0.2 on 0.2 off 0.2 on 0.2 off
Pay tone - II	800	0.2 on 0.2 off
Pay tone - III	1200	0.2 on 2.0 off
Positive indication tone -	380+420	1.0 on 5.0 off
Ringling tone - I	425	continuous
Ringling tone - II	420	1.0 on 5.0 off
Ringling tone - III	400//425	1.0 on 4.0 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Warning tone -	420	0.15 on 0.15 off 0.15 on 1.95 off
Call waiting tone - I	425	0.15 on 8.0 off
Call waiting tone - II	420	0.04 on 1.95 off
Call waiting tone - III	425	0.2 on 0.2 off 0.2 on 4.0 off
Lithuania (Republic of)		
Busy tone -	425	0.35 on 0.35 off
Congestion tone -	425	0.2 on 0.2 off
Dial tone -	425	continuous
Ringling tone -	425	1.0 on 4.0 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Call waiting tone - I	425	0.15 on 0.15 off 0.15 on 4.0 off
Call waiting tone - II	425	0.2 on 5.0 off
Luxembourg		
Busy tone -	425//2125	0.48 on 0.48 off
Congestion tone -	425//2125	0.24 on 0.24 off
Dial tone -	425//2125	continuous
Special dial tone -	400//425	continuous
Ringling tone -	425//2125	1.0 on 4.0 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Test number tone -	1000	continuous
Call waiting tone -	425	continuous
Macao, China		
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.25 on 0.25 off
Dial tone -	425	continuous
Special dial tone -	425	1.8 on 0.2 off
Payphone recognition tone -	1100+1750/750+1450	0.2 on 0.2 off 0.2 on 0.2 off

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Ringing tone -	425	1.0 on 4.0 off
Special information tone -	950/1400/1800	3x0.333 on 1.0 off
Call waiting tone -	425	0.2 on 0.6 off
Madagascar (Republic of)		
Busy tone -	440//425	0.5 on 0.5 off
Congestion tone -		announcement
Dial tone -	440//425	continuous
Special dial tone -	330+440	continuous
Facilities tone -	950	continuous
Pay tone -		announcement
Ringing tone -	440//425	1.7 on 3.3 off
Route tone -	440//425	0.05 on 0.05 off
Special information tone -	440	0.40 on 0.04 off
Call waiting tone -	440	0.1 on 1.9 off
Malawi		
Busy tone -	425	0.5 on 0.5 off
Dial tone -	425	continuous
Intrusion tone - (4)	1400	0.35 on 0.5 off
Payphone recognition tone -	1100+1750/750+1450	2x(0.2 on 0.2 off)
Ringing tone -	425	1.0 on 4.0 off
Special ringing tone -	425	1.0 on 4.0 off
Special information tone -	950/1400/1800	3x0.3 on 1.0 off
Malaysia		
Busy tone -	425	0.5 on 0.5 off
Congestion tone - I	425	0.50 on 0.25 off
Congestion tone - II	425	0.5 on 0.5 off
Dial tone -	425	continuous
Ringing tone - I	425	0.4 on 0.2 off 0.4 on 2.0 off
Ringing tone - II	425	1.0 on 3.0 off 1.0 on 5.0 off
Maldives (Republic of)		
Busy tone -	400	0.5 on 0.5 off
Congestion tone -	400	0.25 on 0.25 off
Dial tone -	400/50	continuous
Ringing tone -	400	0.4 on 0.2 off 0.4 on 2.0 off
Call waiting tone -	400	0.2 on 0.6 off 0.2 on 4.0 off
Mali (Republic of)		
Busy tone -	425	0.5 on 0.5 off
Congestion tone -		announcement
Dial tone -	425	continuous
Pay tone -		announcement
Ringing tone -	425	1.5 on 3.0 off
Route tone -	425	0.05 on 0.05 off
Special information tone -	900/1400/1800	0.35 on 0.30 on 0.35 on 1.0 off
Call waiting tone -	425	0.3 on 10.0 off
Malta		
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.5 on 0.5 off
Dial tone -	425	0.2 on 0.2 off 0.6 on 1.0 off
Special dial tone -	425	0.4 on 0.04 off
Intercept tone -	950/1400/1800	3x0.24 on 1.0 off
Ringing tone -	425	1.0 on 4.0 off
Special information tone -		announcement
Call waiting tone -	1400	0.34 on 1.5 off
Martinique (French Department of)		
Busy tone -	440	0.5 on 0.5 off
Dial tone -	440	continuous
Ringing tone -	440	1.5 on 3.5 off
Special information tone -	950/1400/1800	3x(0.3 on 0.03 off) 1.0 off
Call waiting tone -	440	0.3 on 10.0 off
Mauritania (Islamic Republic of)		
Busy tone -	425	0.5 on 0.5 off
Dial tone -	425	continuous
Ringing tone -	425	1.5 on 3.5 off

