Annex to ITU Operational Bulletin No. 781 – 1.II.2003



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 FEBRUARY 2003)

Geneva, 2003

### Various tones used in national networks

## Note by TSB

1. The List of various tones used in national networks has now been updated by replies received from various Administrations to TSB Circular 108 of 19 June 2002.

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 home page (www.itu.int/itu-t/bulletin/), and can be consulted by subscribers by remote access.

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)	405	
Busy tone - Ringing tone -	425 425	0.5 on 0.5 off 1.5 on 3.5 off
• •	425	1.5 01 5.5 01
Andorra (Principality of)	405	0.0 0.0 #
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	
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)
Ū	-00	
Argentine Republic	405	0.0 am 0.0 aff
Busy tone -	425	0.3 on 0.2 off
Congestion tone -	425	0.3 on 0.4 off
Dial tone -	425	
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
Ringing tone -	425	1.0 on 4.0 off
	740	
	950/1400/1900	3v0 33 on 1 0 off
Special information tone - Call waiting tone -	950/1400/1800 425	3x0.33 on 1.0 off 0.2 on 0.2 off 0.2 on 4.4 off

Ascension

Busy tone -Congestion tone -Dial tone -Number unobtainable tone -Ringing tone -Call waiting tone -**Australia** Busy tone -Congestion tone -Conference tone -Dial tone -

Facilities tone -Intrusion tone -Number unobtainable tone -Payphone recognition tone -Record tone -Ringing tone -

Warning tone - operator intervening Call waiting tone -

#### Austria

Busy tone - I Busy tone - II (5) Congestion tone - I Congestion tone - II (5) Dial tone -Recall dial tone -Special dial tone -Negative indication tone -Number unobtainable tone -Pay tone -Positive indication tone -Payphone recognition tone -Ringing tone -Special information tone -Warning tone - operator intervening Waiting tone -Bahamas (Commonwealth of the) Busy tone -Congestion tone -Ringing tone Bahrain (Kingdom of) Acceptance tone -Busy tone -Congestion tone -Dial tone -Number unobtainable tone -Pay tone -Ringing tone -Route tone -Call waiting tone -Bangladesh (People's Republic of) Busy tone -Congestion tone -Dial tone -Special dial tone -. Howler tone -Pay tone Ringing tone -Warning tone - operator intervening Call waiting tone -Barbados Rusy tone -

400 400 350+450 400 400+450 1400 425 425 425//525 425x25//400+425+450 425 425//525 425 1209/852 1400 400x25//400+425+450// 400+450 900 425 420 450 420 450 420//450 420 380+420 380+420 950/1400/1800 852 380+420 1633/1336 420//450 950/1400/1800 420//450 420 480//620/120 480//620/120 480//620 425 425 425 330x440 425 816/1209 425 425 425 450 450 450 450 3000 800/1900 450 450 450 480+620 480+620 350+440 440+480 950/1400/1800

FREQUENCY in Hz

0.384 on 0.384 off continuous continuous continuous 0.384 on 0.192 off 0.384 on 2.016 off 1x(0.384 on) 0.375 on 0.375 off 0.375 on 0.375 off 1.0 on 15.0 off 0.36 on 15.0 off continuous continuous continuous 2.5 on 0.5 off 0.2 on 0.2 off 0.2 on 2.0 off 0.425 on 15.0 off 0.4 on 0.2 off 0.4 on 2.0 off 0.5 on 0.2 on 0.2 off 0.2 on 4.4 off 0.4 on 0.4 off 0.3 on 0.3 off 0.2 on 0.2 off 0.3 on 0.3 off continuous continuous continuous 0.4 on 0.4 off 3x0.33 on 1.0 off 1.5 on 1.0 on 5.0 off 0.2 on 0.2 off 0.2 on 2.0 off 1.0 on 5.0 off 3x0.33 on 1.0 off 0.15 on 0.15 off 0.15 on 1.95 off 0.04 on 1.95 off 0.5 on 0.5 off 0.25 on 0.2 off 2.0 on 4.0 off 0.06 on 0.06 off 0.375 on 0.375 off 0.40 on 0.35 off 0.225 on 0.525 off continuous continuous O.125 on 1.5 off 0.4 on 0.2 off 0.4 on 2.0 off 0.06 on 0.06 off 0.2 on 0.6 off 0.2 on 5.0 off 0.2 on 0.3 off 0.7 on 0.8 off 0.25 on 0.25 off continuous 0.4 on 0.4 off continuous continuous 1.0 on 4.0 off 0.20 on 0.02 off 0.20 on 1.40 off 3 0 on 10 0 off 0.5 on 0.5 off 0.25 on 0.25 off continuous 2.0 on 4.0 off 3x0.33 on 2x(0.3 on 10.0 off)

CADENCE in seconds

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
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 - Call waiting tone -	900/1400/1800 1400	3x0.33 on 1.0 off 0.175 on 0.175 off 0.175 on 3.50 off
-	1400	0.173 01 0.173 01 0.173 01 0.175 01 3.50 01
Benin (Republic of)	440//405	05 05
Busy tone - Congestion tone -	440//425	0.5 on 0.5 off announcement
•	440//405	
Dial tone -	440//425	continuous
Special dial tone - Pay tone -	330+440	continuous announcement
•	440//425	
Ringing tone - Route tone -	440//425	1.7 on 3.3 off 0.05 on 0.05 off
Special information tone -	440//425	announcement
•	440	
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 - Special information tone -	440+480 913/1428/1776	2.0 on 4.0 off 0.27 on 0.38 on 0.38 on
Call waiting tone - (6)	440	0.27 01 0.30 01 0.30 01
	110	
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 - Second dial tone -	425 425	0.2 on 0.3 off 0.7 on 0.8 off 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 - Line lock-out tone -	425 425	0.16 on 2.0 off 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
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 - Number unobtainable tone -	425 425	0.1 on 0.1 off 0.1 on 2.0 off 0.75 on 0.25 off 0.25 on 0.25 off

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
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 - I	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	1.5 on 5.12 off 1.5 on 5.12 off 1.5 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
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
Ringing tone - I	425	1.0 on 4.0 off
Ringing tone - II	440	1.7 on 3.3 off
Ringing tone - III	480	2.0 on 4.0 off
Route tone - Special information tone -	425 900/1380/1860	0.05 on 0.05 off 0.35 on 0.30 on 0.35 on 1.0 off
•	555, 1550, 1660	
Burundi (Republic of)	105	
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.25 on 0.25 off
		continuous
Dial tone -	425	
	425 425 950/1400/1800	1.7 on 3.3 off 3x0.33 on 1.0 off

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
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
Ringing 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 - Ringing tone -	12000 440	continuous 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
	440+480	2.0 on 4.0 off
Ringing tone - Call waiting tone -	440+480 440	2.0 on 4.0 off 2x(0.3 on 10.0 off)
-		27(0.0 011 10.0 011)
Cayman Islands	125	0.5 ap 0.5 aff
Busy tone -	425	0.5 on 0.5 off
Congestion tone - Dial tone -	425 425	0.25 on 0.25 off continuous
Number unobtainable tone -	425	0.25 on 0.25 off
Ringing 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
Ringing 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 -	440 330+400	continuous
Second dial tone - Ringing tone -	440	continuous 1.7 on 3.3 off
Special information tone -	950/1400/1800	(3x0.33 on 2x0.03 off) 1.0 off
Channel Islands: Guernsey		
•	400	0.275 op 0.275 off
Busy tone - Congestion tone -	400 400	0.375 on 0.375 off 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
Ringing tone -	400+450	0.4 on 0.2 off
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 o
Dial tone -	350+450	continuous
Number unobtainable tone -	400	continuous
Pay tone -	400 400+450	0.125 on 0.125 off 0.4 on 0.2 off 0.4 on 2.0 off
Ringing tone - Waiting tone -	400+450 400	0.4 on 0.2 of 0.4 on 2.0 of 0.1 on 2.5 off 0.1 on
Chile		
Busy tone -	400	0.5 on 0.5 off
Congestion tone -	400 400	0.5 on 0.5 off 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
Ringing tone -	400	1.0 on 3.0 off
	950/1400/1800	3x0.333 on 1.0 off
Special information tone - Warning tone - end of period	330/1400/1000	

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COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Warning tone - operator intervening Waiting tone -	1400 900+1300	0.5 on 15.0 off 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
Ringing tone - Special information tone - I	450 450	1.0 on 4.0 off 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 425	0.15 on 1.0 on 4.5 off
Ringing tone - Special information tone -	425 950/1400/1800	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
Ringing 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 -	400 400	0.5 on 0.5 off
Congestion tone - Dial tone -	400	0.25 on 0.25 off continuous
Ringing 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
Ringing tone - Warning tone - operator intervening	450 425	1.2 on 4.9 off 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
Dial tone -	425	continuous
Second dial tone -	440+330	continuous
Line lock-out tone -	425	0.4 on 0.04 off
Pay tone -	12000	
Ringing tone -	425	1.7 on 3.3 off
Special information tone -	425	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 - Ringing tone -	1206/850 425	4x(0.2 on 0.2 off 0.2 on 0.2 off) 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
Ringing tone - I	425	1.0 on 4.0 off 2.0 on 4.0 off
Ringing tone - II	440+480//440+620//480+620	

