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Place des Nations CH-1211
Genève 20 (Switzerland)
Tel: +41 22 730 5111
E-mail: itumail@itu.int

Standardization Bureau (TSB)
Tel: +41 22 730 5211
Fax: +41 22 730 5853
E-mail: tsbmail@itu.int / tsbtson@itu.int

Radiocommunication Bureau (BR)
Tel: +41 22 730 5560
Fax: +41 22 730 5785
E-mail: brmail@itu.int

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<i>Dates of publication of the next Operational Bulletins</i>		<i>Including information received by:</i>
1179	1.IX.2019	16.VIII.2019
1180	15.IX.2019	30.VIII.2019
1181	1.X.2019	16.IX.2019
1182	15.X.2019	1.X.2019
1183	1.XI.2019	15.X.2019
1184	15.XI.2019	1.XI.2019
1185	1.XII.2019	15.XI.2019
1186	15.XII.2019	2.XII.2019

GENERAL INFORMATION

Lists annexed to the ITU Operational Bulletin

Note from TSB

A. The following Lists have been published by TSB or BR as Annexes to the ITU Operational Bulletin (OB):

OB No.

- 1162 Mobile Network Codes (MNC) for the international identification plan for public networks and subscriptions (According to Recommendation ITU-T E.212 (09/2016)) (Position on 15 December 2018)
- 1161 List of Issuer Identifier Numbers for the International Telecommunication Charge Card (In accordance with Recommendation ITU-T E.118 (05/2006)) (Position on 1 December 2018)
- 1154 Status of Radiocommunications between Amateur Stations of Different Countries (In accordance with optional provision No. 25.1 of the Radio Regulations) and Form of Call Signs assigned by each Administration to its Amateur and Experimental Stations (Position on 15 August 2018)
- 1125 List of Signalling Area/Network Codes (SANC) (Complement to Recommendation ITU-T Q.708 (03/99)) (Position on 1 June 2017)
- 1125 List of terrestrial trunk radio mobile country codes (Complement to Recommendation ITU-T E.218 (05/2004)) (Position on 1 June 2017)
- 1117 List of mobile country or geographical area codes (Complement to Recommendation ITU-T E.212 (09/2016)) (Position on 1 February 2017).
- 1114 List of Recommendation ITU-T E.164 assigned country codes (Complement to Recommendation ITU-T E.164 (11/2010)) (Position on 15 December 2016)
- 1109 List of International Signalling Point Codes (ISPC) (According to Recommendation ITU-T Q.708 (03/99)) (Position on 1 October 2016)
- 1096 Legal time 2016
- 1060 List of ITU Carrier Codes (According to ITU-T Recommendation M.1400 (03/2013)) (Position on 15 September 2014)
- 1015 Access codes/numbers for mobile networks (According to ITU-T Recommendation E.164 (11/2010)) (Position on 1 November 2012)
- 1002 List of Country or Geographical Area Codes for non-standard facilities in telematic services (Complement to ITU-T Recommendation T.35 (02/2000)) (Position on 15 April 2012)
- 1001 List of the national authorities designated to assign ITU-T Recommendation T.35 terminal provider codes (Position on 1 April 2012)
- 1000 Service Restrictions (Recapitulatory list of service restrictions in force relating to telecommunications operation) (Position on 15 March 2012)
- 994 Dialling Procedures (International prefix, national (trunk) prefix and national (significant) number) (In accordance with ITU-T Recommendation E.164 (11/2010)) (Position on 15 December 2011)
- 991 Call-Back and alternative calling procedures (Res. 21.PP-2006)
- 980 List of Telegram Destination Indicators (In accordance with ITU-T Recommendation F.32 (10/1995)) (Position on 15 May 2011)
- 978 List of Telex Destination Codes (TDC) and Telex Network Identification Codes (TNIC) (Complement to ITU-T Recommendations F.69 (06/1994) and F.68 (11/1988)) (Position on 15 April 2011)
- 977 List of Data Network Identification Codes (DNIC) (According to ITU-T Recommendation X.121 (10/2000)) (Position on 1 April 2011)
- 976 List of Data Country or Geographical Area Codes (Complement to ITU-T Recommendation X.121 (10/2000)) (Position on 15 March 2011)
- 974 List of Names of Administration Management Domains (ADMD) (In accordance with ITU-T F.400 and X.400 series Recommendations) (Position on 15 February 2011)
- 955 Various tones used in national networks (According to ITU-T Recommendation E.180 (03/98)) (Position on 1 May 2010)
- 669 Five-letter Code Groups for the use of the International Public Telegram Service (According to ITU-T Recommendation F.1 (03/1998))