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Route tone -	425	0.05 on 0.05 off
Mauritius (Republic of)		
Busy tone -	425	0.75 on 0.75 off
Dial tone -	425	continuous
Special dial tone -	425	0.4 on 0.04 off
Ringing tone -	425	1.0 on 4.0 off
Route tone -	425	0.05 on 0.05 off
Call waiting tone -	425	1.0 on 3.0 off
Mayotte		
Busy tone -	440	0.5 on 0.5 off
Dial tone -	440	continuous
Ringing tone -	440	1.5 on 3.5 off
Special information tone -	950/1400/1800	3x(0.3 on 0.03 off) 1.0 off
Call waiting tone -	440	0.3 on 10.0 off
Mexico		
Busy tone -	425	0.25 on 0.25 off
Congestion tone -	425	0.25 on 0.25 off
Dial tone -	425	continuous
Ringing tone -	425	1.0 on 4.0 off
Warning tone - operator intervening	425	0.5 on 0.17 off 0.17 on 0.17 off
Moldova (Republic of)		
Busy tone -	425	0.35 on 0.35 off
Congestion tone -	425	0.2 on 0.2 off
Dial tone -	425	continuous
Pay tone -	1400	3x1.0 on 1.0 off
Ringing tone - I	425	0.8 on 3.2 off
Ringing tone - II	425	1.0 on 4.0 off
Special information tone -	950/1400/1800	3x0.33 on 1.00 off
Call waiting tone -	425	0.2 on 5.0 off
Monaco (Principality of)		
Busy tone -	440	0.5 on 0.5 off
Congestion tone -		announcement
Dial tone -	440	continuous
Ringing tone -	440	1.7 on 3.3 off
Call waiting tone -	440	0.3 on 10.0 off
Montserrat		
Busy tone -	480+620	0.5 on 0.5 off
Congestion tone -	480+620	0.25 on 0.25 off
Dial tone -	350+440	continuous
Recall dial tone -	350+440	3x(0.1 on 0.1 off) + continuous
Number unobtainable tone -	480+620	0.25 on 0.25 off
Payphone recognition tone -	1600/1143	0.2 on 0.2 off 0.2 on 2.0 off
Ringing tone -	440+480	2.0 on 4.0 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Warning tone - operator intervening	450	0.2 on 0.2 off 0.65 on 0.2 off
Waiting tone -	440	1x(0.5 on 10.0 off 0.5 on)
Morocco (Kingdom of)		
Busy tone - I	425	0.5 on 0.5 off
Busy tone - II	425	0.4 on 0.4 off
Congestion tone - I	425	0.5 on 0.5 off
Congestion tone - II	425	0.4 on 0.4 off
Dial tone -	425	continuous
Ringing tone - I	425	1.7 on 3.3 off
Ringing tone - II	425	1.0 on 4.0 off
Ringing tone - III	425	2.0 on 2.0 off
Mozambique (Republic of)		
Busy tone -	400	0.5 on 0.5 off
Number unobtainable tone -	400	0.2 on 0.2 off
Ringing tone -	400	1.0 on 5.0 off
Myanmar (Union of)		
Busy tone -	450	0.25 on 0.25 off
Congestion tone -	480	0.5 on 0.5 off
Dial tone -	400+450	continuous
Ringing tone -	400	2.0 on 4.0 off

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Call waiting tone -	400	0.3 on 10.0 off
Namibia (Republic of)		
Busy tone -	400	0.5 on 0.5 off
Congestion tone -	400	0.25 on 0.25 off
Dial tone -	400x33	continuous
Ringtone -	400x33	0.4 on 0.2 off 0.4 on 2.0 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Call waiting tone -	400x33	continuous
Nauru (Republic of)		
Busy tone -	400	0.5 on 0.5 off
Busy tone - pabx	425	0.375 on 0.375 off
Congestion tone - pabx	425	0.375 on 0.375 off
Dial tone -	400	continuous
Dial tone - pabx	33	continuous
Recall dial tone - pabx	33	continuous
Number unobtainable tone -	400	0.75 on 0.25 off 0.25 on 0.25 off
Ringtone -	400	1.0 on 4.0 off
Ringtone - pabx	425x25	0.4 on 0.2 off 0.4 on 2.0 off
Nepal (Federal Democratic Republic of)		
Busy tone -	425	0.25 on 0.25 off
Congestion tone -	425	0.175 on 0.175 off
Dial tone -	425	continuous
Number unobtainable tone -	425	0.25 on 0.5 off
Ringtone -	425	1.1 on 3.1 off
Netherlands (Kingdom of the)		
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.25 on 0.25 off
Dial tone -	425	continuous
Special dial tone -	425	0.5 on 0.05 off
Ringtone -	425	1.0 on 4.0 off
Special information tone -	950/1400/1800	3x0.333 on 1.0 off
Waiting tone -	425	0.5 on 9.5 off
New Caledonia (Territoire français d'outre-mer)		
Busy tone -	440	0.5 on 0.5 off
Congestion tone -	950/1400/1800	2x[3x0.33 on + announcement]
Dial tone -	440//330+440	continuous
Ringtone -	440	1.7 on 3.3 off
Special information tone -	950/1400/1800	2x[3x0.33 on + announcement]
Call waiting tone -	440	4x(0.5 on 0.5 off 0.5 on)
New Zealand		
Busy tone -	400	0.5 on 0.5 off
Congestion tone -	400	0.25 on 0.25 off
Dial tone - I (3)	400	continuous
Dial tone - II (message waiting)	400	12x(0.1 on 0.1 off) + continuous
Recall dial tone -	400	3x(0.1 on 0.1 off) + continuous
Holding tone -	400+450	0.5 on 0.5 off 0.5 on 2.5 off
Number unobtainable tone -	400	3x(0.75 on 0.1 off) 0.75 on 0.4 off
Pay tone -	1209/852	0.2 on 0.2 off
Ringtone - I	400+450	0.4 on 0.2 off 0.4 on 2.0 off
Ringtone - II (call waiting)	400+450	0.4 on 0.2 off 0.4 on 0.2 off 0.4 on 1.2 off
Call waiting tone - I	400	3x(0.2 on 3.0 off) 0.2 on
Call waiting tone - II	400	3x(0.1 on 0.1 off 0.1 on 3.0 off)
Call waiting tone - III	400	3x(0.1 on 0.1 off 0.1 on 0.1 off 0.1 on 3.0 off)
Niger (Republic of the)		
Busy tone -	440	0.5 on 0.5 off
Congestion tone -	440	0.5 on 0.5 off
Dial tone -	440	continuous
Second dial tone -	330//440	continuous
Ringtone -	440	1.7 on 3.3 off
Route tone -	440	0.05 on 0.05 off
Nigeria (Federal Republic of)		