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Ringing tone - III	420x40	1.0 on 2.0 off
Ringing 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 Call waiting tone - I	425 425	0.5 on 0.2 off 0.2 on 0.6 off 0.2 on
Call waiting tone - II	425	0.5 on 0.5 off
•	400	
Cyprus (Republic of)	425	
Busy tone - Congestion tone -	425 425	0.5 on 0.5 off 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)
Ringing tone -	425	1.5 on 3.0 off
Special information tone -	950/1400/1800 1400	3x0.33 on 1.0 off
Warning tone - operator intervening Call waiting tone -	425	0.5 on 14.0 off 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
Ringing 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 - Caller waiting tone -	425 425	0.33 on 9.0 off 1.00 on 0.17 off 0.33 on 3.50 off
5	420	
Denmark	405	
Busy tone - I Busy tone - II (1)	425 425	0.25 on 0.25 off 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
Ringing 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 0.2 on 0.2 on 0.6 off 0.2 on 3.0 off 0.2 on 0.6 off 0.2 on
Call waiting tone - II (1)	425	
Diego Garcia	400/000	late must diet 00 in m
Busy tone - Dial tone -	480/620	Interrupted at 60 ipm continuous
Number unobtainable tone -	350/440 480/620	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	
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		<i></i>
Busy tone - I	400	0.8 on 0.8 off
Busy tone - II Congestion tone - I	400 400	0.375 on 0.375 off 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 - Call waiting tone -	425 425	1.2 on 4.65 off 0.2 on 0.6 off
-	420	0.2 011 0.0 011
Egypt (Arab Republic of)	40550	10 10
Busy tone -	425x50	1.0 on 4.0 off
	2	
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COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
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 -	425 425	0.20 on 0.20 off 0.50 on 0.20 off 0.167 on 0.167 off 0.500 on 0.167 off
Line lock-out tone - 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)		
	425	0.3 on 0.3 off
Busy tone - 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
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
Ringing tone - Special information tone -	425 950/1400/1800	1.0 on 4.0 off 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
<b>v</b>		
Falkland Islands (Malvinas)	400	0.375 on 0.375 off
Busy tone -		
Congestion tone -	400	0.4 on 0.35 off 0.255 on 0.525 off
Dial tone -	350+450	continuous
Number unobtainable tone -	400 400+450	continuous 0.4 on 0.2 off
Ringing tone - Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Warning tone - operator intervening	1000	0.1 on 0.1 off
<b>°</b>	1000	
Faroe Islands		A A - A - A - K
Busy tone -	425	0.25 on 0.25 off
Congestion tone -	425	0.25 on 0.25 off
Dial tone - Number unobtainable tone -	425 950/1400/1800	continuous 3x0.33 on 1.0 off
Ringing tone -	425	1.0 on 4.0 off
0.0	720	1.0 0.1 +.0 0.1
Fiji (Republic of)		
Acceptance tone -	425	continuous
Busy tone -	425	0.75 on 0.75 off
Congestion tone -	425	037 on 0.37 off 0.37 on 0.37 off
Dial tone - Second dial tone -	400+450 425	continuous continuous
Special dial tone -	425 400+450	0.40 on 0.04 off
		0.2 on 0.6 off 0.2 on 4.0 off
Line lock-out tone -	425	
Line lock-out tone - Number unobtainable tone -	425 400	2.5 on 0.5 off
Number unobtainable tone -	400	2.5 on 0.5 off
Number unobtainable tone - Offering tone, trunk -	400 425	2.5 on 0.5 off 0.17 on 0.17 off 0.50 on 0.17 off
Number unobtainable tone - Offering tone, trunk - Refusal tone - Ringing tone - Special ringing tone -	400 425 425 425x25 425x25 425x25	2.5 on 0.5 off 0.17 on 0.17 off 0.50 on 0.17 off 0.24 on 0.76 off 0.4 on 0.2 off 0.4 on 2.0 off 1.0 on 5.0 off 1.0 on 5.0 off
Number unobtainable tone - Offering tone, trunk - Refusal tone - Ringing tone - Special ringing tone - Special information tone -	400 425 425 425x25 425x25 425x25 925/1400/1800	2.5 on 0.5 off 0.17 on 0.17 off 0.50 on 0.17 off 0.24 on 0.76 off 0.4 on 0.2 off 0.4 on 2.0 off 1.0 on 5.0 off 1.0 on 5.0 off 3x0.38 on 1.00 off
Number unobtainable tone - Offering tone, trunk - Refusal tone - Ringing tone - Special ringing tone -	400 425 425 425x25 425x25 425x25	2.5 on 0.5 off 0.17 on 0.17 off 0.50 on 0.17 off 0.24 on 0.76 off 0.4 on 0.2 off 0.4 on 2.0 off 1.0 on 5.0 off 1.0 on 5.0 off
Number unobtainable tone - Offering tone, trunk - Refusal tone - Ringing tone - Special ringing tone - Special information tone - Warning tone -	400 425 425 425x25 425x25 425x25 925/1400/1800	2.5 on 0.5 off 0.17 on 0.17 off 0.50 on 0.17 off 0.24 on 0.76 off 0.4 on 0.2 off 0.4 on 2.0 off 1.0 on 5.0 off 1.0 on 5.0 off 3x0.38 on 1.00 off
Number unobtainable tone - Offering tone, trunk - Refusal tone - Ringing tone - Special ringing tone - Special information tone - Warning tone -	400 425 425 425x25 425x25 425x25 925/1400/1800	2.5 on 0.5 off 0.17 on 0.17 off 0.50 on 0.17 off 0.24 on 0.76 off 0.4 on 0.2 off 0.4 on 2.0 off 1.0 on 5.0 off 1.0 on 5.0 off 3x0.38 on 1.00 off
Number unobtainable tone - Offering tone, trunk - Refusal tone - Ringing tone - Special ringing tone - Special information tone - Warning tone - <b>Finland</b>	400 425 425 425x25 425x25 925/1400/1800 1400	2.5 on 0.5 off 0.17 on 0.17 off 0.50 on 0.17 off 0.24 on 0.76 off 0.4 on 0.2 off 0.4 on 2.0 off 1.0 on 5.0 off 1.0 on 5.0 off 3x0.38 on 1.00 off 0.5 on 12.0 off
Number unobtainable tone - Offering tone, trunk - Refusal tone - Ringing tone - Special ringing tone - Special information tone - Warning tone - <b>Finland</b> Busy tone -	400 425 425 425x25 425x25 925/1400/1800 1400 425 425 425	2.5 on 0.5 off 0.17 on 0.17 off 0.50 on 0.17 off 0.24 on 0.76 off 0.4 on 0.2 off 0.4 on 2.0 off 1.0 on 5.0 off 1.0 on 5.0 off 3x0.38 on 1.00 off 0.5 on 12.0 off 0.3 on 0.3 off 0.2 on 0.2 off continuous
Number unobtainable tone - Offering tone, trunk - Refusal tone - Ringing tone - Special ringing tone - Special information tone - Warning tone - <b>Finland</b> Busy tone - Congestion tone -	400 425 425 425x25 425x25 925/1400/1800 1400 425 425	2.5 on 0.5 off 0.17 on 0.17 off 0.50 on 0.17 off 0.24 on 0.76 off 0.4 on 0.2 off 0.4 on 2.0 off 1.0 on 5.0 off 1.0 on 5.0 off 3x0.38 on 1.00 off 0.5 on 12.0 off 0.3 on 0.3 off 0.2 on 0.2 off

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Queue tone - Ringing tone - Special information tone - Warning tone - operator intervening	950/950/1400 425 950/1400/1800 425	0.65 on 0.325 off 0.325 on 1.3 on 2.6 off 1.0 on 4.0 off 3x0.333 on 1.0 off 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 - Dial tone - Ringing tone - Special information tone -	440 440 440 950/1400/1800	0.5 on 0.5 off continuous 1.5 on 3.5 off 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 - Dial tone - Ringing tone - Special information tone - Call waiting tone -	440 440 440 950/1400/1800 440	0.5 on 0.5 off continuous 1.5 on 3.5 off 3x(0.3 on 0.03 off) 1.0 off 0.3 on 10.0 off
French Polynesia (Territoire français		
d'outre-mer) Acceptance tone - Busy tone - Congestion tone - Dial tone - Second dial tone - Howler tone - Pay tone - Ringing tone -	440 440 440 440+330 3000 440 440	1.7 on 3.3 off 0.5 on 0.5 off 0.5 on 0.5 off continuous continuous continuous continuous 1.7 on 3.3 off
Special information tone - Call waiting tone -	950/1400/1800 440	3x0.33 on 1.0 off 1.7 on 3.3 off
Gabonese Republic		
Busy tone - Congestion tone - Dial tone - Ringing tone - Special information tone - Call waiting tone -	440 440 440 440 950/1400/1800 1800	0.5 on 0.5 off 0.5 on 0.5 off continuous 1.7 on 3.3 off 0.30 on 0.33 off 0.5 on 2.5 off
Gambia (Republic of the)		
Busy tone - Congestion tone - Dial tone - Ringing tone - Special information tone - Call waiting tone -	425 425 425 425 1400 950	0.5 on 0.5 off 0.5 on 0.5 off continuous 1.0 on 4.0 off 0.330 on 0.030 off 0.330 on 0.030 off
Georgia		
Busy tone - Congestion tone - Dial tone - Ringing tone - Call waiting tone -	425 425 425 25 425	1.0 on 3.0 off 1.0 on 1.0 off continuous 1.0 on 4.0 off 0.125 on
Germany (Federal Republic of)		
Busy tone - Congestion tone - Dial tone - Special dial tone - Payphone recognition tone - Ringing tone - Special information tone - Warning tone - operator intervening Call waiting tone - (2)	425 425 425 425+400 1633/1336 425 900/1400/1800 425 425	0.48 on 0.48 off 0.24 on 0.24 off continuous continuous 5x(0.2 on 0.2 off 0.2 on 2.0 off) 1.0 on 4.0 off 3x0.33 on 1.0 off 0.24 on 0.24 off 0.24 on 1.28 off 0.2 on 0.2 off 0.2 on 5.0 off
Ghana		
Busy tone - Congestion tone - Dial tone - Holding tone - Number unobtainable tone - Ringing tone - Waiting tone -	400 400 400 400 400 400 400	0.25 on 0.25 off 0.5 on 0.5 off continuous 0.5 on 0.5 off 0.5 on 0.25 off 0.075 on 0.1 off 0.075 on 0.1 off 0.075 on 0.4 off 1.0 on 4.0 off 0.5 on 0.3 on 0.2 off 0.3 on 0.2 off 3.0 off
Gibraltar		
Busy tone - Congestion tone -	400 400	0.375 on 0.375 off 0.4 on 0.35 off 0.225 on 0.525 off

