Annex to ITU Operational Bulletin No. 955 – 1.V.2010



INTERNATIONAL TELECOMMUNICATION UNION

TSB TELECOMMUNICATION STANDARDIZATION BUREAU OF ITU

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

(POSITION ON 1 MAY 2010)

Geneva, 2010

Various tones used in national networks

Note by TSB

1. The List of various tones used in national networks has now been updated by amendments published in ITU Operational Bulletin..

2. Administrations are reminded of the advantages of standardizing audible tones as far as possible so that subscribers and operators may quickly recognize any tone transmitted of whatever origin.

3. In order to have current information and to keep the List up-to-date, Administrations are strongly requested to submit a concise technical description of any new or changed network tones to the ITU/TSB whenever such tones are introduced, by using the attached Notification form.

4. For your information, this list will be updated by numbered series of amendments published in the ITU Operational Bulletin. Furthermore, the information contained in this Annex is also available on the ITU web page www.itu.int/itu-t/bulletin/annex.html.

5. Please address any comments or any modifications concerning this List to the Director of the TSB:

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

Various tones used in national networks

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Albania (Republic of)		
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.2 on 0.2 off
Dial tone -	425	continuous
Ringing tone -	425	1.0 on 4.0 off
Call waiting tone -	425	0.2 on 0.2 off 0.2 on 1.4 off
Call waiting tone -	425	0.2 011 0.2 011 0.2 011 1.4 011
Algeria (People's Democratic		
Republic of)		
Busy tone -	425	0.5 on 0.5 off
Ringing tone -	425	1.5 on 3.5 off
Andorra (Principality of)		
	425	0.2 on 0.2 off
Busy tone -	425	
Congestion tone -		2x(0.2 on 0.2 off) 0.2 on 0.2 off
Dial tone -	425	continuous
Second dial tone -	425	continuous
Pay tone -	1600	0.05 on 0.05 off 0.05 on 0.05 off 1.5 off
Ringing tone -	425	1.5 on 3.0 off
Special information tone -	950/1400/1800	3x0.333 on 1.0 off
Call waiting tone -	425	0.175 on 0.175 off 0.175 on 3.5 off
Angola (Republic of)		
	400	0.5 on 0.5 off
Busy tone -		
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
0		
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)
Antique and Barbuda		
Antigua and Barbuda	100 - 000	0.5 0.5 <i>(</i> (
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)
0		(
Argentine Republic		
Busy tone -	425	0.3 on 0.2 off
Congestion tone -	425	0.3 on 0.4 off
Dial tone -	425	continuous
End of three party service tone -	950/1400/1800	1x(3x0.33 on)
Ringing tone -	425	1.0 on 4.0 off
Service activated tone -	425	1.0 on 0.25 off
Warning tone - operator intervening	1400	5x0.1 on 1.9 off
Waiting tone -	425	0.4 on 0.2 off 0.4 on 4.0 off
Call waiting tone -	425	0.3 on 10.0 off
Ū	720	0.0 011 10.0 011
Aruba	105	0.5 - 0.5 %
Busy tone -	425	0.5 on 0.5 off
Confirmation tone -	425	continuous
Congestion tone -	425	0.25 on 0.25 off
	405	continuous
Dial tone - Refusal tone -	425 425	0.06 on 0.06 off

COUNTRY/TONE	FREQUENCY in Hz
Ringing tone -	425
Special information tone -	950/1400/1800
Call waiting tone -	425
-	
Ascension	100
Busy tone -	400
Congestion tone - Dial tone -	400 350+450
Number unobtainable tone -	400
Ringing tone -	400+450
Call waiting tone -	1400
-	
Australia	
Busy tone -	425//400
Congestion tone -	425//400
Conference tone - Dial tone -	425//525//1400 425x25//400+425+450//400+425//425
Facilities tone -	425
Intrusion tone -	425//525
Number unobtainable tone -	425//400
Ringing tone -	400x425//400+425+450//400+450
Call waiting tone -	425
5	
Austria	420
Busy tone - I	420 450
Busy tone - II (5) Congestion tone - I	430
Congestion tone - II (5)	420
Dial tone -	420//450
Recall dial tone -	420
Special dial tone -	380+420
Negative indication tone -	380+420
Number unobtainable tone -	950/1400/1800
Pay tone -	852
Positive indication tone -	380+420
Payphone recognition tone -	1633/1336
Ringing tone -	420//450
Special information tone -	950/1400/1800 420//450
Warning tone - operator intervening Waiting tone -	420//450 420
C C	720
Bahamas (Commonwealth of the)	
Busy tone -	480//620/120
Congestion tone -	480//620/120
Ringing tone -	480//620
Bahrain (Kingdom of)	
Acceptance tone -	425
Busy tone -	425
Congestion tone -	425
Dial tone -	330x440
Number unobtainable tone -	425
Pay tone -	816/1209
Ringing tone -	425
Route tone -	425
Call waiting tone -	425
Bangladesh (People's Republic of)	
Busy tone -	450
Congestion tone -	450
Dial tone -	450
Special dial tone -	450
Howler tone - Pay tone -	3000 800/1900
Ringing tone -	450
Warning tone - operator intervening	450
Call waiting tone -	450
Barbados	
	480+630
Busy tone - Congestion tone -	480+620 480+620
Dial tone -	350+440
Ringing tone -	440+480

CADENCE in seconds

1.0 on 4.0 off 3x0.33 on 1.0 off 0.2 on 0.2 off 0.2 on 4.4 off

0.384 on 0.384 off 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 2.5 on 0.5 off 0.4 on 0.2 off 0.4 on 2.0 off 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 0.125 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

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Special information tone - Call waiting tone -	950/1400/1800 440	3x0.33 on 2x(0.3 on 10.0 off)
0		
Belarus (Republic of)	405	0.4 cm 0.4 -ff
Busy tone -	425	0.4 on 0.4 off
Ringing tone -	425	0.8 on 3.2 off
Belgium		
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.167 on 0.167 off
Dial tone -	425	continuous
Special dial tone -	425	1.0 on 0.25 off
Holding tone -	1400	0.4 on 15.0 off
Ringing tone -	425	1.0 on 3.0 off
Special information tone -	900/1400/1800	3x0.33 on 1.0 off
Call waiting tone -	1400	0.175 on 0.175 off 0.175 on 3.50 off
Benin (Republic of)		
Busy tone -	440//425	0.5 on 0.5 off
Congestion tone -		announcement
Dial tone -	440//425	continuous
Special dial tone -	330+440	continuous
Pay tone -		announcement
Ringing tone -	440//425	1.7 on 3.3 off
Route tone -	440//425	0.05 on 0.05 off
Special information tone -		announcement
Call waiting tone -	440	continuous
Bermuda	-	··· · · · · · · · · · · · · · · · · ·
Busy tone -	480+620	0.5 on 0.5 off
Congestion tone -	480+620	0.25 on 0.25 off
Dial tone -	350+440	continuous
Ringing tone -	440+480	2.0 on 4.0 off
Special information tone -	913/1428/1776	0.27 on 0.38 on 0.38 on
Call waiting tone - (6)	440	
Bhutan (Kingdom of)		
Busy tone -	400	0.6 on 0.6 off
Dial tone -	400+25	continuous
Number unobtainable tone -	400	continuous
Offering tone, trunk -	450	0.2 on 0.2 off 0.2 on 0.6 off
-		
Ringing tone -	400+25	0.4 on 0.2 off 0.4 on 2.6 off 0.5 on 0.25 off
Waiting tone -	400	0.3 011 0.23 011
Bosnia and Herzegovina	405	
Busy tone -	425	0.5 on 0.5 off
Confirmation tone -	425	continuous
Congestion tone -	425	0.2 on 0.2 off
Dial tone -	425	0.2 on 0.3 off 0.7 on 0.8 off
Second dial tone - Special dial tone -	425	continuous 0.4 on 0.04 off
•	425	
Offering tone, trunk -	425 425	0.2 on 0.3 off 0.7 on 0.8 off
Pay tone -		0.5 on 15.0 off 0.2 on 0.2 off 0.2 on 2.0 off
Payphone recognition tone -	1100+1750	
Ringing tone - Special information tone -	425 950/1400/1800	1.0 on 4.0 off 3x0.33 on 1.0 off
Special information tone - Call waiting tone -	950/1400/1800 425	3x0.33 6h 1.0 σπ 0.3 on 10.0 off
Botswana (Republic of)	-	
Acceptance tone -	425	0.06 on 0.06 off
Busy tone -	425	0.38 on 0.38 off
Congestion tone -	425	0.25 on 0.25 off
Dial tone -	350+450	continuous
Special dial tone -	350+450	0.40 on 0.04 off
Holding tone -	425	5.0 on 5.0 off
Intrusion tone -	425	0.16 on 2.0 off
	425	5.0 on 1.0 off
		5.0 011 1.0 011
Line lock-out tone -		5 0 op 1 0 off
Line lock-out tone - Refusal tone -	425	5.0 on 1.0 off
Line lock-out tone - Refusal tone - Ringing tone -	425 425	0.4 on 0.2 off 0.4 on 2.0 off
Line lock-out tone - Refusal tone -	425	

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Brazil (Federative Republic of)		
Busy tone -	425	0.25 on 0.25 off
Dial tone -	425	continuous
Dial tone - pabx	425	0.975 on 0.05 off
Executive override tone -	750	0.02 on 1.0 off
Function acknowledge tone -	425	0.1 on 0.1 off 0.1 on 2.0 off
Number unobtainable tone -	425	0.75 on 0.25 off 0.25 on 0.25 off
Pay tone -	300	0.75 on
Ringing tone -	425	1.0 on 4.0 off
Waiting tone -	425	0.05 on 1.0 off
British Virgin Islands		
Busy tone -	480+620	0.5 on 0.5 off
Congestion tone -	480+620	0.25 on 0.25 off
Dial tone -	350+440	continuous
Recall dial tone -	350+440	3x(0.1 on 0.1 off) + continuous
Number unobtainable tone -	480+620	0.25 on 0.25 off
Payphone recognition tone -	1600/1143	0.2 on 0.2 off 0.2 on 2.0 off
Ringing tone -	440+480	2.0 on 4.0 off
Special information tone -	950/1400/1800 450	3x0.33 on 1.0 off 0.2 on 0.2 off 0.65 on 0.2 off
Warning tone - operator intervening Call waiting tone -	450	1x(0.5 on 10.0 off 0.5 on)
ů –		
Brunei Darussalam	400	0.375 on 0.375 off
Busy tone - Confirmation tone -	400 400x24	0.375 on 0.375 off 0.1 on 0.1 off 0.3 on 0.3 off
Congestion tone -	400x24 400	0.375 on 0.375 off
Dial tone -	400 400x50	continuous
Special dial tone -	400x50	0.1 on 0.1 off
Holding tone -	400x24	0.5 on 2.5 off
Number unobtainable tone -	400	continuous
Ringing tone -	400+450	0.4 on 0.2 off 0.4 on 0.2 off
Warning tone - end of period	400	0.624 on 4.376 off
Warning tone - operator intervening	400	0.25 on 2.0 off
Warning tone - pip tone	900	0.25 on 0.25 off
Waiting tone -	400	0.3 on 0.25 off
Call waiting tone -	400x24	0.5 on 0.25 off
Bulgaria (Republic of)		
Busy tone - I	425	0.5 on 0.5 off
Busy tone - II	425	0.2 on 0.5 off
Busy tone - III	425	0.25 on 0.25 off
Busy tone - IV	425	0.3 on 0.3 off
Congestion tone - I	425	0.25 on 0.25 off
Congestion tone - II	425	0.22 on 0.22 off
Congestion tone - III	425	0.5 on 0.5 off
Dial tone - I	425	
Dial tone - II	425	0.25 on 0.75 off 0.75 on 1.0 off
Dial tone - III	425 425	0.25 on 0.3 off 0.7 on 0.8 off
Dial tone - IV	425 425	0.25 on 0.25 off 0.25 on 1.0 off 1.5 on 0.1 off
Special dial tone - Holding tone - I	425 950/950/1400	0.65 on 0.32 off 0.32 on 0.32 off 1.30 on
		2.60 off
Holding tone - II	425/950/950/1400	1.50 on 5.12 off 1.50 on 5.12 off 1.50 on 5.12 off
Intrusion tone - I	425	0.24 on 0.24 off 0.24 on 1.20 off
Intrusion tone - II	425	2.0 on 0.5 off 2.0 on 0.5 off
Intrusion tone - III	425	0.25 on 0.25 off 0.25 on 1.5 off
Payphone recognition tone -	1100+1750/750+1450	0.2 on 0.2 off 0.2 on 2.0 off
Ringing tone - I	425	1.0 on 4.0 off
Ringing tone - II	425	1.0 on 9.0 off
Ringing tone - III	425	1.5 on 3.5 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Warning tone - I	1400	0.35 on 0.50 off
Warning tone - II	425/1400	0.5 on 0.5 off
Call waiting tone - I	425	0.15 on 0.15 off 0.15 on 4.0 off
Call waiting tone - II Call waiting tone - III	425 425	2x(0.3 on) 0.2 on 0.6 off
-	720	0.2 01 0.0 01
Burkina Faso Acceptance tone -	425	1.0 on 4.0 off