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Busy tone -	400	0.5 on 0.5 off
Congestion tone -	400	0.25 on 0.25 off
Dial tone -	400//450	continuous
Recall dial tone -	400//425	continuous
Special dial tone -	425	0.5 on 0.5 off
Holding tone -	950/950/1400	0.65 on 0.325 off 0.325 on 1.3 on 2.6 off
Number unobtainable tone -	450	0.5 on 0.5 off
Ringling tone -	400//450	2.0 on 4.0 off
Special information tone -	400//33	0.2 on 1.5 off
Warning tone - operator intervening	400	0.15 on 0.25 off 0.15 on 1.45 off
Call waiting tone -	400	0.2 on 0.2 off
Norway		
Busy tone -	425	0.5 on 0.5 off
Confirmation tone - (10)	470/425	continuous
Congestion tone -	425	0.2 on 0.2 off
Dial tone -	425	continuous
Special dial tone - (10)	470/425	continuous
Intrusion tone -	1400	1x(2.0 on)
Ringling tone -	425	1.0 on 4.0 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Warning tone - I	1400	0.4 on 15.0 off
Warning tone - II	1400	1x(0.4 on)
Call waiting tone -	425	0.2 on 0.6 off 0.2 on 10.0 off
Oman (Sultanate of)		
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.5 on 0.5 off
Dial tone -	425	continuous
Intrusion tone -	425	0.5 on 0.17 off 0.17 on 0.17 off
Ringling tone -	425	0.4 on 0.2 off 0.4 on 2.0 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Call waiting tone -	425	0.3 on 1.0 off
Pakistan (Islamic Republic of)		
Busy tone -	400	0.5 on 0.5 off
Congestion tone -	400	0.25 on 0.25 off
Ringling tone -	400	1.0 on 2.0 off
Panama (Republic of)		
Busy tone -	425	0.32 on 0.32 off
Congestion tone -	425	0.32 on 0.32 off
Dial tone -	425	continuous
Number unobtainable tone -	425	0.18 on 0.18 off 0.5 on 0.18 off
Ringling tone -	425	1.2 on 4.65 off
Special information tone -	425	0.4 on 0.4 off
Warning tone - operator intervening	425	0.18 on 0.18 off 0.5 on 0.18 off
Call waiting tone -	425	0.18 on 0.18 off 0.18 on
Papua New Guinea		
Busy tone -	425//400	0.375 on 0.375 off
Congestion tone -	425//400	0.375 on 0.375 off
Dial tone -	425//400x25//350+440	continuous
Special dial tone -	425	0.4 on 0.04 off
Number unobtainable tone -	425//400	2.5 on 0.5 off
Payphone recognition tone - I	1209/852	4x(0.2 on 0.2 off 0.2 on 2.0 off)
Payphone recognition tone - II	1336/941	2x(0.2 on 0.2 off 0.2 on 2.0 off)
Payphone recognition tone - III	900	2x(0.075 on 0.15 off 0.075 on 2.7 off)
Ringling tone -	425//400x25//400x16 2/3//400+450//410x20	0.4 on 0.2 off 0.4 on 2.0 off
Special information tone -	950/1400/1800	3x0.33 on 1.01 off
Warning tone - operator intervening	1400	0.5 on 11.5 off
Waiting tone -	425	0.04 on 10.0 off 0.04 on 20.0 off 0.04 on 20.0 off
Paraguay (Republic of)		
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.25 on 0.25 off
Dial tone -	425	continuous
Intrusion tone -	425	0.15 on 0.25 off 0.15 on 1.45 off
Number unobtainable tone -	425	2.0 on 0.25 off
Ringling tone -	425	1.0 on 4.0 off
Special information tone -	950/1400/1800	3x0.333 on 1.0 off