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Dial tone -	350+400	continuous
Number unobtainable tone -	400	continuous
Ringing 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
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)	445//425	0.25 cm 0.25 cff
Busy tone -	445//425 445//425	0.25 on 0.25 off 0.25 on 0.25 off
Congestion tone - Dial tone -	445//425	continuous
Second dial tone -	445//425	continuous
Number unobtainable tone - I	950/1400/1800 425	3x0.33 on 1.0 off
Number unobtainable tone - II	425 950/1400/1800	0.25 on 0.25 off 3x0.22 on 1.0 off
Pay tone - Ringing tone -	950/1400/1800 445//425	3x0.22 on 1.0 oπ 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
londuras (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
longkong, 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	
Ringing tone -	440+480	0.4 on 0.2 off 0.4 on 3.0 off
lungary (Republic of)	425	0.2 op 0.2 off
Busy tone -	425	0.3 on 0.3 off
Congestion tone -	425	0.3 on 0.3 off
Dial tone -	425 425+450	continuous
Second dial tone - Special dial tone -	425+450 350+375+400	continuous continuous
Special dial tone - Negative indication tone -	300+375+400 300+425	0.2 on 0.2 off 0.2 on 0.2 off 0.2 on 0.2 off +
-	405	announcement
Offering tone, trunk -	425	0.3 on 0.3 off 0.3 on 1.5 off (2 or 5)(0.15 on 0.15 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
	425	1.25 on 3.75 off
Ringing tone -	050/1400/4000	
Special information tone -	950/1400/1800 425	3x0.33 on 1.0 off 0.3 on 0.3 off 0.3 on 1.5 off
Ringing tone - Special information tone - Warning tone - Call waiting tone -	950/1400/1800 425 425	0.3 on 0.3 off 0.3 on 1.5 off 0.04 on 1.96 off

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
celand		
Busy tone -	425	0.25 on 0.25 off
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)
ndia (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 20 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
ndonesia (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
ran (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
raq (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
reland		
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
srael (State of)	100	0.5 0.5
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
	1209/852	5x(0.2 on 0.2 off 0.2 on 2.0 off)
Payphone recognition tone -		1.0 on 3.0 off
	400	
Payphone recognition tone - Ringing tone -	400 1004	0.01 on 1.0 off
Payphone recognition tone -		
Payphone recognition tone - Ringing tone - Search tone - mobile	1004	0.01 on 1.0 off