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Busy tone -	425//440//620	0.5 on 0.5 off
Confirmation tone -	350	0128 on 0.128 off 0.384 on
Congestion tone -	425//620	0.25 on 0.25 off
Dial tone -	425//440	continuous
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 -	425	0.05 on 0.05 off
Special information tone -	900/1380/1860	0.35 on 0.30 on 0.35 on 1.0 off
Burundi (Republic of)		
Busy tone -	425	0.5 on 0.5 off
5		
Congestion tone -	425	0.25 on 0.25 off
Dial tone -	425	continuous
Ringing tone -	425	1.7 on 3.3 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Cambodia (Kingdom of)		
Busy tone -	425	0.375 on 0.375 off
Congestion tone -	425	0.375 on 0.375 off
Dial tone -	425	continuous
Number unobtainable tone -	425	0.25 on 0.25 off
	425 425	0.25 0ft 0.25 0ft 0.4 on 0.2 off 0.4 on 2.0 off
Ringing tone -	423	0.4 00 0.2 00 0.4 00 2.0 00
Cameroon (Republic of)	440	0.5 0.5 %
Busy tone -	440	0.5 on 0.5 off
Congestion tone -	440	0.25 on 0.25 off
Dial tone -	440	continuous
Second dial tone -	330+440	continuous
Pay tone -	12000	continuous
Ringing tone -	440	1.7 on 3.3 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Call waiting tone -	440	0.2 on 0.6 off 0.2 on
Canada		
Busy tone -	480+620	0.5 on 0.5 off
Congestion tone -	480+620	0.25 on 0.25 off
Dial tone -	350+440	continuous
Ringing tone -	440+480	2.0 on 4.0 off
Call waiting tone -	440	2x(0.3 on 10.0 off)
Cayman Islands		
-	405	$0.5 \circ p 0.5 \circ ff$
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.25 on 0.25 off
Dial tone -	425	continuous
Number unobtainable tone -	425	0.25 on 0.25 off
Ringing tone -	425	1.0 on 4.0 off
Central African Republic		
•	405	
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	continuous
Second dial tone -	330+400	continuous
Ringing tone -	440	1.7 on 3.3 off
Special information tone -	950/1400/1800	(3x0.33 on 2x0.03 off) 1.0 off
Channel Islands: Guernsey		
Busy tone -	400	0.375 on 0.375 off
Congestion tone -	400	0.40 on 0.35 off 0.25 on 0.52 off
-		
Dial tone -	350+450	continuous
Special dial tone -	350+450	0.75 on 0.75 off
Devitere	400	0.125 on 0.125 off
Pay tone -		
Pay tone - Ringing tone -	400+450	0.4 on 0.2 off

Special information tone - Call waiting tone - Channel Islands: Jersey Busy tone - Congestion tone - Dial tone - Number unobtainable tone - Pay tone -	950/1400/1800 400 400	3x0.33 on 1.0 off 8x(0.1 on 4.9 off)
Channel Islands: Jersey Busy tone - Congestion tone - Dial tone - Number unobtainable tone -	400	
Busy tone - Congestion tone - Dial tone - Number unobtainable tone -		
Congestion tone - Dial tone - Number unobtainable tone -		0.375 on 0.375 off
Dial tone - Number unobtainable tone -	400	0.4 on 0.35 off 0.225 on 0.525 off
Number unobtainable tone -	350+450	continuous
	400	continuous
	400	0.125 on 0.125 off
Ringing tone -	400+450	0.4 on 0.2 off 0.4 on 2.0 off
Waiting tone -	400	0.1 on 2.5 off 0.1 on
Chile		0.1 01 2.0 01 0.1 01
Busy tone -	400	0.5 on 0.5 off
Congestion tone -	400	0.2 on 0.2 off
Dial tone -	400	continuous
Second dial tone -	330+440	continuous
Identification tone -	800/1200	0.6 on 2.0 off 0.6 on 2.0 off
Payphone recognition tone -	1100+1750/750+1450	0.2 on 0.2 off 0.2 on 2.0 off
Ringing tone -	400	1.0 on 3.0 off
Special information tone -	950/1400/1800	3x0.333 on 1.0 off
Warning tone - end of period	800	2.0 on
Warning tone - operator intervening	1400	0.5 on 15.0 off
Waiting tone -	900+1300	0.5 on 0.5 off
China (People's Republic of)		
Busy tone -	450	0.35 on 0.35 off
Congestion tone -	450	0.7 on 0.7 off
Dial tone -	450	continuous
Second dial tone -	450	continuous
Intrusion tone -	450	0.2 on 0.2 off 0.2 on 0.6 off
Number unobtainable tone -	450	3x(0.1 on 0.1 off) 0.4 on 0.4 off
Ringing tone -	450	1.0 on 4.0 off
Special information tone - I	450	0.4 on 0.04 off
Special information tone - II	950	0.4 on 10.0 off
Waiting tone -	450	0.4 on 4.0 off
Colombia (Republic of)		
Busy tone -	425	0.25 on 0.25 off
Congestion tone -	425	0.10 on 0.25 off 0.35 on 0.25 off 0.65 on 0.25 off
Dial tone -	425	continuous
Number unobtainable tone -	425	0.65 on 0.25 off 0.20 on 0.60 off
Pay tone -	50/12000/16000	0.15 on
Ringing tone -	425	1.0 on 4.5 off
Special information tone -	950/1400/1800	3x0.333 on 1.0 off
Comoros (Union of the)		
Busy tone -	440	0.5 on 0.5 off
Dial tone -	440	continuous
Second dial tone -	330+440	continuous
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	0.5 on 0.5 off
Congestion tone -	400	0.25 on 0.25 off
Dial tone -	400	continuous
Ringing tone -	400+450 400+450	0.4 on 0.2 off 0.5 on
Call waiting tone -	400+430	0.5 01
Costa Rica	450	0.33 on 0.33 off
Busy tone - Congestion tone -	450	0.33 on 0.33 off
Dial tone -	450	continuous
Ringing tone -	450	1.2 on 4.9 off
Warning tone - operator intervening	430	0.17 on 0.17 off 0.5 on 0.17 off
Call waiting tone -	450	0.15 on 0.15 off 0.15 on 8.0 off
Côte d'Ivoire (Republic of)		
Busy tone -	425	0.5 on 0.5 off
Congestion tone -		announcement

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Dial tone -	425	continuous
Second dial tone -	440+330	continuous
Line lock-out tone -	425	0.4 on 0.04 off
Pay tone -	12000	
Ringing tone -	425	1.7 on 3.3 off
Special information tone -		announcement
Call waiting tone - (6)	425	
č (<i>i</i> ,		
Croatia (Republic of)		
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.25 on 0.25 off
Dial tone -	425	0.2 on 0.3 off 0.7 on 0.8 off
Payphone recognition tone -	1206/850	4x(0.2 on 0.2 off 0.2 on 0.2 off)
Ringing tone - Special information tone -	425 950/1400/1800	1.0 on 4.0 off 3x0.333 on 1.0 off
Call waiting tone -	425	0.3 on 8.0 off
-	720	0.0 01 0.0 01
Cuba	405	
Acceptance tone -	425	continuous
Busy tone - Congestion tone -	600x120//620+480//425//400 600x120//425//400	0.5 on 0.5 off 0.25 on 0.25 off
Dial tone - I	600x120//425	continuous
Dial tone - I	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
Ringing tone - II	440+480//440+620//480+620	2.0 on 4.0 off
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	425	0.5 on 0.2 off
Call waiting tone - I	425	0.2 on 0.6 off 0.2 on
Call waiting tone - II	400	0.5 on 0.5 off
Cyprus (Republic of)		
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.25 on 0.25 off
Dial tone - Number unobtainable tone -	350+450 425	continuous 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	3x0.33 on 1.0 off
Warning tone - operator intervening	1400	0.5 on 14.0 off
Call waiting tone -	425	0.1 on 0.1 off 0.1 on 5.0 off
Czech Republic		
Busy tone -	425	0.33 on 0.33 off
Congestion tone -	425	0.165 on 0.165 off
Dial tone -	425	0.33 on 0.33 off 0.66 on 0.66 off
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 -	425	0.33 on 9.0 off
Caller waiting tone -	425	1.00 on 0.17 off 0.33 on 3.50 off
Democratic Republic of the Congo		
Busy tone -	450	0.5 on 0.5 off
Congestion tone -	450	0.5 on 0.5 off
Dial tone -	450	continuous
Ringing tone -	450	2.0 on 4.0 off
Denmark		
Busy tone - I	425	0.25 on 0.25 off
Busy tone - II (1)	425	0.5 on 0.5 off
Congestion tone - I	425	0.25 on 0.25 off
Congestion tone - II (1)	425	0.2 on 0.2 off
Dial tone -	425	continuous
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

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COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Call waiting tone - II (1)	425	0.2 on 0.2 on 0.6 off 0.2 on 3.0 off 0.2 on 0.6 off 0.2 on
Diego Garcia		0.2 011
Busy tone -	480/620	interrupted at 60 ipm
5		interrupted at 60 ipm
Dial tone -	350/440	continuous
Number unobtainable tone -	480/620	interrupted at 120 ipm
Ringing tone -	440/480	1.0 on 3.0 off
Djibouti (Republic of)		
Busy tone -	425	0.5 on 0.5 off
Dial tone -	425	continuous
Ringing tone -	425	1.5 on 3.5 off
Route tone -	425	0.05 on 0.05 off
Dominica (Commonwealth of)		
Busy tone -	480+620	0.5 on 0.5 off
Congestion tone -	480+620	0.25 on 0.25 off
0		
Dial tone -	350+440	continuous
Ringing tone -	440+480	2.0 on 4.0 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Call waiting tone -	440	1x(0.5 on 10.0 off 0.5 on)
Dominican Republic		
	400	0.8 or 0.8 off
Busy tone - I	400	0.8 on 0.8 off
Busy tone - II	400	0.375 on 0.375 off
Congestion tone - I	400	0.8 on 0.8 off
Congestion tone - II	400	0.375 on 0.375 off
Dial tone - I	50	continuous
Dial tone - II	33	0.0166 on 0.0166 off
Number unobtainable tone -	400	continuous
Ringing tone -	400//450	0.4 on 0.2 off 0.4 on 2.2 off
	4007400	0.4 01 0.2 01 0.4 01 2.2 01
Ecuador		
Busy tone -	425	0.33 on 0.33 off
Congestion tone -	425	0.33 on 0.33 off
Dial tone -	425	continuous
Ringing tone -	425	1.2 on 4.65 off
Call waiting tone -	425	0.2 on 0.6 off
Egypt (Arab Republic of)		
Busy tone -	425x50	1.0 on 4.0 off
Congestion tone -	450	0.5 on 0.5 off
Intrusion tone -	450	0.5 on 0.5 off
Payphone recognition tone -	1100+1750/750+1450	0.2 on 0.2 off 0.2 on 2.0 off
Ringing tone -	425x50	2.0 on 1.0 off
Special information tone -	950/1400/1800	0.33 on 0.33 off 0.33 on 0.33 off 0.33 on
		0.33 off
El Salvador (Republic of)		
Busy tone -	425	0.32 on 0.32 off
Congestion tone -	425	0.32 on 0.32 off
5	425	continuous
Dial tone -		
Special dial tone -	425	0.40 on 0.04 off
Intrusion tone -	425	0.20 on 0.20 off 0.50 on 0.20 off
Line lock-out tone -	425	0.167 on 0.167 off 0.500 on 0.167 off
Ringing tone -	425	1.2 on 4.6 off
Special information tone -	950/1400/1800	3x0.33 on 1.00 off
Warning tone -	1400	0.20 on 0.60 off
Call waiting tone -	425	0.35 on 15.0 off
Estonia (Republic of)		
Busy tone -	425	0.3 on 0.3 off
5		
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
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COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Busy tone -	425	0.4 on 0.4 off
Congestion tone -	425	0.4 on 0.4 off
Dial tone -	425	continuous
Special dial tone -	425	0.4 on 0.04 off
Intrusion tone -	425	0.5 on 0.2 off
Line lock-out tone -	425	0.4 on 0.4 off
Refusal tone -	425	0.4 on 0.4 off
Ringing tone -	425	1.0 on 4.0 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Warning tone -	1400	0.5 on 11.5 off
Call waiting tone -	425	0.2 on 0.6 off
Falkland Islands (Malvinas)		
Busy tone -	400	0.375 on 0.375 off
Congestion tone -	400	0.4 on 0.35 off 0.255 on 0.525 off
0		
Dial tone -	350+450	continuous
Number unobtainable tone -	400	continuous
Ringing tone -	400+450	0.4 on 0.2 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Warning tone - operator intervening	1000	0.1 on 0.1 off
Faroe Islands		
Busy tone -	425	0.25 on 0.25 off
Congestion tone -	425	0.25 on 0.25 off
Dial tone -	425	continuous
Number unobtainable tone -	950/1400/1800	3x0.33 on 1.0 off
Ringing tone -	425	1.0 on 4.0 off
Fiji (Republic of)		
Acceptance tone -	425	continuous
Busy tone -	425	0.75 on 0.75 off
Congestion tone -	425	037 on 0.37 off 0.37 on 0.37 off
Dial tone -	400+450	continuous
Second dial tone -	425	continuous
Special dial tone -	400+450	0.40 on 0.04 off
•		
Line lock-out tone -	425	0.2 on 0.6 off 0.2 on 4.0 off
Number unobtainable tone -	400	2.5 on 0.5 off
Offering tone, trunk -	425	0.17 on 0.17 off 0.50 on 0.17 off
Refusal tone -	425	0.24 on 0.76 off
Ringing tone -	425x25	0.4 on 0.2 off 0.4 on 2.0 off
Special ringing tone -	425x25	1.0 on 5.0 off 1.0 on 5.0 off
Special information tone -	925/1400/1800	3x0.38 on 1.00 off
Warning tone -	1400	0.5 on 12.0 off
Finland		
Busy tone -	425	0.3 on 0.3 off
Congestion tone -	425	0.2 on 0.2 off
Dial tone -	425	continuous
Special dial tone -	425	0.65 on 0.025 off
Queue tone -	950/950/1400	0.65 on 0.325 off 0.325 on 1.3 on 2.6 of
Ringing tone – (11)	425	1.0 on 4.0 off
Special information tone -	950/1400/1800	3x0.333 on 1.0 off
Warning tone - operator intervening	425	0.2 on 0.3 off 0.2 on 1.3 off
Call waiting tone -	425	0.15 on 0.15 off 0.15 on 8.0 off
6	720	0.13 01 0.13 01 0.13 01 0.0 01
France		
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
French Departments and Territories		
in the Indian Ocean		
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
French Guiana (French Department		
of)	440	A
Busy tone -		0.5 on 0.5 off