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Call waiting tone -	425	0.3 on 10.0 off
Caller waiting tone -	950/950/1400	0.65 on 0.325 off 0.325 on 1.3 off 2.6 on
Peru		
Acceptance tone -		announcement
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.2 on 0.2 off 0.2 on 0.2 off 0.2 on 0.6 off
Dial tone -	425	continuous
Special dial tone -	425	1.0 on 0.1 off
Howler tone -	1500+3200	0.5 on
Number unobtainable tone -		announcement
Refusal tone -		announcement
Ringing tone -	425	0.15 on 0.30 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Call waiting tone -	425	0.175 on 0.175 off 0.175 on 3.5 off
Philippines (Republic of the)		
Busy tone -	480+620	0.5 on 0.5 off
Congestion tone -	480+620	0.25 on 0.25 off
Conference tone -	440	0.2 on 15.0 off
Dial tone -	425	continuous
Special dial tone -	400+25	continuous
Holding tone -	950/950/1400	0.65 on 0.325 off 0.325 on 1.3 on 2.0 off
Howler tone -	1400+1800	0.2 on 0.3 off
Number unobtainable tone -	600x120	0.25 on 0.25 off
Ringing tone -	425+480	1.0 on 4.0 off
Call waiting tone -	440	0.3 on 10.0 off
Poland (Republic of)		
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.5 on 0.5 off
Dial tone -	425	continuous
Second dial tone -	425+350	continuous
Ringing tone -	425	1.0 on 4.0 off
Route tone -	425	0.05 on 0.05 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Waiting tone -	425	0.15 on 0.15 off 0.15 on 4.0 off
Portugal		
Acceptance tone - I	425	1.0 on 0.2 off
Acceptance tone - II	425	1.0 on 1.0 off 1.0 on 5.0 off
Busy tone - I	425	0.5 on 0.5 off
Busy tone - II (mobile)	400	0.36 on 0.36 off
Congestion tone -	425	0.2 on 0.2 off
Dial tone -	425	continuous
Special dial tone - (mobile)	425	1.0 on 0.2 off
Holding tone -	425	1.5 on 5.12 off
Intrusion tone -	425	3x(0.2 on 1.4 off)
Refusal tone - I	450/1400/1800	3x0.33 on 1.0 off
Refusal tone - II	950/1400/1800	3x0.33 on 1.0 off
Ringing tone - I	425	1.0 on 5.0 off
Ringing tone - II (two party mobiles)	440	1.0 on 4.0 off
Ringing tone - III (three party mobiles)	425	1.5 on 3.5 off
Ringing tone - IV	425	1.0 on 1.0 off 1.0 on 5.0 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Call waiting tone - I	425	0.2 on 0.2 off 0.2 on 5.0 off
Call waiting tone - II	425	0.2 on 0.6 off 0.2 on 3.0 off
Call waiting tone - III	425	0.2 on 0.2 off 0.2 on 10.0 off
Call waiting tone - IV	425	0.2 on 0.6 off 0.2 on 0.6 off
Call waiting tone - V	425	0.2 on 1.0 off 0.2 on 3.0 off
Call waiting tone - VI	425	1.0 on 1.0 off 1.0 on 5.0 off
Puerto Rico		
Payphone recognition tone -	1100+1750/750+1450	0.2 on 0.2 off 0.2 on 2.0 off
Qatar (State of)		
Acceptance tone -	400+450	0.38 on 0.25 off 0.38 on 2.00 off
Busy tone - I	400+450	0.8 on 0.8 off
Busy tone - II	400	0.375 on 0.375 off
Busy tone - III	400	0.5 on 0.5 off

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Congestion tone -	400	0.40 on 0.35 off 0.22 on 0.52 off
Dial tone -	350+440	continuous
Line lock-out tone -	400	0.32 on 0.32 off
Number unobtainable tone -	400	continuous
Refusal tone -	400	continuous
Ringing tone - I	400+450	0.38 on 0.25 off 0.38 on 2.0 off
Ringing tone - II	400+450	0.4 on 0.2 off 0.4 on 2.0 off
Special information tone -	330+440	1.0 on 1.0 off
Call waiting tone -	400	0.3 on 10.0 off
Romania		
Busy tone - I (analogue)	450	0.15 on 0.18 off
Busy tone - II (digital)	450	0.17 on 0.17 off
Dial tone -	450	continuous
Number unobtainable tone - I (analogue)	450	6x(0.11 on 0.092 off) 0.362 on 0.11 off
Number unobtainable tone - II (digital)	450	3x(0.092 on 0.11 off) 0.362 on 0.11 off
Ringing tone - I	450x25	1.85 on 4.15 off
Ringing tone - II	450	1.5 on 4.5 off
Russian Federation		
Busy tone -	425	0.4 on 0.4 off
Ringing tone -	425	0.8 on 3.2 off
Waiting tone -	950/1400/1800	3x0.333 on 1.0 off
Rwanda (Republic of)		
Busy tone -	440	0.5 on 0.5 off
Congestion tone -		announcement
Dial tone -	440	continuous
Second dial tone -	340	continuous
Pay tone -	12000	0.125 on
Ringing tone -	440	1.7 on 3.3 off
Route tone -	440	0.05 on 0.05 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Saint Helena		
Busy tone -	400	0.375 on 0.375 off
Congestion tone -	400	0.4 on 0.35 off
Dial tone -	350+400	continuous
Number unobtainable tone -	400	continuous
Pay tone -	400	0.125 on 0.125 off
Ringing tone -	400+450	0.4 on 0.2 off
Saint Kitts and Nevis		
Busy tone -	480+620	0.5 on 0.5 off
Congestion tone -	480+620	0.25 on 0.25 off
Dial tone -	350+440	continuous
Recall dial tone -	350+440	3x(0.1 on 0.1 off) + continuous
Number unobtainable tone -	480+620	0.25 on 0.25 off
Payphone recognition tone -	1600/1143	0.2 on 0.2 off 0.2 on 2.0 off
Ringing tone -	440+480	2.0 on 4.0 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Warning tone - operator intervening	450	0.2 on 0.2 off 0.65 on 0.2 off
Waiting tone -	440	1x(0.5 on 10.0 off 0.5 on)
Saint Lucia		
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.25 on 0.25 off
Dial tone -	425	continuous
Special dial tone -	425+330	continuous
Pay tone -	622	0.136 on 0.136 off
Ringing tone -	425	0.375 on 0.25 off 0.375 on 2.0 off
Route tone -	425	0.05 on 0.05 off
Warning tone -	425	0.1 on 4.9 off
Call waiting tone -	425	0.2 on 0.2 off 0.2 on 4.0 off
Saint Pierre and Miquelon (Collectivité territoriale de la République française)		
Busy tone -	440	0.5 on 0.5 off
Dial tone -	440	continuous
Ringing tone -	440	1.5 on 3.5 off
Special information tone -	950/1400/1800	3x(0.3 on 0.03 off) 1.0 off