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Caller waiting tone -	400	2x(0.1 on 0.1 off) 0.6 on 3.0 off
taly		
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
÷ (, ,	420	
lamaica		
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
lapan		
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.
-		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
Holdina tone -	420x40	0.5 on 8.0 off
Holding tone - Howler tone -		0.5 on 8.0 off continuous
Howler tone -	950	continuous
Howler tone - Intrusion tone -	950 420x40	continuous 0.2 on 0.2 off 0.2 on 1.3 off
Howler tone - Intrusion tone - Number unobtainable tone -	950 420x40 420x40	continuous 0.2 on 0.2 off 0.2 on 1.3 off 0.12 on 0.12 off
Howler tone - Intrusion tone - Number unobtainable tone - Ringing tone -	950 420x40 420x40 420x40 420x40	continuous 0.2 on 0.2 off 0.2 on 1.3 off 0.12 on 0.12 off 1.0 on 4.0 off
Howler tone - Intrusion tone - Number unobtainable tone - Ringing tone - Special information tone -	950 420x40 420x40	continuous 0.2 on 0.2 off 0.2 on 1.3 off 0.12 on 0.12 off
Howler tone - Intrusion tone - Number unobtainable tone - Ringing tone - Special information tone - Call waiting tone -	950 420x40 420x40 420x40 (950/1400/1800)x40	continuous 0.2 on 0.2 off 0.2 on 1.3 off 0.12 on 0.12 off 1.0 on 4.0 off 1.0 on 1.0 off
Howler tone - Intrusion tone - Number unobtainable tone - Ringing tone - Special information tone - Call waiting tone - Kenya (Republic of)	950 420x40 420x40 420x40 (950/1400/1800)x40 420x40	continuous 0.2 on 0.2 off 0.2 on 1.3 off 0.12 on 0.12 off 1.0 on 4.0 off 1.0 on 1.0 off 0.15 on 0.15 off
Howler tone - Intrusion tone - Number unobtainable tone - Ringing tone - Special information tone - Call waiting tone - <b>Kenya (Republic of)</b> Busy tone -	950 420x40 420x40 420x40 (950/1400/1800)x40 420x40 425	continuous 0.2 on 0.2 off 0.2 on 1.3 off 0.12 on 0.12 off 1.0 on 4.0 off 1.0 on 1.0 off 0.15 on 0.15 off 0.2 on 0.6 off 0.2 on 0.6 off
Howler tone - Intrusion tone - Number unobtainable tone - Ringing tone - Special information tone - Call waiting tone - <b>Kenya (Republic of)</b> Busy tone - Congestion tone -	950 420x40 420x40 420x40 (950/1400/1800)x40 420x40 425 425	continuous 0.2 on 0.2 off 0.2 on 1.3 off 0.12 on 0.12 off 1.0 on 4.0 off 1.0 on 1.0 off 0.15 on 0.15 off 0.2 on 0.6 off 0.2 on 0.6 off 0.2 on 0.6 off
Howler tone - Intrusion tone - Number unobtainable tone - Ringing tone - Special information tone - Call waiting tone - <b>Kenya (Republic of)</b> Busy tone - Congestion tone - Dial tone -	950 420x40 420x40 420x40 (950/1400/1800)x40 420x40 425 425 425 425	continuous 0.2 on 0.2 off 0.2 on 1.3 off 0.12 on 0.12 off 1.0 on 4.0 off 1.0 on 1.0 off 0.15 on 0.15 off 0.2 on 0.6 off 0.2 on 0.6 off 0.2 on 0.6 off continuous
Howler tone - Intrusion tone - Number unobtainable tone - Ringing tone - Special information tone - Call waiting tone - <b>Kenya (Republic of)</b> Busy tone - Congestion tone - Dial tone - Pay tone - I	950 420x40 420x40 420x40 (950/1400/1800)x40 420x40 425 425 425 425 425 941	continuous 0.2 on 0.2 off 0.2 on 1.3 off 0.12 on 0.12 off 1.0 on 4.0 off 1.0 on 1.0 off 0.15 on 0.15 off 0.2 on 0.6 off 0.2 on 0.6 off 0.2 on 0.6 off continuous 0.2 on 0.2 off
Howler tone - Intrusion tone - Number unobtainable tone - Ringing tone - Special information tone - Call waiting tone - <b>Kenya (Republic of)</b> Busy tone - Congestion tone - Dial tone - Pay tone - I Pay tone - II	950 420x40 420x40 420x40 (950/1400/1800)x40 420x40 425 425 425 425 941 800/1600	continuous 0.2 on 0.2 off 0.2 on 1.3 off 0.12 on 0.12 off 1.0 on 4.0 off 1.0 on 1.0 off 0.15 on 0.15 off 0.2 on 0.6 off 0.2 on 0.6 off 0.2 on 0.6 off continuous 0.2 on 0.2 off 0.08 on 0.08 off
Howler tone - Intrusion tone - Number unobtainable tone - Ringing tone - Special information tone - Call waiting tone - <b>Kenya (Republic of)</b> Busy tone - Congestion tone - Dial tone - Pay tone - I Pay tone - II Payphone recognition tone -	950 420x40 420x40 420x40 (950/1400/1800)x40 420x40 425 425 425 425 941 800/1600 1633	continuous 0.2 on 0.2 off 0.2 on 1.3 off 0.12 on 0.12 off 1.0 on 4.0 off 1.0 on 1.0 off 0.15 on 0.15 off 0.2 on 0.6 off 0.2 on 0.6 off 0.2 on 0.6 off continuous 0.2 on 0.2 off 0.08 on 0.08 off 0.08 on 1.5 off
Howler tone - Intrusion tone - Number unobtainable tone - Ringing tone - Special information tone - Call waiting tone - <b>Kenya (Republic of)</b> Busy tone - Congestion tone - Dial tone - Pay tone - I Pay tone - I Pay tone - II Payphone recognition tone - Ringing tone -	950 420x40 420x40 420x40 (950/1400/1800)x40 420x40 425 425 425 425 941 800/1600 1633 425	continuous 0.2 on 0.2 off 0.2 on 1.3 off 0.12 on 0.12 off 1.0 on 4.0 off 1.0 on 1.0 off 0.15 on 0.15 off 0.2 on 0.6 off 0.2 on 0.6 off 0.2 on 0.6 off continuous 0.2 on 0.2 off 0.08 on 0.08 off 0.08 on 1.5 off 0.67 on 3.0 off 1.5 on 5.0 off
Howler tone - Intrusion tone - Number unobtainable tone - Ringing tone - Special information tone - Call waiting tone - <b>Kenya (Republic of)</b> Busy tone - Congestion tone - Dial tone - Pay tone - I Pay tone - II Payphone recognition tone - Ringing tone - Special information tone -	950 420x40 420x40 420x40 (950/1400/1800)x40 420x40 425 425 425 941 800/1600 1633 425 900/1400/1800	continuous 0.2 on 0.2 off 0.2 on 1.3 off 0.12 on 0.12 off 1.0 on 4.0 off 1.0 on 1.0 off 0.15 on 0.15 off 0.2 on 0.6 off 0.2 on 0.6 off 0.2 on 0.6 off continuous 0.2 on 0.2 off 0.08 on 0.08 off 0.08 on 1.5 off 0.67 on 3.0 off 1.5 on 5.0 off 3x0.75 on 1.25 off
Howler tone - Intrusion tone - Number unobtainable tone - Ringing tone - Special information tone - Call waiting tone - <b>Kenya (Republic of)</b> Busy tone - Congestion tone - Dial tone - Pay tone - I Pay tone - I Pay tone - II Payphone recognition tone - Ringing tone - Special information tone - Warning tone - operator intervening	950 420x40 420x40 (950/1400/1800)x40 420x40 425 425 425 941 800/1600 1633 425 900/1400/1800 425	continuous 0.2 on 0.2 off 0.2 on 1.3 off 0.12 on 0.12 off 1.0 on 4.0 off 1.0 on 1.0 off 0.15 on 0.15 off 0.2 on 0.6 off 0.2 on 0.6 off 0.2 on 0.6 off continuous 0.2 on 0.2 off 0.08 on 0.2 off 0.08 on 1.5 off 0.67 on 3.0 off 1.5 on 5.0 off 3x0.75 on 1.25 off 0.2 on 0.2 off
Howler tone - Intrusion tone - Number unobtainable tone - Ringing tone - Special information tone - Call waiting tone - <b>Kenya (Republic of)</b> Busy tone - Congestion tone - Dial tone - Pay tone - I Pay tone - I Payphone recognition tone - Ringing tone - Special information tone - Warning tone - operator intervening Call waiting tone -	950 420x40 420x40 420x40 (950/1400/1800)x40 420x40 425 425 425 941 800/1600 1633 425 900/1400/1800	continuous 0.2 on 0.2 off 0.2 on 1.3 off 0.12 on 0.12 off 1.0 on 4.0 off 1.0 on 1.0 off 0.15 on 0.15 off 0.2 on 0.6 off 0.2 on 0.6 off 0.2 on 0.6 off continuous 0.2 on 0.2 off 0.08 on 0.08 off 0.08 on 1.5 off 0.67 on 3.0 off 1.5 on 5.0 off 3x0.75 on 1.25 off
Howler tone - Intrusion tone - Number unobtainable tone - Ringing tone - Special information tone - Call waiting tone - <b>Kenya (Republic of)</b> Busy tone - Congestion tone - Dial tone - Pay tone - I Pay tone - I Pay tone - I Payphone recognition tone - Ringing tone - Special information tone - Warning tone - operator intervening Call waiting tone - <b>Kiribati (Republic of)</b>	950 420x40 420x40 (950/1400/1800)x40 420x40 425 425 425 941 800/1600 1633 425 900/1400/1800 425 425	continuous 0.2 on 0.2 off 0.2 on 1.3 off 0.12 on 0.12 off 1.0 on 4.0 off 1.0 on 1.0 off 0.15 on 0.15 off 0.2 on 0.6 off 0.2 on 0.6 off 0.2 on 0.6 off continuous 0.2 on 0.2 off 0.08 on 0.08 off 0.08 on 1.5 off 0.67 on 3.0 off 1.5 on 5.0 off 3x0.75 on 1.25 off 0.2 on 0.2 off continuous
Howler tone - Intrusion tone - Number unobtainable tone - Ringing tone - Special information tone - Call waiting tone - <b>Kenya (Republic of)</b> Busy tone - Congestion tone - Dial tone - Pay tone - I Pay tone - I Paytone - II Payphone recognition tone - Ringing tone - Special information tone - Warning tone - operator intervening Call waiting tone - <b>Kiribati (Republic of)</b> Busy tone -	950 420x40 420x40 (950/1400/1800)x40 420x40 425 425 425 941 800/1600 1633 425 900/1400/1800 425 425	continuous 0.2 on 0.2 off 0.2 on 1.3 off 0.12 on 0.12 off 1.0 on 4.0 off 1.0 on 1.0 off 0.15 on 0.15 off 0.2 on 0.6 off 0.2 on 0.6 off 0.2 on 0.6 off continuous 0.2 on 0.2 off 0.08 on 0.08 off 0.08 on 1.5 off 0.67 on 3.0 off 1.5 on 5.0 off 3x0.75 on 1.25 off 0.2 on 0.2 off continuous 0.375 on 0.375 off
Howler tone - Intrusion tone - Number unobtainable tone - Ringing tone - Special information tone - Call waiting tone - <b>Kenya (Republic of)</b> Busy tone - Congestion tone - Dial tone - Pay tone - I Pay tone - I Payphone recognition tone - Ringing tone - Special information tone - Warning tone - operator intervening Call waiting tone - <b>Kiribati (Republic of)</b> Busy tone - Congestion tone -	950 420x40 420x40 420x40 (950/1400/1800)x40 420x40 425 425 425 941 800/1600 1633 425 900/1400/1800 425 425 425	continuous 0.2 on 0.2 off 0.2 on 1.3 off 0.12 on 0.12 off 1.0 on 4.0 off 1.0 on 1.0 off 0.15 on 0.15 off 0.2 on 0.6 off 0.2 on 0.6 off 0.2 on 0.6 off continuous 0.2 on 0.2 off 0.08 on 0.08 off 0.08 on 1.5 off 0.67 on 3.0 off 1.5 on 5.0 off 3x0.75 on 1.25 off 0.2 on 0.2 off continuous 0.375 on 0.375 off 0.375 on 0.375 off
Howler tone - Intrusion tone - Number unobtainable tone - Ringing tone - Special information tone - Call waiting tone - <b>Kenya (Republic of)</b> Busy tone - Congestion tone - Dial tone - Pay tone - I Pay tone - I Pay tone - II Payphone recognition tone - Ringing tone - Special information tone - Warning tone - operator intervening Call waiting tone - <b>Kiribati (Republic of)</b> Busy tone - Congestion tone - Dial tone -	950 420x40 420x40 420x40 (950/1400/1800)x40 420x40 425 425 425 941 800/1600 1633 425 900/1400/1800 425 425 425 425	continuous         0.2 on 0.2 off 0.2 on 1.3 off         0.12 on 0.12 off         1.0 on 4.0 off         1.0 on 1.0 off         0.15 on 0.15 off         0.2 on 0.6 off 0.2 on 0.6 off         0.2 on 0.6 off         0.2 on 0.6 off         0.2 on 0.6 off         0.2 on 0.2 off         0.8 on 0.2 off         0.8 on 1.5 off         0.67 on 3.0 off 1.5 on 5.0 off         3x0.75 on 1.25 off         0.2 on 0.2 off         continuous         0.375 on 0.375 off         0.375 on 0.375 off         0.375 on 0.375 off         0.375 of 0.375 off         0.375 off
Howler tone - Intrusion tone - Number unobtainable tone - Ringing tone - Special information tone - Call waiting tone - <b>Kenya (Republic of)</b> Busy tone - Congestion tone - Dial tone - Pay tone - I Pay tone - I Pay tone - I Payphone recognition tone - Ringing tone - Special information tone - Warning tone - operator intervening Call waiting tone - <b>Kiribati (Republic of)</b> Busy tone - Congestion tone - Dial tone - Dial tone - Dial tone - Number unobtainable tone -	950 420x40 420x40 (950/1400/1800)x40 420x40 425 425 425 425 941 800/1600 1633 425 900/1400/1800 425 425 425 425 425 425	continuous 0.2 on 0.2 off 0.2 on 1.3 off 0.12 on 0.12 off 1.0 on 4.0 off 1.0 on 1.0 off 0.15 on 0.15 off 0.2 on 0.6 off 0.2 on 0.6 off 0.2 on 0.6 off continuous 0.2 on 0.2 off 0.08 on 0.08 off 0.08 on 1.5 off 0.67 on 3.0 off 1.5 on 5.0 off 3x0.75 on 1.25 off 0.2 on 0.375 off 0.375 on 0.375 off 0.375 on 0.375 off continuous 2.5 on 0.5 off
Howler tone - Intrusion tone - Number unobtainable tone - Ringing tone - Special information tone - Call waiting tone - <b>Kenya (Republic of)</b> Busy tone - Congestion tone - Dial tone - Pay tone - I Pay tone - I Pay tone - I Pay tone - I Pay tone - Operator intervening Call waiting tone - <b>Kiribati (Republic of)</b> Busy tone - Congestion tone - Dial tone - Number unobtainable tone - Ringing tone - Ringing tone -	950 420x40 420x40 (950/1400/1800)x40 420x40 425 425 425 425 941 800/1600 1633 425 900/1400/1800 425 425 425 425 425 425 425 425 425 425	continuous         0.2 on 0.2 off 0.2 on 1.3 off         0.12 on 0.12 off         1.0 on 4.0 off         1.0 on 1.0 off         0.15 on 0.15 off         0.2 on 0.6 off 0.2 on 0.6 off         0.2 on 0.6 off         0.2 on 0.6 off         0.2 on 0.6 off         0.2 on 0.6 off         0.2 on 0.6 off         0.2 on 0.6 off         0.2 on 0.6 off         0.2 on 0.2 off         0.08 on 0.08 off         0.08 on 1.5 off         0.67 on 3.0 off 1.5 on 5.0 off         3x0.75 on 1.25 off         0.2 on 0.2 off         continuous         0.375 on 0.375 off         0.375 on 0.375 off         0.375 on 0.375 off         0.375 on 0.2 off         continuous         2.5 on 0.5 off         0.4 on 0.2 off 0.4 on 2.0 off
Howler tone - Intrusion tone - Number unobtainable tone - Ringing tone - Special information tone - Call waiting tone - <b>Kenya (Republic of)</b> Busy tone - Congestion tone - Dial tone - Pay tone - I Pay tone - I Pay tone - II Payphone recognition tone - Ringing tone - Special information tone - Warning tone - operator intervening Call waiting tone - <b>Kiribati (Republic of)</b> Busy tone - Congestion tone - Dial tone - Number unobtainable tone - Ringing tone - Call waiting tone -	950 420x40 420x40 (950/1400/1800)x40 420x40 425 425 425 425 941 800/1600 1633 425 900/1400/1800 425 425 425 425 425 425	continuous 0.2 on 0.2 off 0.2 on 1.3 off 0.12 on 0.12 off 1.0 on 4.0 off 1.0 on 1.0 off 0.15 on 0.15 off 0.2 on 0.6 off 0.2 on 0.6 off 0.2 on 0.6 off continuous 0.2 on 0.2 off 0.08 on 0.08 off 0.08 on 1.5 off 0.67 on 3.0 off 1.5 on 5.0 off 3x0.75 on 1.25 off 0.2 on 0.375 off 0.375 on 0.375 off 0.375 on 0.375 off continuous 2.5 on 0.5 off
Howler tone - Intrusion tone - Number unobtainable tone - Ringing tone - Special information tone - Call waiting tone - <b>Kenya (Republic of)</b> Busy tone - Congestion tone - Dial tone - Pay tone - I Pay tone - I Pay tone - II Payphone recognition tone - Ringing tone - Special information tone - Warning tone - operator intervening Call waiting tone - <b>Kiribati (Republic of)</b> Busy tone - Congestion tone - Dial tone - Number unobtainable tone - Ringing tone - Call waiting tone - <b>Korea (Republic of)</b>	950 420x40 420x40 420x40 (950/1400/1800)x40 420x40 425 425 425 941 800/1600 1633 425 900/1400/1800 425 425 425 425 425 425 425 425 425 425	continuous 0.2 on 0.2 off 0.2 on 1.3 off 0.12 on 0.12 off 1.0 on 4.0 off 1.0 on 1.0 off 0.15 on 0.15 off 0.2 on 0.6 off 0.2 on 0.6 off 0.2 on 0.6 off continuous 0.2 on 0.2 off 0.08 on 0.08 off 0.08 on 1.5 off 0.67 on 3.0 off 1.5 on 5.0 off 3x0.75 on 1.25 off 0.2 on 0.2 off continuous 0.375 on 0.375 off 0.375 on 0.375 off 0.375 on 0.375 off 0.375 on 0.375 off 0.4 on 0.2 off 0.4 on 2.0 off 0.1 on 0.2 off 0.1 on 4.7 off
Howler tone - Intrusion tone - Number unobtainable tone - Ringing tone - Special information tone - Call waiting tone - <b>Kenya (Republic of)</b> Busy tone - Congestion tone - Dial tone - Pay tone - I Pay tone - I Pay tone - I Payphone recognition tone - Ringing tone - Special information tone - Warning tone - operator intervening Call waiting tone - <b>Kiribati (Republic of)</b> Busy tone - Dial tone - Number unobtainable tone - Ringing tone - Call waiting tone - Call waiting tone - Kiribati (Republic of) Busy tone - Call waiting tone -	950 420x40 420x40 420x40 (950/1400/1800)x40 420x40 425 425 425 941 800/1600 1633 425 900/1400/1800 425 425 425 425 425 425 425 425 425 425	continuous 0.2 on 0.2 off 0.2 on 1.3 off 0.12 on 0.12 off 1.0 on 4.0 off 1.0 on 1.0 off 0.15 on 0.15 off 0.2 on 0.6 off 0.2 on 0.6 off 0.2 on 0.6 off continuous 0.2 on 0.2 off 0.08 on 1.5 off 0.67 on 3.0 off 1.5 on 5.0 off 3x0.75 on 1.25 off 0.2 on 0.2 off continuous 0.375 on 0.375 off 0.375 on 0.375 off 0.375 on 0.375 off 0.4 on 0.2 off 0.4 on 2.0 off 0.1 on 0.2 off 0.1 on 4.7 off 0.5 on 0.5 off
Howler tone - Intrusion tone - Number unobtainable tone - Ringing tone - Special information tone - Call waiting tone - <b>Kenya (Republic of)</b> Busy tone - Congestion tone - Dial tone - Pay tone - I Pay tone - I Pay tone - I Pay tone - Ringing tone - Special information tone - Warning tone - operator intervening Call waiting tone - <b>Kiribati (Republic of)</b> Busy tone - Congestion tone - Dial tone - Number unobtainable tone - Ringing tone - Call waiting tone - Call waiting tone - Congestion tone - Ringing tone - Call waiting tone - Congestion tone -	950 420x40 420x40 (950/1400/1800)x40 420x40 425 425 425 425 941 800/1600 1633 425 900/1400/1800 425 425 425 425 425 425 425 425 425 425	continuous 0.2 on 0.2 off 0.2 on 1.3 off 0.12 on 0.12 off 1.0 on 4.0 off 1.0 on 1.0 off 0.15 on 0.15 off 0.2 on 0.6 off 0.2 on 0.6 off 0.2 on 0.6 off 0.2 on 0.6 off 0.2 on 0.2 off 0.08 on 0.08 off 0.08 on 0.08 off 0.08 on 1.5 off 0.67 on 3.0 off 1.5 on 5.0 off 3x0.75 on 1.25 off 0.2 on 0.2 off continuous 0.375 on 0.375 off 0.375 on 0.375 off 0.375 on 0.375 off 0.4 on 0.2 off 0.4 on 2.0 off 0.1 on 0.2 off 0.5 on 0.5 off 0.3 on 0.2 off
Howler tone - Intrusion tone - Number unobtainable tone - Ringing tone - Special information tone - Call waiting tone - <b>Kenya (Republic of)</b> Busy tone - Congestion tone - Dial tone - Pay tone - I Pay tone - I Pay tone - I Pay tone - I Pay tone - operator intervening Call waiting tone - Special information tone - Warning tone - operator intervening Call waiting tone - Congestion tone - Dial tone - Number unobtainable tone - Ringing tone - Call waiting tone - Congestion tone - Dial tone - Number unobtainable tone - Ringing tone - Call waiting tone - Call waiting tone - Congestion tone - Dial tone - Congestion tone - Dial tone - Dial tone - Dial tone -	950 420x40 420x40 (950/1400/1800)x40 420x40 425 425 425 425 941 800/1600 1633 425 900/1400/1800 425 425 425 425 425 425 425 425	continuous         0.2 on 0.2 off 0.2 on 1.3 off         0.12 on 0.12 off         1.0 on 4.0 off         1.0 on 1.0 off         0.15 on 0.15 off         0.2 on 0.6 off 0.2 on 0.6 off         0.2 on 0.6 off         0.2 on 0.6 off         0.2 on 0.6 off         0.2 on 0.6 off         0.2 on 0.6 off         0.2 on 0.6 off         0.2 on 0.2 off         0.08 on 0.2 off         0.08 on 1.5 off         0.67 on 3.0 off 1.5 on 5.0 off         3x0.75 on 1.25 off         0.2 on 0.2 off         continuous         0.375 on 0.375 off         0.375 on 0.375 off         0.375 on 0.375 off         0.375 on 0.375 off         0.375 on 0.2 off         0.4 on 0.2 off 0.4 on 2.0 off         0.1 on 0.2 off 0.1 on 4.7 off         0.5 on 0.5 off         0.3 on 0.2 off         0.3 on 0.2 off         continuous
Howler tone - Intrusion tone - Number unobtainable tone - Ringing tone - Special information tone - Call waiting tone - <b>Kenya (Republic of)</b> Busy tone - Congestion tone - Dial tone - Pay tone - I Pay tone - I Pay tone - I Pay tone - I Pay tone - Operator intervening Call waiting tone - <b>Kiribati (Republic of)</b> Busy tone - Congestion tone - Dial tone - Number unobtainable tone - Ringing tone - Call waiting tone - Congestion tone - Dial tone - Number unobtainable tone - Ringing tone - Congestion tone - Dial tone - Recall dial tone - I	950 420x40 420x40 420x40 (950/1400/1800)x40 420x40 425 425 425 941 800/1600 1633 425 900/1400/1800 425 425 425 425 425 425 425 425	continuous         0.2 on 0.2 off 0.2 on 1.3 off         0.12 on 0.12 off         1.0 on 4.0 off         1.0 on 1.0 off         0.15 on 0.15 off         0.2 on 0.6 off 0.2 on 0.6 off         0.2 on 0.6 off         0.2 on 0.6 off         0.2 on 0.6 off         0.2 on 0.6 off         0.2 on 0.6 off         0.2 on 0.6 off         0.2 on 0.6 off         0.2 on 0.6 off         0.2 on 0.6 off         0.2 on 0.4 off         0.2 on 0.2 off         0.08 on 1.5 off         0.8 on 1.5 off         0.67 on 3.0 off 1.5 on 5.0 off         3x0.75 on 1.25 off         0.2 on 0.2 off         continuous         0.375 on 0.375 off         0.375 on 0.375 off         0.375 on 0.375 off         0.4 on 0.2 off 0.4 on 2.0 off         0.4 on 0.2 off 0.1 on 4.7 off         0.5 on 0.5 off         0.3 on 0.2 off         ontinuous         1.0 on 4.0 off
Howler tone - Intrusion tone - Number unobtainable tone - Ringing tone - Special information tone - Call waiting tone - <b>Kenya (Republic of)</b> Busy tone - Congestion tone - Dial tone - Pay tone - I Pay tone - I Pay tone - I Pay tone - I Pay tone - operator intervening Call waiting tone - Special information tone - Warning tone - operator intervening Call waiting tone - Congestion tone - Dial tone - Number unobtainable tone - Ringing tone - Call waiting tone - Congestion tone - Dial tone - Number unobtainable tone - Ringing tone - Call waiting tone - Call waiting tone - Congestion tone - Dial tone - Congestion tone - Dial tone - Dial tone - Dial tone -	950 420x40 420x40 (950/1400/1800)x40 420x40 420x40 425 425 425 941 800/1600 1633 425 900/1400/1800 425 425 425 425 425 425 425 425 425 425	continuous         0.2 on 0.2 off 0.2 on 1.3 off         0.12 on 0.12 off         1.0 on 4.0 off         1.0 on 1.0 off         0.15 on 0.15 off         0.2 on 0.6 off 0.2 on 0.6 off         0.2 on 0.6 off         0.2 on 0.6 off         0.2 on 0.6 off         0.2 on 0.6 off         0.2 on 0.6 off         0.2 on 0.6 off         0.2 on 0.2 off         0.08 on 0.2 off         0.08 on 1.5 off         0.67 on 3.0 off 1.5 on 5.0 off         3x0.75 on 1.25 off         0.2 on 0.2 off         continuous         0.375 on 0.375 off         0.375 on 0.375 off         0.375 on 0.375 off         0.4 on 0.2 off 0.4 on 2.0 off         0.1 on 0.2 off 0.1 on 4.7 off         0.5 on 0.5 off         0.3 on 0.2 off         0.3 on 0.2 off         0.3 on 0.2 off         0.3 on 0.2 off         ontinuous