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
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
French Polynesia (Territoire		
français d'outre-mer)		
Acceptance tone -	440	1.7 on 3.3 off
Busy tone -	440	0.5 on 0.5 off
•	440	0.5 on 0.5 off
Congestion tone -		
Dial tone -	440	continuous
Second dial tone -	440+330	continuous
Howler tone -	3000	continuous
Pay tone -	440	continuous
Ringing tone -	440	1.7 on 3.3 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
	440	1.7 on 3.3 off
Call waiting tone -	440	1.7 01 5.5 01
Gabonese Republic		
Busy tone -	440	0.5 on 0.5 off
Congestion tone -	440	0.5 on 0.5 off
Dial tone -	440	
		continuous
Ringing tone -	440	1.7 on 3.3 off
Special information tone -	950/1400/1800	0.30 on 0.33 off
Call waiting tone -	1800	0.5 on 2.5 off
Gambia (Republic of the)		
	425	0 = 0 = 0
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.5 on 0.5 off
Dial tone -	425	continuous
Ringing tone -	425	1.0 on 4.0 off
Special information tone -	1400	0.330 on 0.030 off
Call waiting tone -	950	0.330 on 0.030 off
Ū		
Georgia		
Busy tone -	425	1.0 on 3.0 off
Congestion tone -	425	1.0 on 1.0 off
-		
Dial tone -	425	continuous
Ringing tone -	25	1.0 on 4.0 off
Call waiting tone -	425	0.125 on
Germany (Federal Republic of)		
	405	0.40 0.40
Busy tone -	425	0.48 on 0.48 off
Congestion tone -	425	0.24 on 0.24 off
Dial tone -	425	continuous
Special dial tone -	425+400	continuous
Payphone recognition tone -	1633/1336	5x(0.2 on 0.2 off 0.2 on 2.0 off)
Ringing tone -	425	1.0 on 4.0 off
Special information tone -	900/1400/1800	3x0.33 on 1.0 off
Warning tone - operator intervening	425	0.24 on 0.24 off 0.24 on 1.28 off
Call waiting tone - (2)	425	0.2 on 0.2 off 0.2 on 5.0 off
Ghana		
	100	
Busy tone -	400	0.25 on 0.25 off
Congestion tone -	400	0.5 on 0.5 off
Dial tone -	400	continuous
Holding tone -	400	0.5 on 0.5 off 0.5 on 0.25 off
Number unobtainable tone -	400	0.075 on 0.1 off 0.075 on 0.1 off 0.075 o
		0.4 off
Ringing tone -	400	1.0 on 4.0 off
• •	400	0.5 on 0.3 on 0.2 off 0.3 on 0.2 off 3.0 of
Waiting tone -		0.5 01 0.5 01 0.2 01 0.3 01 0.2 01 3.0 01
Gibraltar		
Busy tone -	400	0.375 on 0.375 off
Congestion tone -	400	0.4 on 0.35 off 0.225 on 0.525 off
÷		
Dial tone -	350+400	continuous
Number unobtainable tone -	400	continuous
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		
	425	0.3 on 0.3 off
Busy tone - Congestion tone -	425	0.15 on 0.15 off

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Special dial tone -	400/425//425/450	0.2 on 0.3 off 0.7 on 0.8 off
Holding tone -	900	0.5 on 0.5 off
Intrusion tone -	425	0.15 on 0.25 off 0.15 on 1.45 off
Ringing tone -	425	1.0 on 4.0 off
Special information tone -	950/1450/1800	3x0.33 on 1.0 off
Call waiting tone -	425	0.3 on 10.0 off 0.3 on 10.0 off
Greenland (Denmark)		
. ,	445/405	0.05 an 0.05 aff
Busy tone -	445//425	0.25 on 0.25 off
Congestion tone -	445//425	0.25 on 0.25 off
Dial tone -	445//425	continuous
Second dial tone -	445//425	continuous
Number unobtainable tone - I	950/1400/1800	3x0.33 on 1.0 off
Number unobtainable tone - II	425	0.25 on 0.25 off
Pay tone -	950/1400/1800	3x0.22 on 1.0 off
Ringing tone -	445//425	1.0 on 4.0 off
Grenada		
Busy tone -	460+620	0.5 on 0.5 off
Congestion tone -	100 020	announcement
-	440 - 400	
Ringing tone -	440+480	2.0 on 4.0 off
Guadeloupe (French Department	of)	
Busy tone -	440	0.5 on 0.5 off
Dial tone -	440	continuous
Ringing tone -	440	1.5 on 3.5 off
Special information tone -	950/1400/1800	3x(0.3 on 0.03 off) 1.0 off
Call waiting tone -	440	0.3 on 10.0 off
Guinea (Republic of)		
Busy tone -	450	0.2 on 0.2 off
Ringing tone -	450	0.4 on 0.2 off
Guyana		
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.5 on 0.5 off
Dial tone -	360/400	1.3 on 0.3 off 0.2 on 0.5 off
Ringing tone -	425	1.75 on 3.25 off
Waiting tone -	480	0.5 on 18.0 off
Honduras (Republic of)		
Busy tone -	440	0.5 on 0.5 off
Congestion tone -	440	0.25 on 0.25 off
Dial tone -	440	continuous
Ringing tone -	440	1.0 on 4.0 off
Call waiting tone -	440	0.5 on 0.5 off 2.0 on 4.0 off
		0.0 01 0.0 01 2.0 01 4.0 01
Hong Kong, China		
Busy tone -	480+620	0.5 on 0.5 off
Congestion tone -	480+620	0.25 on 0.25 off
Dial tone -	350+440	continuous
Number unobtainable tone -	480+620	continuous
Ringing tone -	440+480	0.4 on 0.2 off 0.4 on 3.0 off
Hungary (Republic of)		
	405	0.0 0.0 #
Busy tone -	425	0.3 on 0.3 off
Congestion tone -	425	0.3 on 0.3 off
Dial tone -	425	continuous
Second dial tone -	425+450	continuous
Special dial tone -	350+375+400	continuous
Negative indication tone -	300+425	0.2 on 0.2 off 0.2 on 0.2 off 0.2 on 0.2 off
0	105	announcement
Offering tone, trunk -	425	0.3 on 0.3 off 0.3 on 1.5 off
Pay tone -	600//1100	(3 or 5)(0.15 on 0.15 off)
Positive indication tone -	300+425	1.0 on 0.2 off + announcement
Payphone recognition tone -	1100+1750//750+1450	0.2 on 0.2 off 0.2 on 2.0 off
Ringing tone -	425	1.25 on 3.75 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Warning tone -	425	0.3 on 0.3 off 0.3 on 1.5 off
Call waiting tone -	425	0.04 on 1.96 off
Iceland		
Busy tone -	425	0.25 on 0.25 off

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Congestion tone -	425	0.25 on 0.25 off
Dial tone -	425	continuous
Special dial tone - (7)	425	0.4 on 0.04 off
Number unobtainable tone -		announcement
Develope recognition tops	1622/1200	0.2 on 0.2 off 0.2 on 2.0 off
Payphone recognition tone -	1633/1209	
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.
		off 0.2 on)
India (Republic of)		
Acceptance tone -	400	1.0 on 4.0 off
Busy tone -	400	0.75 on 0.75 off
Congestion tone -	400	0.25 on 0.25 off
	400 400x25	
Dial tone -		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
Indonesia (Republic of)		
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.25 on 0.25 off
Dial tone -	425	continuous
Payphone recognition tone -	1200/800	0.2 on 0.2 off 0.2 on 0.2 off
Ringing tone -	425	1.0 on 4.0 off
	950/1400/1800	
Special information tone -		3x(0.33 on 0.03 off) 1.0 off
Call waiting tone -	425	0.15 on 0.15 off 0.15 on 10.0 off
Iran (Islamic Republic of)		
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.25 on 0.25 off
Dial tone -	425	continuous
Offering tone, trunk -	425	0.2 on 0.2 off 0.2 on 1.4 off
Preemption tone -	1400	3x(0.1 on) 0.1 off
•		. ,
Ringing tone -	425	1.0 on 4.0 off
Re-order tone -	425	0.25 on 0.25 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Test number tone -	800	continuous
Call waiting tone -	425	0.2 on 0.2 off 0.2 on 10.0 off
Iraq (Republic of)		
Busy tone -	400	1.0 on 1.0 off
5	133	0.4 on 0.2 off 0.4 on 1.5 off
Recall dial tone -		
Ringing tone -	400	continuous
Ireland		
Busy tone -	425	0.5 on 0.5 off
Dial tone -	400//425//450	continuous
Pay tone -	12000	0.12 on
Ringing tone -	400+450//425	0.4 on 0.2 off 0.4 on 2.0 off
Route tone -	425	0.06 on 0.06 off
Special information tone - Call waiting tone -	950/1400/1800 425	3x0.33 on 1.0 off 0.18 on 0.20 off 0.20 on 4.50 off
-	720	0.10 00 0.20 00 0.20 00 4.50 00
Israel (State of)	100	
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
		0.18 on
Pay tone -	16000	0.18 011
Pay tone - Payphone recognition tone -	16000 1209/852	5x(0.2 on 0.2 off 0.2 on 2.0 off)

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Search tone - mobile	1004	0.01 on 1.0 off
Special information tone -	1000/1400/1800	3x0.333 on 1.0 off + announcement
Waiting tone - message	400	10x(0.16 on 0.16 off) + continuous
Call waiting tone -	400	1x(0.5 on 10.0 off 0.5 on)
Caller waiting tone -	400	2x(0.1 on 0.1 off) 0.6 on 3.0 off
Italy		· · · · · ·
-	405	
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.2 on 0.2 off
Dial tone -	425	0.2 on 0.2 off 0.6 on 1.0 off
Special dial tone -	425	continuous
Ringing tone -	425	1.0 on 4.0 off
Special information tone -		announcement
Call waiting tone - (4)	425	0.40 on 0.10 off 0.25 on 0.10 off 0.15 on
Jamaica		
Busy tone -	480+620	0.5 on 0.5 off
5		
Congestion tone -	480+620	0.25 on 0.25 off
Dial tone -	350+440	continuous
Ringing tone -	440+480	2.0 on 4.0 off
Call waiting tone -	440	0.25 on 0.25 off
Japan		
Busy tone - (3)	400	0.5 on 0.5 off
Dial tone - I	400	continuous
Dial tone - II, pabx	400	0.25 on 0.25 off
Dial tone - III	400	0.125 on 0.125 off 0.125 on 0.125 off
		0.125 on 0.125 off 0.125 off 0.125 off 0.125 off 0.
		on 0.25 off
Second dial tone (2)	400	0.125~0.15 on 0.1~0.125 off
Second dial tone - (3)		
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
	400×10/400	3.45 off
	400-40/400	
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
		0.45 off 0.05 on 0.45 off 0.05 on 2.45 off
Jordan (Hashemite Kingdom of)		
Busy tone -	420x40	0.5 on 0.5 off
Congestion tone -	420x40	0.25 on 0.25 off
Dial tone -	420x40	continuous
Holding tone -	420x40	0.5 on 8.0 off
Howler tone -	950	continuous
Intrusion tone -	420x40	0.2 on 0.2 off 0.2 on 1.3 off
Number unobtainable tone -	420x40	0.12 on 0.12 off
Ringing tone -	420x40	1.0 on 4.0 off
Special information tone -	(950/1400/1800)x40	1.0 on 1.0 off
Call waiting tone -	420x40	0.15 on 0.15 off
Kenya (Republic of)		
Busy tone -	425	0.2 on 0.6 off 0.2 on 0.6 off
Congestion tone -	425	0.2 on 0.6 off
0		
Dial tone -	425	continuous
Pay tone - I	941	0.2 on 0.2 off
Pay tone - II	800/1600	0.08 on 0.08 off
Payphone recognition tone -	1633	0.08 on 1.5 off
Ringing tone -	425	0.67 on 3.0 off 1.5 on 5.0 off
Special information tone -	900/1400/1800	3x0.75 on 1.25 off
Warning tone - operator intervening	425	0.2 on 0.2 off
Call waiting tone -	425	
	420	continuous
Ū		
Kiribati (Republic of)	425	0 375 on 0 375 off
Kiribati (Republic of) Busy tone -	425	0.375 on 0.375 off
Kiribati (Republic of)	425 425	0.375 on 0.375 off 0.375 on 0.375 off