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Call waiting tone -	440	0.3 on 10.0 off
Saint Vincent and the Grenadines		
Busy tone -	400	0.375 on 0.375 off
Congestion tone -	400	0.40 on 0.35 off 0.225 on 0.525 off
Dial tone - I	350+450	continuous
Dial tone - II	350+450	0.75 on 0.75 off
Pay tone -	400	0.125 on 0.125 off
Ringling tone -	400+450	0.4 on 0.2 off 0.4 on 2.0 off
Special information tone -	950/1400/1800	3x(0.33 on 1.0 off)
Call waiting tone - (9)	400	0.1 on
Samoa (Independent State of)		
Busy tone -	425x25	0.375 on 0.375 off
Congestion tone -	425x25	0.375 on 0.375 off
Dial tone -	425x25	continuous
Line lock-out tone -	425x25	0.5 on 0.5 off
Ringling tone -	425x25	0.4 on 0.2 off
San Marino (Republic of)		
Busy tone -	425	0.2 on 0.2 off
Dial tone -	425	0.6 on 1.0 off 0.2 on 0.2 off
Ringling tone -	425	1.0 on 4.0 off
Sao Tome and Principe (Democratic Republic of)		
Busy tone -	400	0.5 on 0.5 off
Congestion tone -	400	0.2 on 0.2 off
Dial tone -	425	continuous
Pay tone -	12000	continuous
Ringling tone -	400	1.0 on 5.0 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Call waiting tone -	425	0.2 on 1.0 off
Saudi Arabia (Kingdom of)		
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.25 on 0.25 off
Conference tone -	425	0.5 on 2.0 off 0.5 on 15.0 off
Dial tone -	425	continuous
Payphone recognition tone -	1600/1200	0.2 on 0.2 off 0.2 on 4.0 off
Ringling tone -	425	1.2 on 4.6 off
Call waiting tone -	425	0.15 on 0.2 off 0.15 on 10.0 off
Senegal (Republic of)		
Busy tone -	440	0.5 on 0.5 off
Dial tone -	440	continuous
Ringling tone -	400	1.7 on 3.3 off
Special information tone -	900/1380/1860	0.35 on 0.30 on 0.35 on
Serbia (Republic of)		
Busy tone -	425	0.5 on 0.5 off
Busy tone - II	425	0.2 on 0.4 off
Dial tone -	425	0.7 on 0.8 off 0.2 on 0.3 off
Ringling tone - I	450x25	1.0 on 9.0 off
Ringling tone - II	425	1.0 on 4.0 off
Special information tone -	950/1400/1800	3x0.333 on 1.0 off
Seychelles (Republic of)		
Busy tone -	425	0.375 on 0.375 off
Congestion tone -	425	0.4 on 0.2 off 0.225 on 0.525 off
Dial tone -	440+350	continuous
Special dial tone -	425	1.0 on 0.1 off
Facilities tone -	425	0.4 on 0.2 off 0.4 on 2.0 off
Howler tone -	3000	continuous
Number unobtainable tone -	425	continuous
Ringling tone -	425	0.4 on 0.2 off 0.4 on 2.0 off
Route tone -	425	0.5 on 0.5 off
Sierra Leone		
Busy tone -	425//450	0.5 on 0.5 off
Congestion tone -	425	0.2 on 0.2 off
Dial tone -	425//450	continuous