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Number unobtainable tone -	450	0.2 on 0.1 off 0.2 on 1.5 off
Ringing 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 - Dial tone -	425 425	0.25 on 0.25 off 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
Ringing tone -	425	1.0 on 4.0 off
Route tone -	425 950/1400/1800	0.1 on 0.1 off 3x0.33 on 1.00 off
Special information tone - 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 - Positive indication tone -	950/1400/1800 425	3x0.33 on 1.0 off 1x(0.2 on)
Ringing 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 - Number unobtainable tone -	425 425	0.4 on 0.04 off 2.5 on 0.5 off
Ringing tone -	425	1.0 on 4.0 off
Waiting tone -	425	0.4 on 0.4 off
_atvia (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
Ringing 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	105	0.5 0.5 W
Busy tone -	425	0.5 on 0.5 off
Congestion tone - Dial tone -	425 425	0.24 on 0.24 off continuous
Ringing 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
Ringing tone -	400/425	1.0 on 4.0 off
Special information tone - I	425	0.16 on 2.0 off
One shall be former at the second sec		
Special information tone - II	900/1400/1800	3x0.3 on 1.0 off
Special information tone - II Call waiting tone - I Call waiting tone - II	900/1400/1800 425 425	1.0 on 3.0 off 0.15 on 0.15 off