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Number unobtainable tone -	425	2.5 on 0.5 off
Ringing tone -	425	0.4 on 0.2 off 0.4 on 2.0 off
Call waiting tone -	425	0.1 on 0.2 off 0.1 on 4.7 off
Korea (Republic of)		
· · /	490,620	
Busy tone -	480+620	0.5 on 0.5 off
Congestion tone -	480+620	0.3 on 0.2 off
Dial tone -	350+440	continuous
Recall dial tone - I	400//450	1.0 on 4.0 off
Recall dial tone - II	400//450	1.0 on 2.0 off
Intercept tone -	350+440	0.125 on 0.25 off 0.125 on 1.5 off
Number unobtainable tone -	450	0.2 on 0.1 off 0.2 on 1.5 off
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)		
. ,	405	
Acceptance tone -	425	continuous
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.25 on 0.25 off
Dial tone -	425	continuous
Second dial tone -	425	continuous
Special dial tone -	425	0.40 on 0.04 off
Line lock-out tone -	425	0.32 on 0.32 off
Refusal tone -	425	0.1 on 0.4 off
Ringing tone -	425	1.0 on 4.0 off
Route tone -	425	0.1 on 0.1 off
Special information tone -	950/1400/1800	3x0.33 on 1.00 off
Warning tone -	425	0.34 on 5.0 off
-	425	1.0 on 4.0 off
Call waiting tone -	723	
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
	425	
Special dial tone -		1.0 on 0.2 off
Howler tone -	1000	
Negative indication tone -	425	1x(0.2 on 0.2 off 0.2 on 0.2 off 0.2 on)
Number unobtainable tone -	950/1400/1800	3x0.33 on 1.0 off
Positive indication tone -	425	1x(0.2 on)
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		
•	405	10 on 10 off
Busy tone -	425	1.0 on 1.0 off
Confirmation tone -	950	continuous
Congestion tone -	425	0.375 on 0.375 off
Dial tone -	425	continuous
Special dial tone -	425	0.4 on 0.04 off
Number unobtainable tone -	425	2.5 on 0.5 off
Ringing tone -	425	1.0 on 4.0 off
Waiting tone -	425	0.4 on 0.4 off
-		
Latvia (Republic of)	405	0.2 on 0.2 off
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
	425	0.2 on 5.0 off
Call waiting tone -	723	0.2 01 3.0 01
Lebanon		
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.24 on 0.24 off
U		
Dial tone -	425	continuous

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
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
_esotho (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
Special information tone - II	900/1400/1800	3x0.3 on 1.0 off
Call waiting tone - I	425	1.0 on 3.0 off
Call waiting tone - II	425	0.15 on 0.15 off
Liberia (Republic of)		
Busy tone -	425	0.5 on 0.5 off
Dial tone -	425	continuous
Number unobtainable tone -	425	0.6 on 0.2 off 3x(0.2 on 0.2 off)
Ringing tone -	425//450	1.0 on 4.0 off
	-2011-00	
Liechtenstein (Principality of)		
Busy tone - I	425	0.3 on 0.3 off
Busy tone - II	420	0.4 on 0.4 off
Busy tone - III	400	0.36 on 0.36 off
Busy tone - IV	425	0.5 on 0.5 off
Congestion tone -	425//420	0.2 on 0.2 off
Dial tone -	420	continuous
Recall dial tone -	420	continuous
Special dial tone -	380+420	continuous
Negative indication tone -	380+420	0.4 on 0.4 off
Number unobtainable tone -	950/1400/1800	3x0.33 on 1.0 off
Pay tone - I	1336/1633	0.2 on 0.2 off 0.2 on 0.2 off
Pay tone - II	800	0.2 on 0.2 off
Pay tone - III	1200	0.2 on 2.0 off
Positive indication tone -	380+420	1.0 on 5.0 off
Ringing tone - I	425	continuous
Ringing tone - II	420	1.0 on 5.0 off
Ringing tone - III	400//425	1.0 on 4.0 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Warning tone -	420	0.15 on 0.15 off 0.15 on 1.95 off
Call waiting tone - I	425	0.15 on 8.0 off
Call waiting tone - II	420	0.04 on 1.95 off
Call waiting tone - III	425	0.2 on 0.2 off 0.2 on 4.0 off
Lithuania (Republic of)		
Busy tone -	425	0.35 on 0.35 off
Congestion tone -	425	0.2 on 0.2 off
-		
Dial tone -	425 425	continuous 1.0 on 4.0 off
Ringing tone - Special information tone -	425 950/1400/1800	1.0 on 4.0 oπ 3x0.33 on 1.0 off
	950/1400/1800 425	0.15 on 0.15 off 0.15 on 4.0 off
Call waiting tone - I Call waiting tone - II	425 425	0.15 on 0.15 on 0.15 on 4.0 off 0.2 on 5.0 off
-	420	0.2 011 3.0 011
Luxembourg		
Busy tone -	425//2125	0.48 on 0.48 off
Congestion tone -	425//2125	0.24 on 0.24 off
Dial tone -	425//2125	continuous
Special dial tone -	400//425	continuous
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 -	1000	continuous
Call waiting tone -	425	continuous
C C		
Macao, China	405	
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.25 on 0.25 off
Dial tone -	425	continuous
Special dial tone -	425	1.8 on 0.2 off
Payphone recognition tone -	1100+1750/750+1450	0.2 on 0.2 off 0.2 on 0.2 off

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Ringing tone -	425	1.0 on 4.0 off
Special information tone -	950/1400/1800	3x0.333 on 1.0 off
Call waiting tone -	425	0.2 on 0.6 off
Madagascar (Republic of)		
Busy tone -	440//425	0.5 on 0.5 off
Congestion tone -	420	announcement
•	440//495	
Dial tone -	440//425	continuous
Special dial tone -	330+440	continuous
Facilities tone -	950	continuous
Pay tone -		announcement
Ringing tone -	440//425	1.7 on 3.3 off
Route tone -	440//425	0.05 on 0.05 off
Special information tone -	440	0.40 on 0.04 off
Call waiting tone -	440	0.1 on 1.9 off
Malawi		
	425	0.5 on 0.5 off
Busy tone - Dial tone -	425	continuous
Intrusion tone - (4)	1400 1100+1750/750+1450	0.35 on 0.5 off
Payphone recognition tone -	1100+1750/750+1450	2x(0.2 on 0.2 off)
Ringing tone -	425	1.0 on 4.0 off
Special ringing tone -	425	1.0 on 4.0 off
Special information tone -	950/1400/1800	3x0.3 on 1.0 off
Malaysia		
Busy tone -	425	0.5 on 0.5 off
Congestion tone - I	425	0.50 on 0.25 off
Congestion tone - II	425	0.5 on 0.5 off
Dial tone -	425	continuous
Ringing tone - I	425	0.4 on 0.2 off 0.4 on 2.0 off
Ringing tone - II	425	1.0 on 3.0 off 1.0 on 5.0 off
Maldives (Republic of)		
Busy tone -	400	0.5 on 0.5 off
Congestion tone -	400	0.25 on 0.25 off
Dial tone -	400/50	continuous
Ringing tone -	400	0.4 on 0.2 off 0.4 on 2.0 off
Call waiting tone -	400	0.2 on 0.6 off 0.2 on 4.0 off
Mali (Republic of)		
Busy tone -	425	0.5 on 0.5 off
Congestion tone -		announcement
Dial tone -	425	continuous
Pay tone -		announcement
Ringing tone -	425	1.5 on 3.0 off
Route tone -	425	0.05 on 0.05 off
Special information tone -	900/1400/1800	0.35 on 0.30 on 0.35 on 1.0 off
Call waiting tone -	425	0.3 on 10.0 off
Malta		
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.5 on 0.5 off
Dial tone -	425	0.2 on 0.2 off 0.6 on 1.0 off
Special dial tone -	425	0.4 on 0.04 off
Intercept tone -	950/1400/1800	3x0.24 on 1.0 off
Ringing tone -	425	1.0 on 4.0 off
Special information tone -		announcement
•	1400	
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
•	425	continuous
Dial tone - Ringing tone -	425 425	continuous 1.5 on 3.5 off

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COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Route tone -	425	0.05 on 0.05 off
Mauritius (Republic of)		
Busy tone -	425	0.75 on 0.75 off
Dial tone -	425	continuous
Special dial tone -	425	0.4 on 0.04 off
Ringing tone -	425	1.0 on 4.0 off
Route tone -	425	0.05 on 0.05 off
Call waiting tone -	425	1.0 on 3.0 off
Mayotte		
Busy tone -	440	0.5 on 0.5 off
Dial tone -	440	continuous
Ringing tone -	440	1.5 on 3.5 off
Special information tone -	950/1400/1800	3x(0.3 on 0.03 off) 1.0 off
Call waiting tone -	440	0.3 on 10.0 off
Mexico		
Busy tone -	425	0.25 on 0.25 off
Congestion tone -	425	0.25 on 0.25 off
Dial tone -	425	continuous
Ringing tone -	425	1.0 on 4.0 off
Warning tone - operator intervening	425	0.5 on 0.17 off 0.17 on 0.17 off
Moldova (Republic of)		
,	425	0.35 on 0.35 off
Busy tone - Congestion tone -	425 425	0.35 on 0.35 off
Dial tone -	425 425	continuous
Pay tone -	425 1400	3x1.0 on 1.0 off
Ringing tone - I	425	0.8 on 3.2 off
Ringing tone - II	425	1.0 on 4.0 off
Special information tone -	950/1400/1800	3x0.33 on 1.00 off
Call waiting tone -	425	0.2 on 5.0 off
Monaco (Principality of)		
Busy tone -	440	0.5 on 0.5 off
Congestion tone -		announcement
Dial tone -	440	continuous
Ringing tone -	440	1.7 on 3.3 off
Call waiting tone -	440	0.3 on 10.0 off
-		
Montserrat	100:000	
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
Number unobtainable tone -	480+620	0.25 on 0.25 off
Payphone recognition tone -	1600/1143	0.2 on 0.2 off 0.2 on 2.0 off
Ringing tone -	440+480	2.0 on 4.0 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Warning tone - operator intervening	450	0.2 on 0.2 off 0.65 on 0.2 off
Waiting tone -	440	1x(0.5 on 10.0 off 0.5 on)
Morocco (Kingdom of)		
Busy tone - I	425	0.5 on 0.5 off
Busy tone - II	425	0.4 on 0.4 off
Congestion tone - I	425	0.5 on 0.5 off
Congestion tone - II	425	0.4 on 0.4 off
Dial tone -	425	continuous
Ringing tone - I	425	1.7 on 3.3 off
Ringing tone - II	425	1.0 on 4.0 off
Ringing tone - III	425	2.0 on 2.0 off
Mozambique (Republic of)		
Busy tone -	400	0.5 on O.5 off
Number unobtainable tone -	400	0.2 on 0.2 off
Ringing tone -	400	1.0 on 5.0 off
0.0		
Myanmar (Union of)	450	0.05 0.05 %
Busy tone -	450	0.25 on 0.25 off
Congestion tone -	480	0.5 on 0.5 off
Dial tone - Ringing tone -	400+450	continuous 2.0 on 4.0 off
	400	

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Call waiting tone -	400	0.3 on 10.0 off
Namibia (Republic of)		
Busy tone -	400	0.5 on 0.5 off
Congestion tone -	400	0.25 on 0.25 off
Dial tone -	400x33	continuous
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)		
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 Number unobtainable tone -	33 400	continuous 0.75 on 0.25 off 0.25 on 0.25 off
Ringing tone -	400	1.0 on 4.0 off
Ringing tone - pabx	400 425x25	0.4 on 0.2 off 0.4 on 2.0 off
	420720	0.4 01 0.2 01 0.4 01 2.0 01
Nepal (Federal Democratic Repub	lic	
of) Busy tone -	425	0.25 on 0.25 off
Congestion tone -	425	0.175 on 0.175 off
Dial tone -	425	continuous
Number unobtainable tone -	425	0.25 on 0.5 off
Ringing tone -	425	1.1 on 3.1 off
Netherlands (Kingdom of the)		
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.25 on 0.25 off
Dial tone -	425	continuous
Special dial tone -	425	0.5 on 0.05 off
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	5	
d'outre-mer)	440	0.5 0.5 <i>(</i>
Busy tone -	440	0.5 on 0.5 off
Congestion tone -	950/1400/1800	2x[3x0.33 on + announcement]
Dial tone -	440//330+440 440	continuous
Ringing tone - Special information tone -	950/1400/1800	1.7 on 3.3 off 2x[3x0.33 on + announcement]
Call waiting tone -	440	4x(0.5 on 0.5 off 0.5 on)
Ū	440	47(0.0 01 0.0 01 0.0 01)
New Zealand	100	0.5 0.5
Busy tone - Congestion tone -	400 400	0.5 on 0.5 off 0.25 on 0.25 off
Dial tone - I (3)	400	continuous
Dial tone - II (message waiting)	400	12x(0.1 on 0.1 off) + continuous
Recall dial tone -	400	3x(0.1 on 0.1 off) + continuous
Holding tone -	400+450	0.5 on 0.5 off 0.5 on 2.5 off
Number unobtainable tone -	400	3x(0.75 on 0.1 off) 0.75 on 0.4 off
Pay tone -	1209/852	0.2 on 0.2 off
Ringing tone - I	400+450	0.4 on 0.2 off 0.4 on 2.0 off
Ringing tone - II (call waiting)	400+450	0.4 on 0.2 off 0.4 on 0.2 off 0.4 on 1.2 off
Call waiting tone - I	400	3x(0.2 on 3.0 off) 0.2 on
Call waiting tone - II	400	3x(0.1 on 0.1 off 0.1 on 3.0 off)
Call waiting tone - III	400	3x(0.1 on 0.1 off 0.1 on 0.1 off 0.1 on 3.0 off)
Niger (Republic of the)		,
••••	440	0.5 on 0.5 off
Busy tone - Congestion tone -	440 440	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)		