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Number unobtainable tone -	950//450/150	0.33 on 0.03 off
Ringling tone -	425//450	1.0 on 4.0 off
Waiting tone -	425	1x(1.0 on)
Singapore (Republic of)		
Acceptance tone -	425	0.125 on 0.125 off
Busy tone -	425	0.75 on 0.75 off
Congestion tone -	425	0.25 on 0.25 off
Dial tone -	425	continuous
Second dial tone -	425	4x(0.2 on 0.2 off 0.6 on 0.2 off) + continuous
Holding tone -	425x24//425	0.5 on 0.5 off // 0.5 on 2.5 off
Intrusion tone -	425	0.25 on 2.0 off
Number unobtainable tone -	425	2.5 on 0.5 off
Ringling tone -	425x24	0.4 on 0.2 off 0.4 on 2.0 off
Warning tone -	425	0.624 on 4.376 off
Call waiting tone -	425	0.3 on 0.2 off 0.3 on 3.2 off
Slovak Republic		
Busy tone -	425	0.33 on 0.33 off
Congestion tone -	425	0.165 on 0.165 off
Conference tone -	425	0.66 on
Dial tone - I	425	0.33 on 0.33 off 0.66 on 0.66 off
Dial tone - II (pabx)	425	continuous
Special dial tone -	425	3x(0.165 on 0.165 off) 0.660 on 0.660 off
Offering tone, trunk -	425	0.33 on 0.33 off 0.33 on 1.50 off
Pay tone - I (cards)	622	0.125 on 0.125 off
Pay tone - II (coins)	941	0.2 on 0.2 off 0.2 on 3.6 off
Ringling tone -	425	1.0 on 4.0 off
Special information tone -	950/1400/1800	(3x0.33 on 2x0.03 off) 1.00 off
Call waiting tone -	425	0.33 on 9.0 off
Caller waiting tone -	425	1.00 on 0.17 off 0.33 on 3.50 off
Slovenia (Republic of)		
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.2 on 0.2 off
Dial tone -	425	0.2 on 0.3 off 0.7 on 0.8 off
Pay tone -	425	0.5 on 15.0 off
Ringling tone -	425	1.0 on 4.0 off
Special information tone -	950/1400/1800	3x0.33 on 1.00 off
Call waiting tone -	425	0.3 on 10.0 off
Solomon Islands		
Busy tone -	400	0.5 on 0.5 off
Congestion tone -	400	0.1 on 0.1 off
Dial tone -	400	continuous
Number unobtainable tone -	400	0.075 on 0.1 off
Pay tone -	852	0.2 on 2.0 off
Ringling tone -	400+450	0.4 on 0.2 off
Waiting tone -	400+450/400	0.5 on 0.5 off
South Africa (Republic of)		
Busy tone -	400	0.5 on 0.5 off
Comfort tone -	950/950/1400	0.65 on 0.325 off 0.325 on 1.3 on 2.6 off
Congestion tone -	400	0.25 on 0.25 off
Dial tone -	400x33	continuous
Special dial tone -	400x33	0.25 on 0.25 off + continuous
Function acknowledge tone -	700/1100	0.25 on 0.25 off 0.25 on 0.25 off
Intrusion tone -	400	0.15 on 0.25 off 0.15 on 1.45 off
Notify tone -	900	0.2 on 0.2 off 0.2 on 0.2 off
Number unobtainable tone -	400	2.5 on 0.5 off
Ringling tone -	400x33	0.4 on 0.2 off 0.4 on 2.0 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Call waiting tone -	400x33	0.4 on 4.0 off
Spain		
Busy tone - I	425	0.2 on 0.2 off
Busy tone - II	425	0.5 on 0.5 off
Congestion tone - I	425	2x(0.2 on 0.2 off) 0.2 on 0.6 off
Congestion tone - II	425	0.25 on 0.25 off
Dial tone -	425	continuous
Special dial tone - I	425	1.0 on 0.1 off

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Special dial tone - I	425+340	1.1 on 1.1 off
Special dial tone - II	425	0.5 on 0.05 off
Ringling tone -	425	1.0 on 4.0 off
Special information tone -	950/1400/1800	3x0.333 on 1.0 off
Call waiting tone -	425	0.2 on 0.2 off 0.2 on 4.0 off
Syrian Arab Republic		
Busy tone -	450	0.5 on 0.5 off
Congestion tone -	450	0.25 on 0.25 off
Dial tone -	450	continuous
Ringling tone -	400//450	1.0 on 0.5 off
Special information tone -	950/1400/1800	(3x0.33 on 2x0.03 off) 1.0 off
Call waiting tone -	450	0.1 on 0.2 off 0.1 on 9.5 off
Tajikistan (Republic of)		
Busy tone -	425	0.4 on 0.4 off
Congestion tone -	425	0.4 on 0.4 off
Dial tone -	425	continuous
Ringling tone -	25	0.8 on 3.2 off
Tanzania (United Republic of)		
Acceptance tone -	425	continuous
Busy tone - I	425	1.0 on 1.0 off
Busy tone - II	400	0.5 on 0.5 off
Congestion tone - I	425	0.375 on 0.375 off
Congestion tone - II	400	0.25 on 0.25 off
Dial tone -	425//400	continuous
Intrusion tone -	425	0.05 on 0.20 off
Pay tone -	1100+1750//750+1450	0.2 on 0.2 off
Refusal tone -	425	1.0 on 1.0 off
Ringling tone - I	425	1.0 on 4.0 off
Ringling tone - II	400	0.4 on 0.2 off 0.4 on 2.0 off
Special information tone - I	950/1400/1800	0.375 on 0.03 off 0.375 on 0.03 off 0.375 on
Special information tone - II	950/1400/1800	3x0.33 on 1.0 off
Test number tone -	2010	continuous
Call waiting tone - I	425	0.05 on 0.20 off
Call waiting tone - II	400	0.4 on 0.2 off
Thailand		
Busy tone -	400	0.5 on 0.5 off
Congestion tone -	400	0.3 on 0.3 off
Dial tone -	400x50	continuous
Special dial tone -	400x50	0.4 on 0.1 off 0.4 on 0.1 off + continuous
Number unobtainable tone -	400	0.1 on 0.1 off 0.1 on 0.1 off 0.1 on 0.1 off 0.3 on
Offering tone, trunk -	400	0.17 on 0.17 off 0.15 on 0.17 off
Ringling tone -	400	1.0 on 4.0 off
Special information tone -		announcement
Call waiting tone -	400	1.0 on 10.0 off 1.0 on
The Former Yugoslav Republic of Macedonia		
Busy tone -	425	0.5 on 0.5 off
Confirmation tone -	425	continuous
Congestion tone -	425	0.2 on 0.2 off
Dial tone -	425	0.2 on 0.3 off 0.7 on 0.8 off
Special dial tone -	425	0.4 on 0.04 off
Intrusion tone -	425	0.2 on 0.3 off 0.7 on 0.8 off
Pay tone -	425	0.5 on 10.0~15.0 off
Ringling tone -	425	1.0 on 4.0 off
Route tone -	425	0.4 on 1.5 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Call waiting tone -	425	0.3 on 8.0~10.0 off
Tokelau		
Busy tone -	400	0.5 on 0.5 off
Congestion tone -	400	0.5 on 0.5 off
Dial tone -	400	continuous
Ringling tone -	400+450	0.4 on 0.2 off
Special information tone -	400	3x(0.075 on 0.1 off)