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Liberia (Republic of)		
Busy tone -	425	0.5 on 0.5 off
Dial tone -	425	
Number unobtainable tone - Ringing tone -	425 425//450	0.6 on 0.2 off 3x(0.2 on 0.2 off) 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 Congestion tone -	425 425//420	0.5 on 0.5 off 0.2 on 0.2 off
Dial tone -	420	continuous
Recall dial tone -	420	continuous
Special dial tone -	380+420	continuous
Negative indication tone - Number unobtainable tone -	380+420 950/1400/1800	0.4 on 0.4 off 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
Ringing tone - I	425	continuous
Ringing tone - II	420	1.0 on 5.0 off
Ringing tone - III Special information tone -	400//425 950/1400/1800	1.0 on 4.0 off 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 - Dial tone -	425 425	0.2 on 0.2 off continuous
Ringing 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 - Dial tone -	425//2125 425//2125	0.24 on 0.24 off continuous
Special dial tone -	400//425	continuous
Ringing tone -	425//2125	1.0 on 4.0 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Test number tone - Call waiting tone -	1000 425	continuous continuous
Ū	425	continuous
Macao, China	405	
Busy tone - Congestion tone -	425 425	0.5 on 0.5 off 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
Ringing tone - Special information tone -	425 950/1400/1800	1.0 on 4.0 off 3x0.333 on 1.0 off
Call waiting tone -	950/1400/1800 425	0.2 on 0.6 off
Madagascar (Republic of)	120	
Busy tone -	440//425	0.5 on 0.5 off
Congestion tone -	440//423	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//425 440	0.05 on 0.05 off 0.40 on 0.04 off
Special information tone - Call waiting tone -	440	0.40 on 0.04 off 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 - Ringing tone -	1100+1750/750+1450 425	2x(0.2 on 0.2 off) 1.0 on 4.0 off

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Special ringing tone - Special information tone -	425 950/1400/1800	1.0 on 4.0 off 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
•••	425	
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 -	425	announcement
-	405	
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 -	425	announcement
•	1100	
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
Route tone -	425	0.05 on 0.05 off
	120	
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 (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
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
	425	0.5 on 0.17 off 0.17 on 0.17 off
Warning tone - operator intervening		
Warning tone - operator intervening	425	0.35 on 0.35 off
Warning tone - operator intervening Moldova (Republic of)	425 425	0.35 on 0.35 off 0.2 on 0.2 off

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
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
Montserrat	720	0.2 01 0.0 01
Busy tone -	480+620	0.5 on 0.5 off
5	480+620	0.25 on 0.25 off
Congestion tone -		
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
	425	1.7 on 3.3 off
Ringing tone - I		
Ringing tone - II	425 425	1.0 on 4.0 off
Ringing tone - III	420	2.0 on 2.0 off
Mozambique (Republic of)	100	0.5 an 0.5 aff
Busy tone -	400	0.5 on O.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
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
Ringing 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	continuous
Nauru (Republic of)	100,000	
· · ·	400	0.5 an 0.5 off
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
Ringing tone -	400	1.0 on 4.0 off
Ringing tone - pabx	425x25	0.4 on 0.2 off 0.4 on 2.0 off
Nepal		
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
Ringing tone -	425	1.1 on 3.1 off
Netherlands (Kingdom of the)		
,	105	0.5  on  0.5  off
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
Ringing tone -	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)		
	110	
Busy tone - Congestion tone -	440 950/1400/1800	0.5 on 0.5 off 2x[3x0.33 on + announcement]

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Dial tone -	440//330+440	continuous
Ringing tone -	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	100	
Busy tone -	400 400	0.5 on 0.5 off 0.25 on 0.25 off
Congestion tone - 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
Ringing tone - I	400+450	0.4 on 0.2 off 0.4 on 2.0 off
Ringing tone - II (call waiting) Call waiting tone - I	400+450 400	0.4 on 0.2 off 0.4 on 0.2 off 0.4 on 1.2 off 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
Ringing tone -	440	1.7 on 3.3 off
Route tone -	440	0.05 on 0.05 off
Nigeria (Federal Republic of)		
Busy tone -	400	0.5 on 0.5 off
Congestion tone - Dial tone -	400 400//450	0.25 on 0.25 off continuous
Recall dial tone -	400//430	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
Ringing tone -	400//450	2.0 on 4.0 off
Special information tone -	400//33	0.2 on 1.5 off
Warning tone - operator intervening Call waiting tone -	400 400	0.15 on 0.25 off 0.15 on 1.45 off 0.2 on 0.2 off
Norway	400	
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)
Ringing 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
<b>Dman (Sultanate of)</b> 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
Ringing 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
Ringing tone -	400	1.0 on 2.0 off
Panama (Republic of)		
Busy tone -	425	0.32 on 0.32 off
Busy tone - Congestion tone -	425	0.32 on 0.32 off
Busy tone - Congestion tone - Dial tone -	425 425	0.32 on 0.32 off continuous
Busy tone - Congestion tone - Dial tone - Number unobtainable tone -	425 425 425	0.32 on 0.32 off continuous 0.18 on 0.18 off 0.5 on 0.18 off
Busy tone - Congestion tone - Dial tone - Number unobtainable tone - Ringing tone -	425 425 425 425 425	0.32 on 0.32 off continuous 0.18 on 0.18 off 0.5 on 0.18 off 1.2 on 4.65 off
Busy tone - Congestion tone - Dial tone - Number unobtainable tone -	425 425 425	0.32 on 0.32 off continuous 0.18 on 0.18 off 0.5 on 0.18 off

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
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)
Ringing 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)		
	405	0 E on 0 E off
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
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	0.3 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
•	425	
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
	125	
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
Ū		0.0 011 10.0 01
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 - I	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)	425	0.36 on 0.36 off
Congestion tone -	400	0.2 on 0.2 off
Dial tone -	425	continuous
	425	1.0 on 0.2 off
Special dial tone - (mobile)		
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

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
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
	425	
Call waiting tone - II		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
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
Reunion (French Department of)		
Busy tone -	440	0.5 on 0.5 off
5		
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
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	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	105	
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
Rwandese Republic		
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
	400	0.125 on 0.125 off
Pay tone - Ringing tone -	400 400+450	0.125 on 0.125 off 0.4 on 0.2 off
• •	JOL - 100	0.4 011 0.2 011
Saint Kitts and Nevis	400+000	
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
		0.25 on 0.25 off
Number unobtainable tone -	480+620	
Payphone recognition tone -	1600/1143	0.2 on 0.2 off 0.2 on 2.0 off
Payphone recognition tone - Ringing tone -	1600/1143 440+480	0.2 on 0.2 off 0.2 on 2.0 off 2.0 on 4.0 off
Payphone recognition tone - Ringing tone - Special information tone -	1600/1143 440+480 950/1400/1800	0.2 on 0.2 off 0.2 on 2.0 off 2.0 on 4.0 off 3x0.33 on 1.0 off
Payphone recognition tone - Ringing tone -	1600/1143 440+480	0.2 on 0.2 off 0.2 on 2.0 off 2.0 on 4.0 off

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
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
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
Ringing 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
Ringing tone -	425x25	0.4 on 0.2 off
San Marino (Republic of)		
	105	0.0 am 0.0 aff
Busy tone -	425 425	0.2 on 0.2 off 0.6 on 1.0 off 0.2 on 0.2 off
Dial tone -	425	1.0 on 4.0 off
Ringing tone -	425	1.0 011 4.0 011
Sao Tome and Principe (Democratic Republic of)		
Busy tone -	425	0.5 on 0.5 off
Dial tone -	425	continuous
Pay tone -	12000	continuous
Ringing tone -	425	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)		
<b>νο</b> ,	405	
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
Ringing tone - Call waiting tone -	425 425	1.2 on 4.6 off 0.15 on 0.2 off 0.15 on 10.0 off
•	720	0.15 01 0.2 01 0.15 01 10.0 01
Senegal (Republic of)		
Busy tone -	440	0.5 on 0.5 off
Dial tone -	440	continuous
Ringing tone -	400	1.7 on 3.3 off
Special information tone -	900/1380/1860	0.35 on 0.30 on 0.35 on
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	
Number unobtainable tone -	3000 425	continuous continuous
Ringing tone -	425	0.4 on 0.2 off 0.4 on 2.0 off
	425	0.4 on 0.2 off 0.4 on 2.0 off 0.5 on 0.5 off
Route tone -	720	0.0 01 0.0 01
Route tone -		
Sierra Leone		
Sierra Leone Busy tone -	425//450	0.5 on 0.5 off
Sierra Leone	425//450 425	0.5 on 0.5 off 0.2 on 0.2 off

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COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Dial tone -	425//450	continuous
Number unobtainable tone -	950//450/150	0.33 on 0.03 off
Ringing 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 0.25 on 2.0 off
Intrusion tone - Number unobtainable tone -	425 425	2.5 on 0.5 off
Ringing 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	
Special dial tone -	425	3x(0.165 on 0.165 off) 0.660 on 0.660 off
Offering tone, trunk - Pay tone - I (cards)	425 622	0.33 on 0.33 off 0.33 on 1.50 off 0.125 on 0.125 off
Pay tone - II (coins)	941	0.2 on 0.2 off 0.2 on 3.6 off
Ringing 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
Ringing tone -	425	1.0 on 4.0 off
Special information tone - Call waiting tone -	950/1400/1800 425	3x0.33 on 1.00 off 0.3 on 10.0 off
Solomon Islands	425	0.5 01 10.0 01
	400	0.5 on 0.5 off
Busy tone - 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
Ringing 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 - Notify tone -	400 900	0.15 on 0.25 off 0.15 on 1.45 off 0.2 on 0.2 off 0.2 on 0.2 off
Number unobtainable tone -	400	2.5 on 0.5 off
Ringing 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 - Special dial tone - I	425 425	continuous 1.0 on 0.1 off
Special dial tone - I Special dial tone - II	425	0.5 on 0.05 off
Number unobtainable tone - I	425	0.2 on 0.2 off 0.2 on 0.6 off
Number unobtainable tone - II	425	0.5 on 2.5 off
Payphone recognition tone - I	1600	0.05 on 0.05 off 0.05 on 1.5 off
Payphone recognition tone - II	1600	0.05 on 0.05 off 0.05 on 0.05 off 0.05 on 1.5 off
Ringing tone - I	425	1.5 on 3.0 off