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Busy tone -	400	0.5 on 0.5 off
Congestion tone -	400	0.25 on 0.25 off
Dial tone -	400//450	continuous
Recall dial tone -	400//425	continuous
Special dial tone -	425	0.5 on 0.5 off
Holding tone -	950/950/1400	0.65 on 0.325 off 0.325 on 1.3 on 2.6 off
Number unobtainable tone -	450	0.5 on 0.5 off
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	400	0.15 on 0.25 off 0.15 on 1.45 off
Call waiting tone -	400	0.2 on 0.2 off
Norway		
Busy tone -	425	0.5 on 0.5 off
Confirmation tone - (10)	470/425	continuous
Congestion tone -	425	0.2 on 0.2 off
Dial tone -	425	continuous
Special dial tone - (10)	470/425	continuous
ntrusion 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
Narning tone - II	1400	1x(0.4 on)
Call waiting tone -	425	0.2 on 0.6 off 0.2 on 10.0 off
Oman (Sultanate of)		
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.5 on 0.5 off
Dial tone -	425	continuous
ntrusion 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
	950/1400/1800	3x0.33 on 1.0 off
Special information tone - Call waiting tone -	425	0.3 on 1.0 off
Pakistan (Islamic Republic of)	723	0.5 01 1.0 01
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
Congestion tone -	425	0.32 on 0.32 off
Dial tone -	425	continuous
Number unobtainable tone -	425	0.18 on 0.18 off 0.5 on 0.18 off
Ringing tone -	425	1.2 on 4.65 off
Special information tone -	425	0.4 on 0.4 off
Warning tone - operator intervening	425	0.18 on 0.18 off 0.5 on 0.18 off
Call waiting tone -	425	0.18 on 0.18 off 0.18 on
C C	425	0.18 01 0.18 01 0.18 01
Papua New Guinea	405//400	0.075 an 0.075 aff
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
Narning tone - operator intervening	1400	0.5 on 11.5 off
o , o		
Waiting tone -	425	0.04 on 10.0 off 0.04 on 20.0 off 0.04 on 20.0 off
Paraguay (Republic of)		
Busy tone -	425	0.5 on 0.5 off
	425	
Congestion tone -		0.25 on 0.25 off
	425	continuous
Intrusion tone -	425	0.15 on 0.25 off 0.15 on 1.45 off
ntrusion tone - Number unobtainable tone -	425 425	2.0 on 0.25 off
Dial tone - Intrusion tone - Number unobtainable tone - Ringing tone -	425	

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Call waiting tone -	425	0.3 on 10.0 off
Caller waiting tone -	950/950/1400	0.65 on 0.325 off 0.325 on 1.3 off 2.6 on
Peru		
Acceptance tone -		announcement
•	425	0.5 on 0.5 off
Busy tone -	425	0.2 on 0.2 off 0.2 on 0.2 off 0.2 on 0.6 of
Congestion tone - Dial tone -	425	continuous
Special dial tone -	425	1.0 on 0.1 off
Howler tone -	1500+3200	0.5 on
Number unobtainable tone -	130013200	announcement
Refusal tone -		announcement
Ringing tone -	425	0.15 on 0.30 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Call waiting tone -	425	0.175 on 0.175 off 0.175 on 3.5 off
Philippines (Republic of the)		
Busy tone -	480+620	0.5 on 0.5 off
Congestion tone -	480+620	0.25 on 0.25 off
Conference tone -	440	0.2 on 15.0 off
Dial tone -	425	continuous
Special dial tone -	400+25	continuous
Holding tone -	950/950/1400	0.65 on 0.325 off 0.325 on 1.3 on 2.0 off
Howler tone -	1400+1800	0.2 on 0.3 off
Number unobtainable tone -	600x120	0.25 on 0.25 off
Ringing tone -	425+480	1.0 on 4.0 off
Call waiting tone -	440	0.3 on 10.0 off
Poland (Republic of)		
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.5 on 0.5 off
Dial tone -	425	continuous
Second dial tone -	425+350	continuous
Ringing tone -	425	1.0 on 4.0 off
Route tone -	425	0.05 on 0.05 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Waiting tone -	425	0.15 on 0.15 off 0.15 on 4.0 off
Portugal		
Acceptance tone - I	425	1.0 on 0.2 off
Acceptance tone - II	425	1.0 on 1.0 off 1.0 on 5.0 off
Busy tone - I	425	0.5 on 0.5 off
Busy tone - II (mobile)	400	0.36 on 0.36 off
Congestion tone -	425	0.2 on 0.2 off
Dial tone -	425	continuous
Special dial tone - (mobile)	425	1.0 on 0.2 off
Holding tone -	425	1.5 on 5.12 off
Intrusion tone -	425	3x(0.2 on 1.4 off)
Refusal tone - I	450/1400/1800	3x0.33 on 1.0 off
Refusal tone - II	950/1400/1800	3x0.33 on 1.0 off
Ringing tone - I	425	1.0 on 5.0 off
Ringing tone - II (two party mobiles)	440	1.0 on 4.0 off
Ringing tone - III (three party mobiles)	425	1.5 on 3.5 off
Ringing tone - IV	425	1.0 on 1.0 off 1.0 on 5.0 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Call waiting tone - I	425	0.2 on 0.2 off 0.2 on 5.0 off
Call waiting tone - II	425	0.2 on 0.6 off 0.2 on 3.0 off
Call waiting tone - III	425	0.2 on 0.2 off 0.2 on 10.0 off
Call waiting tone - IV	425	0.2 on 0.6 off 0.2 on 0.6 off
Call waiting tone - V	425	0.2 on 1.0 off 0.2 on 3.0 off
Call waiting tone - VI	425	1.0 on 1.0 off 1.0 on 5.0 off
Puerto Rico		
Payphone recognition tone -	1100+1750/750+1450	0.2 on 0.2 off 0.2 on 2.0 off
Qatar (State of)		
	400+450	0 38 on 0 25 off 0 38 on 2 00 off
Acceptance tone -	400+450 400+450	0.38 on 0.25 off 0.38 on 2.00 off 0.8 on 0.8 off
Acceptance tone - Busy tone - I	400+450	0.8 on 0.8 off
Qatar (State of) Acceptance tone - Busy tone - I Busy tone - II Busy tone - III		

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COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Congestion tone -	400	0.40 on 0.35 off 0.22 on 0.52 off
Dial tone -	350+440	continuous
Line lock-out tone - Number unobtainable tone -	400 400	0.32 on 0.32 off continuous
Refusal tone -	400	continuous
Ringing tone - I	400+450	0.38 on 0.25 off 0.38 on 2.0 off
Ringing tone - II	400+450	0.4 on 0.2 off 0.4 on 2.0 off
Special information tone -	330+440	1.0 on 1.0 off
Call waiting tone -	400	0.3 on 10.0 off
Romania		
Busy tone - I (analogue)	450	0.15 on 0.18 off
Busy tone - II (digital)	450	0.17 on 0.17 off
Dial tone -	450	continuous
Number unobtainable tone - I	450	6x(0.11 on 0.092 off) 0.362 on 0.11 c
(analogue)		
Number unobtainable tone - II (digital)	450	3x(0.092 on 0.11 off) 0.362 on 0.11 off
Ringing tone - I	450x25	1.85 on 4.15 off
Ringing tone - II	450	1.5 on 4.5 off
Russian Federation		
Busy tone -	425	0.4 on 0.4 off
Ringing tone -	425	0.8 on 3.2 off
Waiting tone -	950/1400/1800	3x0.333 on 1.0 off
Rwanda (Republic of)		
Busy tone -	440	0.5 on 0.5 off
Congestion tone -		announcement
Dial tone -	440	continuous
Second dial tone -	340	continuous
Pay tone -	12000	0.125 on
Ringing tone -	440	1.7 on 3.3 off
Route tone -	440	0.05 on 0.05 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Saint Helena		
Busy tone -	400	0.375 on 0.375 off
Congestion tone -	400	0.4 on 0.35 off
Dial tone -	350+400	continuous
Number unobtainable tone -	400	continuous
Pay tone -	400	0.125 on 0.125 off
Ringing tone -	400+450	0.4 on 0.2 off
Saint Kitts and Nevis		
Busy tone -	480+620	0.5 on 0.5 off
Congestion tone -	480+620	0.25 on 0.25 off
Dial tone -	350+440	continuous
Recall dial tone -	350+440	3x(0.1 on 0.1 off) + continuous
Number unobtainable tone -	480+620	0.25 on 0.25 off
Payphone recognition tone -	1600/1143	0.2 on 0.2 off 0.2 on 2.0 off
Ringing tone -	440+480	2.0 on 4.0 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Warning tone - operator intervening Waiting tone -	450 440	0.2 on 0.2 off 0.65 on 0.2 off 1x(0.5 on 10.0 off 0.5 on)
Ū	440	
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 - Saint Pierre and Miquelon (Collectivité territoriale de la	425	0.2 on 0.2 off 0.2 on 4.0 off
République française)	440	0.5 on 0.5 off
République française) Busy tone -	440	0.0 011 0.0 011
	440 440	continuous
Busy tone -		

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Call waiting tone -	440	0.3 on 10.0 off
Saint Vincent and the Grenadines		<i></i>
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)		
Busy tone -	425	0.2 on 0.2 off
Dial tone -	425	0.6 on 1.0 off 0.2 on 0.2 off
Ringing tone -	425	1.0 on 4.0 off
0.0		1.0 01 4.0 01
Sao Tome and Principe (Democra	tic	
Republic of)	400	0.5 on 0.5 off
Busy tone -	400	
Congestion tone -	400	0.2 on 0.2 off
Dial tone -	425	continuous
Pay tone -	12000	continuous
Ringing tone -	400	1.0 on 5.0 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Call waiting tone -	425	0.2 on 1.0 off
Saudi Arabia (Kingdom of)		
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.25 on 0.25 off
Conference tone -	425	0.5 on 2.0 off 0.5 on 15.0 off
Dial tone -	425	continuous
Payphone recognition tone -	1600/1200	0.2 on 0.2 off 0.2 on 4.0 off
Ringing tone -	425	1.2 on 4.6 off
Call waiting tone -	425	0.15 on 0.2 off 0.15 on 10.0 off
Senegal (Republic of)		
Busy tone -	440	0.5 on 0.5 off
Dial tone -	440	continuous
Ringing tone -	400	1.7 on 3.3 off
Special information tone -	900/1380/1860	0.35 on 0.30 on 0.35 on
Special information tone -	900/1380/1800	0.55 01 0.55 01 0.55 01
Serbia (Republic of)		
Busy tone -	425	0.5 on 0.5 off
Busy tone - II	425	0.2 on 0.4 off
Dial tone -	425	0.7 on 0.8 off 0.2 on 0.3 off
Ringing tone - I	450x25	1.0 on 9.0 off
Ringing tone - II	425	1.0 on 4.0 off
Special information tone -	950/1400/1800	3x0.333 on 1.0 off
•	000/1400/1000	
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
	2000	continuous
Howler tone -	3000	
	425	continuous
Howler tone -		continuous 0.4 on 0.2 off 0.4 on 2.0 off
Howler tone - Number unobtainable tone -	425	
Howler tone - Number unobtainable tone - Ringing tone - Route tone -	425 425	0.4 on 0.2 off 0.4 on 2.0 off
Howler tone - Number unobtainable tone - Ringing tone - Route tone - Sierra Leone	425 425 425	0.4 on 0.2 off 0.4 on 2.0 off 0.5 on 0.5 off
Howler tone - Number unobtainable tone - Ringing tone - Route tone - Sierra Leone Busy tone -	425 425 425 425//450	0.4 on 0.2 off 0.4 on 2.0 off 0.5 on 0.5 off 0.5 on 0.5 off
Howler tone - Number unobtainable tone - Ringing tone - Route tone - Sierra Leone	425 425 425	0.4 on 0.2 off 0.4 on 2.0 off 0.5 on 0.5 off

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
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)
Singanara (Banublia of)		
Singapore (Republic of)	405	0.405 0.405 %
Acceptance tone -	425	0.125 on 0.125 off
Busy tone -	425	0.75 on 0.75 off
Congestion tone -	425	0.25 on 0.25 off
Dial tone -	425	continuous
Second dial tone -	425	4x(0.2 on 0.2 off 0.6 on 0.2 off) + continuous
Holding tone -	425x24//425	0.5 on 0.5 off // 0.5 on 2.5 off
Intrusion tone -	425	0.25 on 2.0 off
Number unobtainable tone -	425	2.5 on 0.5 off
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
5		0.33 of 0.33 off 0.165 on 0.165 off
Congestion tone -	425	
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 of
Offering tone, trunk -	425	0.33 on 0.33 off 0.33 on 1.50 off
Pay tone - I (cards)	622	0.125 on 0.125 off
Pay tone - II (coins)	941	0.2 on 0.2 off 0.2 on 3.6 off
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)		
	425	0.5 on 0.5 off
Busy tone -		
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 -	950/1400/1800	3x0.33 on 1.00 off
Call waiting tone -	425	0.3 on 10.0 off
Solomon Islands		
Busy tone -	400	0.5 on 0.5 off
Congestion tone -	400	0.1 on 0.1 off
Dial tone -	400	continuous
		0.075 on 0.1 off
Number unobtainable tone -	400	
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 -	400	0.15 on 0.25 off 0.15 on 1.45 off
Notify tone -	900	0.2 on 0.2 off 0.2 on 0.2 off
Number unobtainable tone -	400	2.5 on 0.5 off
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
	100,000	0.1 01 1.0 01
Spain		
Busy tone - I	425	0.2 on 0.2 off
Busy tone - II	425	0.5 on 0.5 off
Congestion tone - I	425	2x(0.2 on 0.2 off) 0.2 on 0.6 off
Congestion tone - II	425	0.25 on 0.25 off
Dial tone -	425	continuous