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Trinidad and Tobago		
Busy tone -	480+620	0.5 on 0.5 off
Dial tone -	350+440	continuous
Ringling tone -	440+480	2.0 on 4.0 off
Re-order tone - I	480+620	0.3 on 0.2 off
Re-order tone - II (8)	480+620	0.2 on 0.3 off
Waiting tone -	440	0.3 on 10.0 off
Tunisia		
Busy tone -	425	0.25 on 0.25 off
Congestion tone -	425	0.167 on 0.167 off
Dial tone -	425	continuous
Pay tone -	12000	0.125 on
Ringling tone -	425	1.20 on 4.65 off
Special information tone -	900/1400/1800	(3x0.33 on 2x0.03 off) 1.0 off
Call waiting tone -	425	0.2 on 0.6 off
Turkey		
Busy tone -	450	0.5 on 0.5 off
Confirmation tone -	450	0.04 on 0.04 off
Congestion tone -	450	3x(0.2 on 0.2 off) 0.6 on 0.2 off
Dial tone -	450	continuous
Special dial tone -	450	1.0 on 0.25 off
Howler tone -	1400/2060/2460/2600	0.1 on 0.1 off
Number unobtainable tone -	450	0.2 on 0.2 off
Ringling tone -	450	2.0 on 4.0 off
Special information tone -	950/1400/1800	3x0.3 on 1.0 off
Warning tone - operator intervening	450	0.2 on 0.2 off 0.6 on 0.2 off
Waiting tone - I	350+450	0.5 on 0.5 off
Waiting tone - II	450	0.5 on 2.5 off
Call waiting tone -	450	0.2 on 0.6 off 0.2 on 8.0 off
Turkmenistan		
Busy tone -	425	0.4 on 0.4 off
Congestion tone -	425	0.4 on 0.4 off
Dial tone -	425	continuous
Second dial tone -	425	continuous
Number unobtainable tone -	425	0.8 on 4.0 off
Ringling tone -	25	0.4 on 4.0 off
Route tone -	25	0.4 on 0.4 off
Turks and Caicos Islands		
Busy tone -	480+620	0.5 on 0.5 off
Congestion tone -	480+620	0.25 on 0.25 off
Dial tone -	350+440	continuous
Recall dial tone -	350+440	3x(0.1 on 0.1 off) + continuous
Number unobtainable tone -	480+620	0.25 on 0.25 off
Payphone recognition tone -	1600/1143	0.2 on 0.2 off 0.2 on 2.0 off
Ringling tone -	440+480	2.0 on 4.0 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Warning tone - operator intervening	450	0.2 on 0.2 off 0.65 on 0.2 off
Waiting tone -	440	1x(0.5 on 10.0 off 0.5 on)
Tuvalu		
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	2.5 on (every 10.0 sec.)
Dial tone -	425	continuous
Ringling tone -	425	1.0 on 0.5 off 1.0 on 10.0 off
Call waiting tone -	425	0.3 on (every 10.0 sec.)
Uganda (Republic of)		
Busy tone - I	425	0.5 on 0.5 off
Busy tone - II	400	0.4 on 0.2 off
Congestion tone -	425	0.25 on 0.25 off
Dial tone -	425	continuous
Special dial tone -	900/1400/1800	3x0.33 on 1.0 off
Howler tone -	1400	continuous
Number unobtainable tone -	900/1400/1800	3x0.33 on 1.00 off
Offering tone, trunk -	425	0.1 on 4.9 off
Ringling tone - I	425	1.0 on 4.0 off
Ringling tone - II	425//440	0.4 on 0.2 off 0.4 on 2.0 off
Ringling tone - III	450	0.4 on 0.2 off