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COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Ringing tone - II	425	1.0 on 4.0 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Warning tone - operator intervening	1400	0.4 on 5.0 off
Call waiting tone -	425	0.175 on 0.175 off 0.175 on 3.5 off
Sri Lanka (Democratic Socialist Republic	•	
of) Busy tone -	425	0.75 on 0.75 off
Congestion tone -	425	0.25 on 0.25 off
Dial tone -	425	continuous
Holding tone -	425	0.5 on 2.5 off
Intrusion tone -	425	0.5 on 0.75 off
Number unobtainable tone -	425+330	continuous
Ringing tone -	425	0.4 on 0.2 off 0.4 on 2.0 off
Route tone -	425	0.05 on 0.05 off
Special information tone -	950/1400/1800	(3x0.33 on 2x 0.03 off)
Warning tone -	425	0.5 on 4.5 off
Call waiting tone -	425	0.5 on 2.5 off
Sudan (Republic of the)		
Busy tone -	425	1.0 on 1.0 off
Congestion tone -	425	0.375 on 0.375 off
Dial tone -	425	continuous
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	0.15 on 0.15 off 0.15 on 4.0 off
Suriname (Republic of)		
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 1.0 off
Swaziland (Kingdom of)		
Busy tone - I	400	0.5 on 0.5 off
Busy tone - II	400	0.4 on 0.4 off
Dial tone -	50	continuous
Number unobtainable tone -	400	4.8 on 0.2 off
Pay tone -	900	0.25 on 0.25 off
Payphone recognition tone - I	1430/943	2.0 on 2.0 off
Payphone recognition tone - II	1100+1750/750+1450	0.2 on 0.2 off 0.2 on 2.0 off
Ringing tone -	400	0.4 on 0.2 off 0.4 on 4.0 off
Sweden	405	0.25  on  0.25  off
Busy tone - I Busy tone - II (1)	425 425	0.25 on 0.25 off 0.5 on 0.5 off
Busy tone - II (1)		0.5 on 0.5 off 0.25 on 0.75 off
Congestion tone - I	425 425	0.25 on 0.75 off 0.2 on 0.2 off
Congestion tone - II (1) Dial tone -	425 425	0.2 on 0.2 off continuous
Special dial tone -	425	0.32 on 0.02 off
Pay tone -	425 941	2x(0.2 on 0.2 off 0.2 on 3.6 off)
Payphone recognition tone -	1477/941	11x(0.2  on  0.2  off  0.2  on  2.0  off)
Ringing tone - I	425	1.0 on 5.0 off
Ringing tone - II (1)	425	1.0 on 4.0 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off + announcement
	425	2.0  on  5.0  off + continuous
Warning tone - at time limit barring		
		0.1 on 1.5 off
Warning tone - operator intervening	1400 1400	0.1 on 1.5 off 0.35 on 15.0 off
Warning tone - operator intervening Warning tone - three party conference	1400	0.35 on 15.0 off
Warning tone - at time limit barring Warning tone - operator intervening Warning tone - three party conference Call waiting tone - I Call waiting tone - II (1)	1400 1400	
Warning tone - operator intervening Warning tone - three party conference Call waiting tone - I Call waiting tone - II (1)	1400 1400 425	0.35 on 15.0 off 1x(0.2 on 0.5 off 0.2 on)
Warning tone - operator intervening Warning tone - three party conference Call waiting tone - I	1400 1400 425 425 425	0.35 on 15.0 off 1x(0.2 on 0.5 off 0.2 on) 0.2 on 0.6 off 0.2 on 3.0 off 0.2 on 0.6 off 0.2 on 0.5 on 0.5 off
Warning tone - operator intervening Warning tone - three party conference Call waiting tone - I Call waiting tone - II (1) Switzerland (Confederation of) Busy tone - Congestion tone -	1400 1400 425 425 425 425	0.35 on 15.0 off 1x(0.2 on 0.5 off 0.2 on) 0.2 on 0.6 off 0.2 on 3.0 off 0.2 on 0.6 off 0.2 on 0.5 on 0.5 off 0.2 on 0.2 off
Warning tone - operator intervening Warning tone - three party conference Call waiting tone - I Call waiting tone - II (1) Switzerland (Confederation of) Busy tone - Congestion tone - Dial tone -	1400 1400 425 425 425 425 425 425 425	0.35 on 15.0 off 1x(0.2 on 0.5 off 0.2 on) 0.2 on 0.6 off 0.2 on 3.0 off 0.2 on 0.6 off 0.2 on 0.5 on 0.5 off 0.2 on 0.2 off continuous
Warning tone - operator intervening Warning tone - three party conference Call waiting tone - I Call waiting tone - II (1) Switzerland (Confederation of) Busy tone - Congestion tone - Dial tone - Special dial tone -	1400 1400 425 425 425 425 425 425 425 425+340	0.35 on 15.0 off 1x(0.2 on 0.5 off 0.2 on) 0.2 on 0.6 off 0.2 on 3.0 off 0.2 on 0.6 off 0.2 on 0.5 on 0.5 off 0.2 on 0.2 off continuous 1.1 on 1.1 off
Warning tone - operator intervening Warning tone - three party conference Call waiting tone - I Call waiting tone - II (1) Switzerland (Confederation of) Busy tone - Congestion tone - Dial tone - Special dial tone - Ringing tone -	1400 1400 425 425 425 425 425 425 425 425+340 425	0.35 on 15.0 off 1x(0.2 on 0.5 off 0.2 on) 0.2 on 0.6 off 0.2 on 3.0 off 0.2 on 0.6 off 0.2 on 0.5 on 0.5 off 0.2 on 0.2 off continuous 1.1 on 1.1 off 1.0 on 4.0 off
Warning tone - operator intervening Warning tone - three party conference Call waiting tone - I Call waiting tone - II (1) Switzerland (Confederation of) Busy tone - Congestion tone - Dial tone - Special dial tone - Ringing tone - Special information tone -	1400 1400 425 425 425 425 425 425 425 425+340 425 950/1400/1800	0.35 on 15.0 off 1x(0.2 on 0.5 off 0.2 on) 0.2 on 0.6 off 0.2 on 3.0 off 0.2 on 0.6 off 0.2 on 0.5 on 0.5 off 0.2 on 0.2 off continuous 1.1 on 1.1 off 1.0 on 4.0 off 3x0.333 on 1.0 off
Warning tone - operator intervening Warning tone - three party conference Call waiting tone - I Call waiting tone - II (1) Switzerland (Confederation of) Busy tone - Congestion tone - Dial tone - Special dial tone - Ringing tone - Special information tone - Call waiting tone -	1400 1400 425 425 425 425 425 425 425 425+340 425	0.35 on 15.0 off 1x(0.2 on 0.5 off 0.2 on) 0.2 on 0.6 off 0.2 on 3.0 off 0.2 on 0.6 off 0.2 on 0.5 on 0.5 off 0.2 on 0.2 off continuous 1.1 on 1.1 off 1.0 on 4.0 off
Warning tone - operator intervening Warning tone - three party conference Call waiting tone - I Call waiting tone - II (1) Switzerland (Confederation of) Busy tone - Congestion tone - Dial tone - Special dial tone - Ringing tone - Special information tone - Call waiting tone - Syrian Arab Republic	1400 1400 425 425 425 425 425 425 425 425+340 425 950/1400/1800 425	0.35 on 15.0 off 1x(0.2 on 0.5 off 0.2 on) 0.2 on 0.6 off 0.2 on 3.0 off 0.2 on 0.6 off 0.2 on 0.5 on 0.5 off 0.2 on 0.2 off continuous 1.1 on 1.1 off 1.0 on 4.0 off 3x0.333 on 1.0 off 0.2 on 0.2 off 0.2 on 4.0 off
Warning tone - operator intervening Warning tone - three party conference Call waiting tone - I Call waiting tone - I (1) Switzerland (Confederation of) Busy tone - Congestion tone - Dial tone - Special dial tone - Ringing tone - Special information tone - Call waiting tone - Syrian Arab Republic Busy tone -	1400 1400 425 425 425 425 425 425 425 425 425 425	0.35 on 15.0 off 1x(0.2 on 0.5 off 0.2 on) 0.2 on 0.6 off 0.2 on 3.0 off 0.2 on 0.6 off 0.2 on 0.5 on 0.5 off 0.2 on 0.2 off continuous 1.1 on 1.1 off 1.0 on 4.0 off 3x0.333 on 1.0 off 0.2 on 0.2 off 0.2 on 4.0 off 0.5 on 0.5 off
Warning tone - operator intervening Warning tone - three party conference Call waiting tone - I Call waiting tone - II (1) Switzerland (Confederation of) Busy tone - Congestion tone - Dial tone - Special dial tone - Ringing tone - Special information tone - Call waiting tone - Syrian Arab Republic Busy tone - Congestion tone -	1400 1400 425 425 425 425 425 425 425 425 425 425	0.35 on 15.0 off 1x(0.2 on 0.5 off 0.2 on) 0.2 on 0.6 off 0.2 on 3.0 off 0.2 on 0.6 off 0.2 on 0.5 on 0.5 off 0.2 on 0.2 off continuous 1.1 on 1.1 off 1.0 on 4.0 off 3x0.333 on 1.0 off 0.2 on 0.2 off 0.2 on 4.0 off 0.5 on 0.5 off 0.25 on 0.25 off
Warning tone - operator intervening Warning tone - three party conference Call waiting tone - I Call waiting tone - II (1) Switzerland (Confederation of) Busy tone - Congestion tone - Dial tone - Special dial tone - Ringing tone - Special information tone - Call waiting tone - Syrian Arab Republic Busy tone - Congestion tone - Dial tone - Dial tone -	1400 1400 425 425 425 425 425 425 425 425 425 425	0.35 on 15.0 off 1x(0.2 on 0.5 off 0.2 on) 0.2 on 0.6 off 0.2 on 3.0 off 0.2 on 0.6 off 0.2 on 0.5 on 0.5 off 0.2 on 0.2 off continuous 1.1 on 1.1 off 1.0 on 4.0 off 3x0.333 on 1.0 off 0.2 on 0.2 off 0.2 on 4.0 off 0.5 on 0.5 off 0.25 on 0.25 off continuous
Warning tone - operator intervening Warning tone - three party conference Call waiting tone - I Call waiting tone - II (1) Switzerland (Confederation of) Busy tone - Congestion tone - Dial tone - Special dial tone - Ringing tone - Special information tone - Call waiting tone - Syrian Arab Republic Busy tone - Congestion tone -	1400 1400 425 425 425 425 425 425 425 425 425 425	0.35 on 15.0 off 1x(0.2 on 0.5 off 0.2 on) 0.2 on 0.6 off 0.2 on 3.0 off 0.2 on 0.6 off 0.2 on 0.5 on 0.5 off 0.2 on 0.2 off continuous 1.1 on 1.1 off 1.0 on 4.0 off 3x0.333 on 1.0 off 0.2 on 0.2 off 0.2 on 4.0 off 0.5 on 0.5 off 0.25 on 0.25 off