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
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 or 1.5 off
Ringing tone - I	425	1.5 on 3.0 off
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
5	425	0.175 01 0.175 01 0.175 01 5.5 01
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
		0.4 on 0.2 off 0.4 on 2.0 off
Ringing tone -	425	
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
C C	425	0.15 01 0.15 01 0.15 01 4.0 01
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
,, °	1430/943	
Payphone recognition tone - II		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		
Busy tone - I	425	0.25 on 0.25 off
Busy tone - II (1)	425	0.5 on 0.5 off
Congestion tone - I	425	0.25 on 0.75 off
Congestion tone - II (1)	425	0.2 on 0.2 off
Dial tone -	425	continuous
Special dial tone -	425	0.32 on 0.02 off
Pay tone -	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		
Warning tone - operator intervening	1400	0.1 on 1.5 off
Warning tone - three party conference	1400	0.35 on 15.0 off
Call waiting tone - I	425	1x(0.2 on 0.5 off 0.2 on)
Call waiting tone - II (1)	425	0.2 on 0.6 off 0.2 on 3.0 off 0.2 on 0.6 o
		0.2 on
Switzerland (Confederation of)		
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.2 on 0.2 off
Dial tone -	425	continuous
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COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Special dial tone - I	425+340	1.1 on 1.1 off
Special dial tone - II	425	0.5 on 0.05 off
Ringing tone -	425	1.0 on 4.0 off
Special information tone -	950/1400/1800	3x0.333 on 1.0 off
Call waiting tone -	425	0.2 on 0.2 off 0.2 on 4.0 off
-	120	
Syrian Arab Republic		
Busy tone -	450	0.5 on 0.5 off
Congestion tone -	450	0.25 on 0.25 off
Dial tone -	450	continuous
Ringing tone -	400//450	1.0 on 0.5 off
Special information tone -	950/1400/1800	(3x0.33 on 2x0.03 off) 1.0 off
Call waiting tone -	450	0.1 on 0.2 off 0.1 on 9.5 off
Call waiting tone -	450	0.1 01 0.2 01 0.1 01 9.3 01
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
	25	0.0 01 3.2 01
Tanzania (United Republic of)	405	
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 0.37
		on
Special information tone - II	950/1400/1800	3x0.33 on 1.0 off
Test number tone -	2010	continuous
Call waiting tone - I	425	0.05 on 0.20 off
Call waiting tone - II	400	0.4 on 0.2 off
-		
Thailand		
Busy tone -	400	0.5 on 0.5 off
Congestion tone -	400	0.3 on 0.3 off
Dial tone -	400x50	continuous
Special dial tone -	400x50	0.4 on 0.1 off 0.4 on 0.1 off + continuous
Number unobtainable tone -	400	0.1 on 0.1 off 0.1 on 0.1 off 0.1 on 0.1 of
		0.3 on
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 -		announcement
•	400	
Call waiting tone -	400	1.0 on 10.0 off 1.0 on
The Former Yugoslav Republic of		
Macedonia		
Busy tone -	425	0.5 on 0.5 off
Confirmation tone -	425	continuous
Congestion tone -	425	0.2 on 0.2 off
Dial tone -	425	0.2 on 0.3 off 0.7 on 0.8 off
Special dial tone -	425	0.4 on 0.04 off
•		
Intrusion tone -	425	0.2 on 0.3 off 0.7 on 0.8 off
Pay tone -	425	0.5 on 10.0~15.0 off
Ringing tone -	425	1.0 on 4.0 off
Route tone -	425	0.4 on 1.5 off
Special information tone -	950/1400/1800	3x0.33 on 1.0 off
Call waiting tone -	425	0.3 on 8.0~10.0 off
Tokelau		
	400	0.5 0.5 //
Busy tone -	400	0.5 on 0.5 off
Congestion tone -	400	0.5 on 0.5 off
Dial tone -	400	continuous
		0.4 op 0.2 off
Ringing tone -	400+450	0.4 on 0.2 off

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Trinidad and Tobago		
Busy tone -	480+620	0.5 on 0.5 off
Dial tone -	350+440	continuous
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
	900/1400/1800	(3x0.33 on 2x0.03 off) 1.0 off
Special information tone -		
Call waiting tone -	425	0.2 on 0.6 off
Turkey		
Busy tone -	450	0.5 on 0.5 off
Confirmation tone -	450	0.04 on 0.04 off
Congestion tone -	450	3x(0.2 on 0.2 off) 0.6 on 0.2 off
Dial tone -	450	continuous
Special dial tone -	450	1.0 on 0.25 off
Howler tone -	1400/2060/2460/2600	0.1 on 0.1 off
Number unobtainable tone -	450	0.2 on 0.2 off
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		
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)
Tuvalu		·
	425	0 = 0 = 0 = 0
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
5		
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
• •	425 425//440	0.4 on 0.2 off 0.4 on 2.0 off
Ringing tone - II		
Ringing tone - III	450	0.4 on 0.2 off