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Route tone -	425//440	0.5 on 0.5 off
Call waiting tone - I	425	0.15 on 0.15 off 0.15 on 8.0 off
Call waiting tone - II	450//440	0.5 on 0.5 off + continuous
United Arab Emirates		
Busy tone -	400//425	0.375 on 0.375 off
Congestion tone -	400//425	0.4 on 0.35 off 0.225 on 0.525 off
Dial tone -	350+440	continuous
Number unobtainable tone -	400//425	continuous
Ringtone -	400+450//425	0.4 on 0.2 off 0.4 on 2.0 off
United Kingdom of Great Britain and Northern Ireland		
Busy tone -	400	0.375 on 0.375 off
Congestion tone -	400	0.4 on 0.35 off 0.225 on 0.525 off
Dial tone -	50//350+440	continuous
Number unobtainable tone -	400	continuous
Pay tone -	400	0.125 on 0.125 off
Payphone recognition tone -	1200/800	0.2 on 0.2 off 0.2 on 2.0 off
Ringtone -	400+450//400x25//400x16 2/3	0.4 on 0.2 off 0.4 on 2.0 off
United States of America		
Busy tone -	600x120//600x133//600x140//600x160//480+620	0.5 on 0.5 off
Confirmation tone -	350+440	3x(0.1 on 0.1 off)
Dial tone -	600x120//600x133//600x140//600x160//350+440	continuous
Recall dial tone -	350+440	3x(0.1 on 0.1 off) + continuous
Intrusion tone -	600x120//600x133//600x140//600x160//480+620	0.5 on 0.5 off
Number unobtainable tone -	200//400	0.5 on 6.0 off
Permanent signal tone -	480//400//500	continuous
Record tone -	440	0.5 on 5.0 off
Ringtone -	420x40//500x40//440+480	2.0 on 4.0 off
Re-order tone -	600x120//600x133//600x140//600x160//480+620	0.3 on 0.2 off
Warning tone - message (4)	1400	0.5 on
Call waiting tone -	440	2x(0.3 on 10.0 off)
Uruguay (Eastern Republic of)		
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.25 on 0.25 off
Dial tone - I	425	continuous
Dial tone - II	450	0.7 on 0.8 off 0.2 on 0.3 off
Negative indication tone -	425	0.5 on 0.5 off
Positive indication tone -	425	2x(0.1 on 0.2 off) 0.1 on 1.3 off
Ringtone -	425	1.0 on 4.0 off
Special information tone -	950/1400/1800	3x0.333 on 1.0 off
Warning tone - operator intervening	425	0.15 on 0.25 off 0.15 on 1.45 off
Waiting tone -	425	0.2 on 0.2 off 0.2 on 4.4 off
Vanuatu (Republic of)		
Acceptance tone -	950	continuous
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.5 on 0.5 off
Dial tone -	425	continuous
Special dial tone -	425	0.4 on 0.04 off
Howler tone -	3000	continuous
Offering tone, trunk -	425	0.3 on 10.0 off
Ringtone -	425	1.0 on 4.0 off
Route tone -	425	0.05 on 0.05 off
Special information tone -	950/1400/1800	3x0.33 on 2x0.03 off 1.0 off
Call waiting tone -	425	0.3 on 10.0 off
Venezuela (Bolivarian Republic of)		
Busy tone -	425	0.5 on 0.5 off
Confirmation tone -	425	0.1 on 0.1 off 0.3 on 0.1 off
Congestion tone -	425	0.25 on 0.25 off
Dial tone -	425	continuous
Howler tone -	1440	0.5 on 0.5 off
Pay tone -	800	1.0 on 15.0 off
Ringtone -	425	1.0 on 4.0 off
Special information tone -	950/1440/1800	3x0.33 on 1.0 off

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Call waiting tone -	400/450	0.3 on 6.0 off
Caller waiting tone -	425	1.0 on 4.0 off
Wallis and Futuna (Territoire français d'outre-mer)		
Busy tone -	440	0.5 on 0.5 off
Dial tone -	440//330	continuous
Pay tone -	12000	0.1 on
Ringtone -	440	1.5 on 3.5 off
Route tone -	440	0.05 on 0.05 off
Special information tone -	950/1400/1800	(3x0.3 on 2x0.03 off) 1.0 off
Yemen (Republic of)		
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.25 on 0.25 off
Dial tone -	102	continuous
Ringtone -	425	1.0 on 4.0 off
Zambia (Republic of)		
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.25 on 0.25 off
Dial tone -	425	continuous
Pay tone -	800	2.0 on
Payphone recognition tone -	1600	0.1 on
Ringtone -	425	1.0 on 4.0 off
Special information tone -	950/1400/1800	3x0.333 on 1.0 off
Call waiting tone -	425	0.1 on 4.9 off
Zimbabwe (Republic of)		
Busy tone -	400	0.375 on 0.375 off
Congestion tone -	425	0.167 on 0.167 off
Dial tone -	425	continuous
Pay tone -	1500+1000	0.2 on 0.2 off 0.2 on 2.0 off
Ringtone -	450	1.0 on 4.0 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Call waiting tone -	523//659	1.5 on 1.5 off

- 1 For PLMN/GSM.
- 2 This tone is used within the supplementary service 'Call Waiting' the duration is 30 seconds.
- 3 This tone is also used in private branch exchanges (PABX).
- 4 This tone bursts every 15 seconds.
- 5 Analogue exchanges.
- 6 Two bursts, ten seconds apart.
- 7 Special dial tone is used when call transfer is active.
- 8 Trunk.
- 9 0.1 second of call waiting indication superimposed on speech every 2 to 5 seconds.
- 10 Shifting frequency every 0.4 seconds.
- 11 In a certain service, music can be played in parallel to the ringing tone.

Notification Form for Change of tones used in national networks

Country/Organisation:

Contact-person, Name:

Tel:

Fax:

Email:

<i>Tone</i>	<i>Frequency (Hz)</i>	<i>Cadence (seconds)</i>
Dial tone		
Ringing tone		
Busy tone		
Congestion tone		
Special information tone		
Call waiting tone		
Pay tone		

<i>Other new or changed tones</i>		

Dial Tone: A tone advising that the exchange is ready to receive call information and inviting the user to start sending call information.

Ringing Tone: A tone advising the caller that a connection has been made and that a calling signal is being applied to a telephone number or service point.

Busy Tone: A tone advising the caller that the telephone number is busy.

Congestion Tone: A tone advising the caller that the groups of lines or switching equipment necessary for the setting-up of the required call or for the use of a specific service are temporarily engaged.

Special Information Tone: A tone advising the caller that the called number cannot be reached for reasons other than "subscriber busy" or "congestion".

The tone may also be used in conjunction with recorded announcements to signify that what the caller is about to hear is a recording. It should always be used to precede all call failure announcements.

Call Waiting Tone: A tone advising the user of the call waiting supplementary service who is engaged on a call that someone is attempting to call his number.

Pay Tone: A tone advising users of a payphone that a payment is required.

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	