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
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
Ringing 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
Ringing tone - I	425	1.0 on 4.0 off
Ringing 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		
	400	0.5  on  0.5  off
Busy tone -	400 400	0.5 on 0.5 off 0.3 on 0.3 off
Congestion tone - Dial tone -	400 400x50	continuous
Special dial tone -	400x50 400x50	0.4 on 0.1 off 0.4 on 0.1 off + continuous
Number unobtainable tone -	400,30	0.1 on 0.1 off 0.1 on 0.1 off 0.1 on 0.1 off 0.3 of
Offering tone, trunk -	400	0.17 on 0.17 off 0.15 on 0.17 off
Ringing tone -	400	1.0 on 4.0 off
Special information tone -	400	announcement
•	400	1.0 on 10.0 off 1.0 on
Call waiting tone -	400	
The Former Yugoslav Republic of		
Macedonia		o - o - <i>m</i>
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 0.5 on 10.0~15.0 off
Pay tone -	425 425	1.0 on 4.0 off
Ringing tone - 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
0	120	
Tokelau		
Busy tone -	400	0.5 on 0.5 off
Congestion tone -	400	0.5 on 0.5 off
Dial tone -	400	continuous
Ringing tone -	400+450	0.4 on 0.2 off
Special information tone -	400	3x(0.075 on 0.1 off)
Trinidad and Tobago		
Busy tone -	480+620	0.5 on 0.5 off
Dial tone -	350+440	continuous
Ringing 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
Ringing tone -	425	1.20 on 4.65 off
Special information tone -	900/1400/1800	(3x0.33 on 2x0.03 off) 1.0 off
	425	0.2 on 0.6 off
Call waiting tone -		
Call waiting tone -		
Turkey	450	
Turkey Busy tone -	450	0.5 on 0.5 off
Turkey Busy tone - Confirmation tone -	450	0.04 on 0.04 off
Turkey Busy tone -		

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Special dial tone - Howler tone -	450 1400/2060/2460/2600	1.0 on 0.25 off 0.1 on 0.1 off
Number unobtainable tone -	450	0.2 on 0.2 off
Ringing 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
Ringing tone -	25	0.4 on 4.0 off
Route tone -	25	0.4 on 0.4 off
Turks and Caicos Islands	100 - 000	0.5 0.5
Busy tone -	480+620	0.5 on 0.5 off
Congestion tone -	480+620 350+440	0.25 on 0.25 off
Dial tone - Recall dial tone -	350+440 350+440	continuous 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)
Tuvalu		· · · · · · · · · · · · · · · · · · ·
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	2.5 on (every 10.0 sec.)
Dial tone -	425	continuous
Ringing 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
Ringing tone - I	425	1.0 on 4.0 off
Ringing tone - II	425//440	0.4 on 0.2 off 0.4 on 2.0 off
Ringing tone - III	450	0.4 on 0.2 off
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	400//405	0.075 an 0.075 -ff
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 - Ringing tone -	400//425 400+450//425	continuous 0.4 on 0.2 off 0.4 on 2.0 off
United Kingdom of Great Britain and		5.7 0H 0.2 0H 0.4 0H 2.0 0H
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
Ringing tone -	400+450//400x25//400x 16	0.4 on 0.2 off 0.4 on 2.0 off
	2/3	
United States of America		
Busy tone -	600x120//600x133//600	0.5 on 0.5 off
-	x140//600x160//480+62	
Confirmation tone -	350+440	3x(0.1 on 0.1 off)
Dial tone -	600x120//600x133//600	continuous
	x140//600x160//350+44	
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COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Recall dial tone -	350+440	3x(0.1 on 0.1 off) + continuous
Intrusion tone -	600x120//600x133//600	0.5 on 0.5 off
	x140//600x160//480+62	
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
Ringing tone -	420x40//500x40//440+480	2.0 on 4.0 off
Re-order tone -	600x120//600x133//600	0.3 on 0.2 off
	x140//600x160//480+62	
Warning tone - message (4)	1400	0.5 on
Call waiting tone -	440	2x(0.3 on 10.0 off)
Ū		
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
Ringing tone -	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
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 2x0.03 off 1.0 off
Call waiting tone -	425	0.3 on 10.0 off
Venezuela (Bolivarian Republic of)		
,	425	0.5  on  0.5  off
Busy tone -		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
Ringing tone -	425	1.0 on 4.0 off
Special information tone -	950/1440/1800	3x0.33 on 1.0 off
Call waiting tone -	400/450	0.3 on 6.0 off
Caller waiting tone -	425	1.0 on 4.0 off
0	.20	
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
Ringing tone -	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)		
	125	$0 \in \mathcal{O} \times \mathcal{O} \in \mathcal{O} $
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.25 on 0.25 off
	400	continuous
Dial tone -	102	
Dial tone - Ringing tone -	425	1.0 on 4.0 off
Ringing tone -		1.0 on 4.0 off
Ringing tone - Yugoslavia (Federal Republic of)	425	
Ringing tone - <b>Yugoslavia (Federal Republic of)</b> Busy tone - I	425 425	0.5 on 0.5 off
Ringing tone - Yugoslavia (Federal Republic of)	425	
Ringing tone - <b>Yugoslavia (Federal Republic of)</b> Busy tone - I	425 425	0.5 on 0.5 off
Ringing tone - <b>Yugoslavia (Federal Republic of)</b> Busy tone - I Busy tone - II Dial tone -	425 425 425	0.5 on 0.5 off 0.2 on 0.4 off 0.7 on 0.8 off 0.2 on 0.3 off
Ringing tone - <b>Yugoslavia (Federal Republic of)</b> Busy tone - I Busy tone - II Dial tone - Ringing tone - I	425 425 425 425 450x25	0.5 on 0.5 off 0.2 on 0.4 off 0.7 on 0.8 off 0.2 on 0.3 off 1.0 on 9.0 off
Ringing tone - Yugoslavia (Federal Republic of) Busy tone - I Busy tone - II Dial tone - Ringing tone - I Ringing tone - II	425 425 425 425 450x25 425	0.5 on 0.5 off 0.2 on 0.4 off 0.7 on 0.8 off 0.2 on 0.3 off 1.0 on 9.0 off 1.0 on 4.0 off
Ringing tone - <b>Yugoslavia (Federal Republic of)</b> Busy tone - I Busy tone - II Dial tone - Ringing tone - I Ringing tone - II Special information tone -	425 425 425 425 450x25	0.5 on 0.5 off 0.2 on 0.4 off 0.7 on 0.8 off 0.2 on 0.3 off 1.0 on 9.0 off
Ringing tone - Yugoslavia (Federal Republic of) Busy tone - I Busy tone - II Dial tone - Ringing tone - I Ringing tone - II	425 425 425 425 450x25 425	0.5 on 0.5 off 0.2 on 0.4 off 0.7 on 0.8 off 0.2 on 0.3 off 1.0 on 9.0 off 1.0 on 4.0 off
Ringing tone - Yugoslavia (Federal Republic of) Busy tone - I Busy tone - II Dial tone - Ringing tone - I Ringing tone - II Special information tone - Zambia (Republic of)	425 425 425 425 450x25 425 950/1400/1800	0.5 on 0.5 off 0.2 on 0.4 off 0.7 on 0.8 off 0.2 on 0.3 off 1.0 on 9.0 off 1.0 on 4.0 off 3x0.333 on 1.0 off
Ringing tone - Yugoslavia (Federal Republic of) Busy tone - I Busy tone - II Dial tone - Ringing tone - I Ringing tone - II Special information tone - Zambia (Republic of) Busy tone -	425 425 425 425 450x25 425 950/1400/1800 425	0.5 on 0.5 off 0.2 on 0.4 off 0.7 on 0.8 off 0.2 on 0.3 off 1.0 on 9.0 off 1.0 on 4.0 off 3x0.333 on 1.0 off 0.5 on 0.5 off
Ringing tone - Yugoslavia (Federal Republic of) Busy tone - I Busy tone - II Dial tone - Ringing tone - I Ringing tone - II Special information tone - Zambia (Republic of) Busy tone - Congestion tone -	425 425 425 425 450x25 425 950/1400/1800 425 425	0.5 on 0.5 off 0.2 on 0.4 off 0.7 on 0.8 off 0.2 on 0.3 off 1.0 on 9.0 off 1.0 on 4.0 off 3x0.333 on 1.0 off 0.5 on 0.5 off 0.25 on 0.25 off
Ringing tone - Yugoslavia (Federal Republic of) Busy tone - I Busy tone - II Dial tone - Ringing tone - I Ringing tone - II Special information tone - Zambia (Republic of) Busy tone - Congestion tone - Dial tone -	425 425 425 425 450x25 425 950/1400/1800 425 425 425	0.5 on 0.5 off 0.2 on 0.4 off 0.7 on 0.8 off 0.2 on 0.3 off 1.0 on 9.0 off 1.0 on 4.0 off 3x0.333 on 1.0 off 0.5 on 0.5 off 0.25 on 0.25 off continuous
Ringing tone - Yugoslavia (Federal Republic of) Busy tone - I Busy tone - II Dial tone - Ringing tone - I Ringing tone - II Special information tone - Zambia (Republic of) Busy tone - Congestion tone -	425 425 425 425 450x25 425 950/1400/1800 425 425	0.5 on 0.5 off 0.2 on 0.4 off 0.7 on 0.8 off 0.2 on 0.3 off 1.0 on 9.0 off 1.0 on 4.0 off 3x0.333 on 1.0 off 0.5 on 0.5 off 0.25 on 0.25 off

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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	0.1 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	
Ringing tone -	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.

# Notification Form for Change of tones used in national networks

Country/Organisation: Contact-person, Name: Tel: Fax:

Email:

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

Other new or changed tones				

*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:
 f1 × f2
 f1 is modulated by f2

 f1+f2
 the juxtaposition of two frequencies f1 and f2 without modulation

 f1/f2
 f1 is followed by f2

 f1/f2
 in some exchanges frequency f1 is used and in others frequency f2 is used.

 Cadence in seconds:
 ON - OFF