Call wating tone - II 450/440 0.5 on 0.5 off + continuous United Arab Emirates 400/425 0.375 on 0.375 off Days tone - 400/425 0.4 on 0.35 off 0.25 on 0.525 Number unbuinnable tone - 409+450/425 continuous Ad Norther Treland 409+450/425 continuous Days tone - 409+450/425 continuous Days tone - 400 0.375 on 0.375 off continuous Dargestion tone - 400 0.375 on 0.375 off continuous Dargestion tone - 400 0.375 on 0.375 off continuous Pay tone - 400 0.25 on 0.125 off continuous Pay tone - 400 0.25 on 0.120 off continuous Date at the state of America 1200/800 125 on 0.5 off 3col 10.0 off continuous Datione - 360+420/400x250/400x160/350+440 3col 10.0 off continuous 3col 10.0 off continuous Datione - 3200+400 200+400 3col 10.0 off continuous Datione - 320+400 3col 10.0 off continuous <th>COUNTRY/TONE</th> <th>FREQUENCY in Hz</th> <th>CADENCE in seconds</th>	COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Call watering tone - III 450//440 0.5 on 0.5 off + continuous United Arab Emirates 400//425 0.375 on 0.375 off Data tone - 200//425 0.4 on 0.35 off 0.250 on 0.525 Number unchkinable tone - 400//425 0.4 on 0.35 off 0.250 on 0.525 And Northern Instand 400/-425 0.4 on 0.35 off 0.250 on 0.525 And Northern Instand 400/-450//425 0.4 on 0.35 off 0.225 on 0.525 And Northern Instand 400 0.375 on 0.375 off Competition tone - 400 0.375 on 0.375 off 0.375 on 0.325 off Data Morthern Instand 400 0.375 on 0.375 off Data Morthern Instand 400 0.2 on 0.2 off 0.2 on 0.525 Data Morthern Instand 400 0.2 on 0.2 off 0.2 on 0.2 off Pay tone - 400 0.25 on 0.5 off 300.1 on 0.1 off Data March 800/120//600x133//600x140//600x160//300-400 30.0 on 0.5 off Bay tone - 800/120//600x133//600x140//600x160//480+620 0.5 on 0.5 off Data March 200//400 30.0 off Bay tone - 400/120//600x133//600x140//600x160//480+620 0.5 on 0.5 off Data March 200//400 30.0 off	Route tone -	425//440	0.5 on 0.5 off
Call Waining tome - III 450/440 0.5 on 0.5 off + continuous United Arab Emirates 400/425 0.375 on 0.375 off Congestion tome - 400/425 continuous Mumber unoblainable tome - 400/425 continuous Adv Order adv Order continuous Bing tome - 400/425 continuous Call waiting tome - 400/425 continuous Bing tome - 400 0.4 on 0.375 off Data for them intered 50/350/440 continuous Data form - 400 0.125 on 0.125 off Data form - 400 continuous Pay tone - 400 0.2 on 0.2 off 0.2 on 2.0 off Data form - 1200/800 1.25 on 0.5 off Data form - 250/440 200/100/150/150/140/600/160/350/440 Data form - 250/440 200/100/150/160/160/160/160/160/160/160/160/160/16	Call waiting tone - I	425	0.15 on 0.15 off 0.15 on 8.0 off
Buy tone - 400/425 0.375 off 0.375 off Congestion tone - 400/425 0.4 on 0.365 off 0.225 on 0.325 Dail tone - 400/425 0.4 on 0.2 off 0.4 on 0.305 Ringing tone - 400/425 0.4 on 0.2 off 0.4 on 0.2 off United Kingdom of Great Birlain and Norther Instantia 0.375 onf 0.375 onf Day tone - 400 0.4 on 0.3675 off 0.4 on 0.375 off Day tone - 400 0.4 on 0.375 off 0.4 on 0.375 off Day tone - 400 0.4 on 0.375 off 0.4 on 0.2 off 0.2 on 0.2 off Payshone - 400 0.125 on 0.120 off 0.2 on 0.2 off 0.4 on 2.0 off Payshone - 600x120/600x133/600x140/60x5160/420+620 0.5 on 0.5 off 3.0 off Surg tone - 600x120/600x133/600x140/60x160/420+620 0.5 on 0.5 off 3.0 off Dail tone - 600x120/600x133/600x140/60x160/420+620 0.5 on 0.5 off 3.0 off Confirmation tone - 360-440 3.5 on 0.5 off 3.0 off Dail tone - 600x120/600x133/600x140/60x160/440+620 0.5 on 0.5 off 3.0 on 0.2 off Confi		450//440	0.5 on 0.5 off + continuous
Buy tone - 400/425 0.375 off 0.375 off Congestion tone - 400/425 0.4 on 0.365 off 0.225 on 0.325 Dail tone - 400/425 0.4 on 0.2 off 0.4 on 0.305 Ringing tone - 400/425 0.4 on 0.2 off 0.4 on 0.2 off United Kingdom of Great Birlain and Norther Instantia 0.375 onf 0.375 onf Day tone - 400 0.4 on 0.3675 off 0.4 on 0.375 off Day tone - 400 0.4 on 0.375 off 0.4 on 0.375 off Day tone - 400 0.4 on 0.375 off 0.4 on 0.2 off 0.2 on 0.2 off Payshone - 400 0.125 on 0.120 off 0.2 on 0.2 off 0.4 on 2.0 off Payshone - 600x120/600x133/600x140/60x5160/420+620 0.5 on 0.5 off 3.0 off Surg tone - 600x120/600x133/600x140/60x160/420+620 0.5 on 0.5 off 3.0 off Dail tone - 600x120/600x133/600x140/60x160/420+620 0.5 on 0.5 off 3.0 off Confirmation tone - 360-440 3.5 on 0.5 off 3.0 off Dail tone - 600x120/600x133/600x140/60x160/440+620 0.5 on 0.5 off 3.0 on 0.2 off Confi	United Arab Emirates		
Congestion tone - 400/426 0.4 nn 0.35 off 0.22 on 0.325 Dail tone - 350-440 continuous Number unoblainable tone - 400-450/425 0.4 nn 0.2 off 0.22 on 0.325 Dail tone - 400-450/425 0.4 on 0.2 off 0.22 on 0.325 Dail tone - 400 0.375 off 0.2 off 0.22 on 0.325 Dail tone - 400 0.375 off 0.2 off 0.22 on 0.325 Dail tone - 400 0.375 off 0.2 on 0.2 off 0.22 off 0.2 off Paythone - 400 0.125 on 0.125 off 0.22 on 0.0 off 0.2 on 0.2 off 0.2 off 0.2 off Paythone - 400 0.125 on 0.125 off 0.2 on 0.2 off 0.2 on 0.2 off 0.2 off 0.2 off Dail tone - 1200/800 1.2 on 0.2 off 0.2 off 0.2 off 0.2 on 0.2 off 0.2 off 0.2 off Dail tone - 250+440 3.00.1 on 0.1 off 3.00.1 on 0.1 off Dail tone - 800+400/000x133/600x140/600x160//480+620 0.5 on 0.5 off Dail tone - 800+400 0.5 on 5.0 off 0.5 on 5.0 off Dail tone - 400/400x133/600x140/600x160//480+620 0.5 on 5.0 off 0.5 on 5.0 off Dail tone - 40		400//425	0.375 on 0.375 off
Dial tone - 350'-440 continuous Ringing tone - 400'+450'/425 0.4 on 0.2 off 0.4 on 2.0 off United Kingdon of Great Britain and Morthern Ireland 0.4 on 0.3 forf 0.225 on 0.325 Dail tone - 500'350'-440 continuous Compession tone - 400 0.1 as on 0.32 off 0.2 on 0.325 Dail tone - 500'350'-440 continuous Pay tone - 400 0.1 2 off 0.2 on 0.2 off 0.2 on 2.0 off Pay tone - 400 0.2 as 0.0 as 0.0 off Pay tone - 400'+450//400x16/273 0.4 on 0.2 off 0.4 on 2.0 off Dail tone - 500'320/400x25//400/600x160//350'+40 continuous Dail tone - 600x120//600x133//800x140//600x160//350'+40 continuous Dail tone - 600x120//600x133//800x140//600x160//350'+40 continuous Recard lail tone - 350'+40 continuous Recard tone - 440 0.5 on 0.5 off Number unobtainable tone - 200/400 0.5 on 0.5 off Record tone - 420//400/500 0.3 on 0.2 off Call main tone - 420//400/500 0.5 on 0.5 off <td></td> <td></td> <td></td>			
Number unoblainable tone - 400/425 continuous Ringing tone - 400/450/425 0.4 on 0.2 off 0.4 on 2.0 off 4.0 of 2.0 off 0.4 on 0.4 off 0			
Ringing one - 400+450//425 0.4 on 0.2 off 0.4 on 2.0 off United Kingdom of Great Britian and Norther ireland 00 0.375 on 0.375 off Busy tone - 400 0.4 on 0.35 off 0.225 on 0.526 Congestion tone - 400 0.125 on 0.125 off Payshone recognition tone - 400 0.125 on 0.125 off Payshone recognition tone - 120/0800 0.2 on 0.2 off 0.2 on 2.0 off Susy tone - 400+450//400x16 2/3 0.4 on 0.2 off 0.2 on 2.0 off United States of America 800/x120//600x133//600x140//600x160//480+620 0.5 on 0.5 off Susy tone - 600/x120//600x133//600x140//600x160//480+620 0.5 on 0.5 off Online and tone - 800/x120//600x133//600x140//600x160//480+620 0.5 on 0.5 off Data lone - 400/400//500 0.5 off 0.5 on 0.5 off Number unobtainable tone - 200//400 0.5 on 0.5 off 0.5 on 0.5 off Number unobtainable tone - 420//400//500 0.5 on 0.2 off 0.5 on 0.2 off Warning tone - 420//400//500 0.5 on 0.2 off 0.5 on 0.2 off United States of America 6000//120//600x133//600x140//600x160//480+620			
and Northem Ireland Sury tone - 400 0.375 or 0.375 off Congestion tone - 400 0.4 or 0.35 off 0.225 or 0.525 Dail tone - 400 continuous Number unobtainable tone - 400 continuous Paybone - 400 0.125 or 0.255 off Paybone recognition tone - 1200/800 0.2 or 0.2 off 0.2 or 0.2 off 0.2 or 0.2 off United States of America Busy tone - 600x120//600x130/600x140//600x160//350+440 continuous States of America 500x120//600x130/600x140//600x160//350+440 continuous 3x(0.1 on 0.1 off) + continuous States of America 600x120//600x130/600x140//600x160//400+620 0.5 on 0.5 off continuous Norther unobtainable tone - 600x120//600x130/600x140//600x160//400+620 0.5 on 5. off continuous Number unobtainable tone - 440 0.5 on 0.5 off continuous Recard tone - 440 2.0 on 0.4 off 2.0 on 0.4 off Call waiting tone - 425 0.5 on 0.5 off Congestion tone - 2.0 on 0.2 off Call waiting tone - 425 0.5 on 0.5 off Congeston 0.2 of 0.0 an			
and Northem Ireland Sury tone - 400 0.375 or 0.375 off Congestion tone - 400 0.4 or 0.35 off 0.225 or 0.525 Dail tone - 400 continuous Number unobtainable tone - 400 continuous Paybone - 400 0.125 or 0.255 off Paybone recognition tone - 1200/800 0.2 or 0.2 off 0.2 or 0.2 off 0.2 or 0.2 off United States of America Busy tone - 600x120//600x130/600x140//600x160//350+440 continuous States of America 500x120//600x130/600x140//600x160//350+440 continuous 3x(0.1 on 0.1 off) + continuous States of America 600x120//600x130/600x140//600x160//400+620 0.5 on 0.5 off continuous Norther unobtainable tone - 600x120//600x130/600x140//600x160//400+620 0.5 on 5. off continuous Number unobtainable tone - 440 0.5 on 0.5 off continuous Recard tone - 440 2.0 on 0.4 off 2.0 on 0.4 off Call waiting tone - 425 0.5 on 0.5 off Congestion tone - 2.0 on 0.2 off Call waiting tone - 425 0.5 on 0.5 off Congeston 0.2 of 0.0 an	United Kingdom of Great Britain		
Busy tone - 400 0.375 on 0.375 off. Congestion tone - 400 0.4 on 0.35 off 0.225 on 0.525 Dial tone - 400 continuous Pay tone - 400 0.2 on 0.2 off 0.2 on 0.2 off Pay tone - 400+4501/400x25/400x16 2/3 0.4 on 0.2 off 0.2 on 2.0 off United States of America 0.4 on 0.2 off 0.2 on 2.0 off 0.4 on 0.2 off 0.4 on 2.0 off United States of America 0.5 on 0.5 off 0.4 on 0.2 off 0.4 on 2.0 off Dial tone - 600x120//600x133//600x140//600x160//480+620 0.5 on 0.5 off Confirmation tone - 600x120//600x133//600x140//600x160//480+620 0.5 on 6.0 off Number unoblainable tone - 420/400/500 0.5 on 6.0 off Number unoblainable tone - 420/400/500 0.5 on 6.0 off Record tone - 420/400/500x133//600x140//600x160//480+620 0.5 on 6.0 off Record tone - 420/400/500 0.5 on 0.5 off Continuous 0.5 on 0.5 off 0.5 on 0.5 off Continuous 0.5 on 0.5 off 0.5 on 0.5 off Continuous 0.5 on 0.5 off 0.5 on 0.5 off Dial tone -			
Congestion tone - 400 0.4 on 0.35 off 0.25 on 0.525 Dial tone - 50/350+440 continuous Number unobtainable tone - 400 0.125 on 0.125 off Pay tone - 400 0.2 on 0.2 off 0.2 on 2.0 off Bays tone - 600x120//600x133/600x140//600x160//480+620 0.5 on 0.5 off Stays tone - 600x120//600x133/600x140//600x160//380/440 0.5 on 0.5 off Confirmation tone - 350+440 3x(0.1 on 0.1 off) 3x(0.1 on 0.1 off) Dial tone - 600x120//600x133/600x140//600x160//380/440 3x(0.1 on 0.1 off) ontinuous Recall dial tone - 350+440 3x(0.1 on 0.1 off) ontinuous Number unobtainable tone - 200//400 200 confit cours Recald tone - 4200//500 confit cours 0.5 on 0.5 off Congestion tone - 420 2.5 on 0.25 off 0.5 on 0.5 off Congestion tone - 420 2.5 on 0.25 off 0.5 on 0.5 off Congestion tone - 425 0.25 on 0.5 off 0.5 on 0.5 off Congestion tone - 425 0.25 on 0.5 off 0.5 on 0.5 off </td <td></td> <td>400</td> <td>0.375 on 0.375 off</td>		400	0.375 on 0.375 off
Dial Tone - 50//350+440 continuous Pay tone - 400 0.125 on 0.125 off Pay tone - 400+450//400x25//400x16.2/3 0.4 on 0.2 off 0.2 on 2.0 off United States of America 0.001/20000 0.2 on 0.2 off 0.2 on 2.0 off Duited States of America 0.5 on 0.5 off 0.4 on 0.2 off 0.2 on 2.0 off Confirmation tone - 350+440 34(.1 on 0.1 off) Dial tone - 600x120//600x133//600x140//600x160//480+620 0.5 on 0.5 off Mumber unobtainable tone - 600x120//600x133//600x140//600x160//480+620 0.5 on 6.0 off Number unobtainable tone - 600x120//600x133//600x140//600x160//480+620 0.5 on 6.0 off Record tone - 460//400//500 0.5 on 5.0 off Warning tone - 450//400//500 0.5 on 7.5 off Call waiting tone - 420x40//500x133//600x140//600x160//480+620 0.3 on 0.2 off Call waiting tone - 420x40//500x133//600x140//600x160//480+620 0.5 on 5.0 off Call waiting tone - 425 0.5 on 0.5 off Call waiting tone - 425 0.2 on 0.3 off Dial tone - 1 425 0.2 on 0.3 off <t< td=""><td>-</td><td></td><td>0.4 on 0.35 off 0.225 on 0.525 of</td></t<>	-		0.4 on 0.35 off 0.225 on 0.525 of
Pay bone - 400 0.125 on 0.125 off Payphone recognition tone - 120/000 0.2 on 0.2 off 0.2 on 2.0 off Ringing tone - 400+4501/400x25/400x16.2/3 0.4 on 0.2 off 0.2 on 2.0 off United States of America 0.5 on 0.5 off 3.0 (1 on 0.1 off) Busy tone - 600x120//600x133//600x140//600x160//480+620 0.5 on 0.5 off Confirmation tone - 350+440 3x(0.1 on 0.1 off) Recall dial tone - 350+440 0.5 on 0.5 off Number unobtainable tone - 2001/400 0.5 on 6.0 off Permanent Signal tone - 4800/00/500 continuous Record tone - 4400 0.5 on 5.0 off Call waiting tone - message (4) 1400 2.0 on 4.0 off Call waiting tone - 425 0.25 on 0.25 off Congestion tone - 425 0.25 on 0.25 off Call waiting tone - 425 0.25 on 0.25 off Congestion tone - 425 0.25 on 0.25 off Call waiting tone - 425 0.25 on 0.25 off Dial tone - I 425 0.25 on 0.25 off Dial tone - I	-	50//350+440	
Payphone recognition tone - 1200/800 0.2 on 0.2 off 0.2 on 2.0 off Ringing tone - 400+450//400x25//400x16 2/3 0.4 on 0.2 off 0.4 on 2.0 off United States of America 500x120//600x133//600x140//600x160//480+620 0.5 on 0.5 off Dial tone - 600x120//600x133//600x140//600x160//350+440 3x(0.1 on 0.1 off) Confirmation tone - 600x120//600x133//600x140//600x160//350+440 50 on 0.5 off Number unobtainable tone - 200//400 25 on 6.0 off 5 on 6.0 off Number unobtainable tone - 420//400//500 20 on 4.0 off 20 on 4.0 off Waring tone - 480//400//500 20 on 0.2 off 0.5 on 5.0 off Number unobtainable tone - 420x40i/500x40i/440+480 20 on 4.0 off 20 on 4.0 off Waring tone - 420x40i/500x40i/440+480 20 on 4.0 off 0.5 on 5.0 off Call walling tone - 425 0.5 on 0.5 off 0.5 on 5.0 off Call walling tone - 425 0.5 on 0.25 off 0.5 on 0.25 off Call walling tone - 425 0.5 on 0.25 off 0.5 on 0.25 off Call walling tone - 425 0.5 on 0.25 off 0.5 on 0	Number unobtainable tone -	400	continuous
Ringing tone - 400+450//400x25//400x16 2/3 0.4 on 0.2 off 0.4 on 2.0 off United States of America 600x120//600x133//600x140//600x160//480+620 0.5 on 0.5 off Busy tone - 350+440 3x(0.1 on 0.1 off) Confirmation tone - 350+440 3x(0.1 on 0.1 off) Number unoblainable tone - 2001/400 0.5 on 6.0 off Permanent Signal tone - 480//400//500 continuous Recall dial tone - 480//400//500 continuous Recall dial tone - 480//400//500 0.5 on 6.0 off Record tone - 440 0.5 on 0.5 off Congestion tone - 420//40//500x40//440+480 2.0 on 4.0 off Re-order tone - 600x120//600x133//600x140//600x160//480+620 0.3 on 0.2 off Congestion tone - 425 0.5 on 0.5 off Congestion tone - 425 0.5 on 0.5 off Dial tone - II 425 0.5 on 0.25 off Dial tone - II 425 0.5 on 0.2 off Dial tone - II 425 0.5 on 0.2 off Dial tone - 425 0.5 on 0.5 off Dial tone -		400	0.125 on 0.125 off
United States of America Busy tone - 600x120//600x133//600x140//600x160//480+620 0.5 on 0.5 off Confirmation tone - 600x120//600x133//600x160//350+440 3x(0.1 on 0.1 off) Recall dial tone - 350+440 3x(0.1 on 0.1 off) Intrusion tone - 600x120//600x133//600x160//350+440 5 on 0.5 off Number unobtainable tone - 200//400 0.5 on 5.0 off Recard tone - 440 0.5 on 5.0 off Record tone - 440 0.5 on 5.0 off Warning tone - 600x120//600x133//600x140//600x160//480+620 0.3 on 0.2 off Warning tone - 420x40i/500x133//600x140//600x160i/480+620 0.3 on 0.2 off Uruguay (Eastern Republic of) 2x(0.3 on 10.0 off) 2x(0.3 on 10.0 off) Uruguay (Eastern Republic of) 225 0.5 on 0.5 off Dial tone - I 425 0.25 on 0.2 off) Dial tone - I 425 0.25 on 0.2 off) Dial tone - I 425 0.2 on 0.2 off) Dial tone - I 425 0.2 on 0.2 off) Dial tone - I 425 0.2 on 0.2 off) Dia tone - I	Payphone recognition tone -	1200/800	0.2 on 0.2 off 0.2 on 2.0 off
Busy tone - 600x120//600x133//600x140//600x160//380+620 0.5 on 0.5 off Confirmation tone - 350+440 3x(0.1 on 0.1 off) Dial tone - 600x120//600x133//600x140//600x160//350+440 3x(0.1 on 0.1 off) Recall dial tone - 350+440 3x(0.1 on 0.1 off) Intrusion tone - 600x120//600x133//600x140//600x160//480+620 0.5 on 0.5 off Number unoblainable tone - 200//400 0.5 on 5.0 off continuous Record tone - 440 0.5 on 5.0 off continuous Warning tone - 420x40//500x40//440+480 2.0 on 5.0 off continuous Warning tone - 420x40//500x133//600x140//600x160//480+620 0.5 on 0.5 off continuous Urguay (Eastern Republic of) Urguay (Eastern Republic of) 0.5 on 0.25 off continuous Busy tone - 425 0.5 on 0.25 off continuous Dial tone - 1 425 0.5 on 0.25 off continuous Special information tone - 425 0.5 on 0.25 off continuous Special information tone - 425 0.5 on 0.5 off continuous Special information tone -	Ringing tone -	400+450//400x25//400x16 2/3	0.4 on 0.2 off 0.4 on 2.0 off
Busy tone - 600x120//600x133//600x140//600x160//380+620 0.5 on 0.5 off Confirmation tone - 350+440 3x(0.1 on 0.1 off) Dial tone - 600x120//600x133//600x140//600x160//350+440 3x(0.1 on 0.1 off) Recall dial tone - 350+440 3x(0.1 on 0.1 off) Intrusion tone - 600x120//600x133//600x140//600x160//480+620 0.5 on 0.5 off Number unoblainable tone - 200//400 0.5 on 5.0 off continuous Record tone - 440 0.5 on 5.0 off continuous Warning tone - 420x40//500x40//440+480 2.0 on 5.0 off continuous Warning tone - 420x40//500x133//600x140//600x160//480+620 0.5 on 0.5 off continuous Urguay (Eastern Republic of) Urguay (Eastern Republic of) 0.5 on 0.25 off continuous Busy tone - 425 0.5 on 0.25 off continuous Dial tone - 1 425 0.5 on 0.25 off continuous Special information tone - 425 0.5 on 0.25 off continuous Special information tone - 425 0.5 on 0.5 off continuous Special information tone -			
Confirmation tone - 350+440 30(2) 1 on 0.1 off) Dial tone - 600x120//600x133//600x140//600x160//350+440 3x(0.1 on 0.1 off) + continuous Intrusion tone - 600x120//600x133//600x140//600x160//480+620 0.5 on 6.0 off Permanent signal tone - 480//400//500 0.5 on 5.0 off Record tone - 480//400//500 0.5 on 5.0 off Record tone - 480//400//500 0.5 on 0.5 off Warning tone - 480//400//500 2.0 on 4.0 off Record tone - 420x40//500x133//600x140//600x160//480+620 0.3 on 0.2 off Congestion tone - 420x40//500x133//600x140//600x160//480+620 0.3 on 0.2 off Congestion tone - 425 0.5 on 0.5 off Congestion tone - 425 0.5 on 0.5 off Dial tone - II 425 0.5 on 0.5 off Dial tone - II 425 0.5 on 0.5 off Dengistive indication tone - 425 0.5 on 0.5 off Dengistive indication tone - 425 0.5 on 0.5 off Special information tone - 425 0.5 on 0.5 off Special information tone - 425 0.5 on 0.5	United States of America		
Confirmation tone - 350+440 30(2) 1 on 0.1 off) Dial tone - 600x120//600x133//600x140//600x160//350+440 3x(0.1 on 0.1 off) + continuous Intrusion tone - 600x120//600x133//600x140//600x160//480+620 0.5 on 6.0 off Permanent signal tone - 480//400//500 0.5 on 5.0 off Record tone - 480//400//500 0.5 on 5.0 off Record tone - 480//400//500 0.5 on 0.5 off Warning tone - 480//400//500 2.0 on 4.0 off Record tone - 420x40//500x133//600x140//600x160//480+620 0.3 on 0.2 off Congestion tone - 420x40//500x133//600x140//600x160//480+620 0.3 on 0.2 off Congestion tone - 425 0.5 on 0.5 off Congestion tone - 425 0.5 on 0.5 off Dial tone - II 425 0.5 on 0.5 off Dial tone - II 425 0.5 on 0.5 off Dengistive indication tone - 425 0.5 on 0.5 off Dengistive indication tone - 425 0.5 on 0.5 off Special information tone - 425 0.5 on 0.5 off Special information tone - 425 0.5 on 0.5	Busy tone -	600x120//600x133//600x140//600x160//480+620	0.5 on 0.5 off
Dial tone - 600x120//600x133//600x140//600x160//350+440 continuous Recall dial tone - 350+440 3x(0.1 on 0.1 off) + continuous Number unobtainable tone - 200//400 0.5 on 0.5 off Permanent signal tone - 480//400//500 2.0 on 4.0 off Record tone - 420x40//500x40//440+480 2.0 on 4.0 off Record tone - 420x40//500x40//440+480 2.0 on 4.0 off Record tone - 420x40//500x40//440+480 0.5 on 0.5 off Call waiting tone - 420x40//500x133//600x140//600x160//480+620 0.3 on 0.2 off Warning tone - 425 0.5 on 0.5 off Congestion tone - 425 0.5 on 0.5 off Dial tone - 1 425 0.25 on 0.25 off Dial tone - 1 425 0.25 on 0.26 off Positive indication tone - 425 0.4 on 0.2 off Positive indication tone - 425 0.5 on 0.5 off Positive indication tone - 425 0.5 on 0.5 off Positive indication tone - 425 0.2 on 0.25 off Positive indication tone - 425 0.5 on 0.5 off			
Intrusion tone - 600x120//600x133//600x140//600x160//480+620 0.5 on 6.0 off Permanent Signal tone - 200//40/ 0.5 on 6.0 off Record tone - 440 0.5 on 5.0 off Record tone - 420x40//500 continuous Record tone - 420x40//500x40//440+480 2.0 on 4.0 off Record tone - 600x120//600x133//600x140//600x160//480+620 0.3 on 0.2 off Warning tone - 420x40//500x40//440+480 0.5 on Call waiting tone - 425 0.2 on 0.3 off Urguay (Eastern Republic of) E 2x(0.3 on 10.0 off) Busy tone - 425 0.5 on 0.5 off Congestion tone - 425 0.5 on 0.5 off Dial tone - I 425 2x(0.1 on 0.2 off) 0.1 on 1.3 of Negative indication tone - 425 1.0 on 4.0 off Positive indication tone - 425 2.0 on 0.3 off Dial tone - I 425 0.5 on 0.5 off Positive indication tone - 425 0.0 for 0.2 on 0.1 off Warning tone - operator intervening 425 0.2 on 0.2 off 0.1 on 1.4 of Warning to	Dial tone -	600x120//600x133//600x140//600x160//350+440	
Number unobtainable tone - 200//400 0.5 on 6.0 off Permanent signal tone - 480//400//500x40//440+480 2.0 on 4.0 off Ringing tone - 420x40//500x40//440+480 2.0 on 4.0 off Re-order tone - 600x120//600x133//600x140//600x160//480+620 0.3 on 0.2 off Warning tone - message (4) 1400 0.5 on 0.5 on Call waiting tone - 425 0.5 on 0.5 off 0.25 on Congestion tone - 425 0.25 on 0.25 off 0.25 on 0.25 off Dial tone - II 425 0.5 on 0.5 off 0.0 and 0.0 off Negative indication tone - 425 0.5 on 0.5 off 0.0 and 0.2 on 0.3 off Positive indication tone - 425 0.5 on 0.5 off 0.0 and 0.2 on 0.3 off Negative indication tone - 425 0.5 on 0.5 off 0.0 and 0.0 off Negative indication tone - 425 0.5 on 0.5 off 0.0 and 0.0 off Special information tone - 425 0.5 on 0.5 off 0.5 on 1.45 of Special information tone - 425 0.2 on 0.2 off 0.2 on 4.4 off Waring tone - 425 0.5 on 0.5	Recall dial tone -	350+440	3x(0.1 on 0.1 off) + continuous
Permanent signal tone - 460//400//500 continuous Record tone - 440 0.5 on 5.0 off Ringing tone - 420x40//500x40//440+480 2.0 on 4.0 off Record tone - 600x120//600x133//600x140//600x160//480+620 0.3 on 0.2 off Warning tone - message (4) 1400 0.5 on Call waiting tone - 420 2x(0.3 on 10.0 off) Uruguay (Eastern Republic of) 55 on 0.5 off 0.5 on 0.5 off Congestion tone - 425 0.5 on 0.5 off Dial tone - I 425 0.5 on 0.5 off Dial tone - I 425 0.5 on 0.5 off Positive indication tone - 425 0.5 on 0.5 off Dial tone - I 425 0.5 on 0.5 off Positive indication tone - 425 0.5 on 0.5 off Positive indication tone - 425 0.5 on 0.5 off Special information tone - 950/1400/1800 3x0 333 on 1.0 off Waring tone - 425 0.5 on 0.5 off Congestion tone - 425 0.5 on 0.5 off Dial tone - 425 0.5 on 0.5 off <td>Intrusion tone -</td> <td>600x120//600x133//600x140//600x160//480+620</td> <td>0.5 on 0.5 off</td>	Intrusion tone -	600x120//600x133//600x140//600x160//480+620	0.5 on 0.5 off
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Ringing tone - 420x40//500x40//440+480 2.0 on 4.0 off Re-order tone - 600x120//600x133//600x160//480+620 0.3 on 0.2 off Warning tone - message (4) 1400 0.5 on Call waiting tone - 440 2x(0.3 on 10.0 off) Urguay (Eastern Republic of Busy tone - 425 0.5 on 0.5 off Congestion tone - 425 0.5 on 0.5 off Dial tone - I 425 0.5 on 0.5 off Positive indication tone - 425 0.5 on 0.5 off Positive indication tone - 425 0.5 on 0.5 off Positive indication tone - 425 0.5 on 0.5 off Positive indication tone - 425 0.5 on 0.25 off 0.1 5 on 1.3 of Ringing tone - 425 0.2 on 0.2 off 0.1 on 1.3 of Warting tone - operator intervening 425 0.2 on 0.2 off 0.2 on 4.4 off Warting tone - 9501 20.2 on 0.5 off Congestion tone - 425 0.5 on 0.5 off Congestion tone - 425 0.5 on 0.5 off Dial tone - 425 0.5 on 0.5 off Congestion tone - 425 0.5 on 0.5 off <tr< td=""><td>Permanent signal tone -</td><td>480//400//500</td><td>continuous</td></tr<>	Permanent signal tone -	480//400//500	continuous
Re-order tone - 600x120//600x133//600x140//600x160//480+620 0.3 on 0.2 off Warning tone - message (4) 1400 0.5 on Call waiting tone - 440 2x(0.3 on 10.0 off) Uruguay (Eastern Republic of) Busy tone - 425 0.5 on 0.5 off Congestion tone - 425 0.25 on 0.25 off Dial tone -1 425 0.5 on 0.5 off Dial tone -1 425 0.5 on 0.5 off Negative indication tone - 425 0.5 on 0.5 off Positive indication tone - 425 0.5 on 0.5 off Negative indication tone - 425 0.5 on 0.5 off Special information tone - 950/1400/1800 3x0.333 on 1.0 off Warning tone - 950/1400/1800 3x0.333 on 1.0 off Warning tone - 425 0.5 on 0.5 off Special information tone - 950 continuous Busy tone - 425 0.5 on 0.5 off Congestion tone - 950 continuous Busy tone - 425 0.5 on 0.5 off Dial tone -			0.5 on 5.0 off
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Busy tone - 425 0.5 on 0.5 off Confirmation tone - 425 0.1 on 0.1 off 0.3 on 0.1 off Congestion tone - 425 0.25 on 0.25 off Dial tone - 425 continuous Howler tone - 1440 0.5 on 0.5 off Pay tone - 800 1.0 on 15.0 off Ringing tone - 425 1.0 on 4.0 off Special information tone - 950/1440/1800 3x0.33 on 1.0 off		425	0.5 01 10.0 01
Busy tone - 425 0.5 on 0.5 off Confirmation tone - 425 0.1 on 0.1 off 0.3 on 0.1 off Congestion tone - 425 0.25 on 0.25 off Dial tone - 425 continuous Howler tone - 1440 0.5 on 0.5 off Pay tone - 800 1.0 on 15.0 off Ringing tone - 425 1.0 on 4.0 off Special information tone - 950/1440/1800 3x0.33 on 1.0 off			
Busy tone - 425 0.5 on 0.5 off Confirmation tone - 425 0.1 on 0.1 off 0.3 on 0.1 off Congestion tone - 425 0.25 on 0.25 off Dial tone - 425 continuous Howler tone - 1440 0.5 on 0.5 off Pay tone - 800 1.0 on 15.0 off Ringing tone - 425 1.0 on 4.0 off Special information tone - 950/1440/1800 3x0.33 on 1.0 off	Venezuela (Bolivarian Pepublic of)		
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		125	0.5 on 0.5 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	2		
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			
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	0		
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			
Ringing tone - 425 1.0 on 4.0 off Special information tone - 950/1440/1800 3x0.33 on 1.0 off			
Special information tone - 950/1440/1800 3x0.33 on 1.0 off	-		
	Special information tone -	330/ 1440/ 1000	570.55 011.0 011
Annex to ITU OB 955-E 29		-	

COUNTRY/TONE	FREQUENCY in Hz	CADENCE in seconds
Call waiting tone -	400/450	0.3 on 6.0 off
Caller waiting tone -	425	1.0 on 4.0 off
Wallis and Futuna (Territoire		
français d'outre-mer)		
Busy tone -	440	0.5 on 0.5 off
Dial tone -	440//330	continuous
Pay tone -	12000	0.1 on
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)		
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.25 on 0.25 off
Dial tone -	102	continuous
Ringing tone -	425	1.0 on 4.0 off
Zambia (Republic of)		
Busy tone -	425	0.5 on 0.5 off
Congestion tone -	425	0.25 on 0.25 off
Dial tone -	425	continuous
Pay tone -	800	2.0 on
Payphone recognition tone -	1600	0.1 on
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.
- 11 In a certain service, music can be played in parallel to the ringing tone.

To be returned to ITU/TSB Fax No. +41 22 730 5853 / E-mail: tsbtson@itu.int

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