B. The following Lists are available online from the ITU-T website:

- | | |
|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| List of ITU Carrier Codes (ITU-T Rec. M.1400 (03/2013)) | www.itu.int/ITU-T/inr/icc/index.html |
| Bureaufax Table (ITU-T Rec. F.170) | www.itu.int/ITU-T/inr/bureaufax/index.html |
| List of recognized operating agencies (ROAs) | www.itu.int/ITU-T/inr/roa/index.html |

Approval of ITU-T Recommendations

By AAP-63, it was announced that the following ITU-T Recommendations were approved, in accordance with the procedures outlined in Recommendation ITU-T A.8:

- ITU-T H.871 (07/2019): Safe listening guidelines for personal sound amplifiers
- ITU-T J.207 (07/2019): Specification for an integrated broadcast and broadband digital television application control framework
- ITU-T J.216 (07/2019): Second-generation modular headend architecture in systems for interactive cable television services - IP cable modems
- ITU-T J.224 (07/2019): Fifth-generation transmission systems for interactive cable television services - IP cable modems
- ITU-T J.288 (07/2019): Encapsulation of type length value (TLV) packet for cable transmission systems
- ITU-T J.1026 (07/2019): Downloadable conditional access system for unidirectional network; Requirements
- ITU-T J.1027 (07/2019): Downloadable conditional access system for unidirectional network; System architecture
- ITU-T J.1028 (07/2019): Downloadable conditional access system for unidirectional network; Terminal system
- ITU-T J.1202 (07/2019): The architecture of smart TV operating system
- ITU-T J.1210 (07/2019): Requirements of IP video broadcast (IPVB) for CATV networks
- ITU-T Q.3741 (07/2019): Signalling requirements for SD-WAN service
- ITU-T Q.4043 (07/2019): Interoperability testing requirements of virtual switch
- ITU-T Q.5021 (07/2019): Protocol for managing capability exposure APIs in IMT-2020 network

By TSB Circular 159 of 19 March 2019, it was announced that the following ITU-T Recommendations were approved, in accordance with the procedures outlined in Resolution 1:

- ITU-T Q.5050 (03/2019): Framework for solution to combat counterfeit ICT devices

By TSB Circular 171 of 3 June 2019, it was announced that the following ITU-T Recommendations were approved, in accordance with the procedures outlined in Resolution 1:

- ITU-T L.1015 (06/2019): Criteria for evaluation of the environmental impact of mobile phones

By TSB Circular 187 of 22 July 2019, it was announced that the following ITU-T Recommendations were approved, in accordance with the procedures outlined in Resolution 1:

- ITU-T G.9700 (07/2019): Fast access to subscriber terminals (G.fast) – Power spectral density specification

Telephone Service (Recommendation ITU-T E.164)

url: www.itu.int/itu-t/inr/nnp

Georgia (country code +995)

Communication of 23.VII.2019:

The Georgian National Communications Commission, Tbilisi, announces the following national numbering plan for Georgia:

Locality or operator	NDC	National (Significant) Number N(S)N		Usage E.164 number	Additional information
		Max.	Min.		
Batumi	422	9	9	Geographic number	
Tbilisi	32	9	9	Geographic number	
Rustavi	341	9	9	Geographic number	
Kobuleti	426	9	9	Geographic number	
Samtredia	411	9	9	Geographic number	
Abasha	412	9	9	Geographic number	
Senaki	413	9	9	Geographic number	
Zugdidi	415	9	9	Geographic number	
Tsalendjikha	416	9	9	Geographic number	
Chkhorotskhu	417	9	9	Geographic number	
Martvili	418	9	9	Geographic number	
Kutaisi	431	9	9	Geographic number	
Vani	432	9	9	Geographic number	
Kharagauli	433	9	9	Geographic number	
Sachkhere	435	9	9	Geographic number	
Lentekhi	437	9	9	Geographic number	
Ambrolauri	439	9	9	Geographic number	
Tskaltubo	436	9	9	Geographic number	
Akhgori	342	9	9	Geographic number	
Tskhinvali	344	9	9	Geographic number	
Stefanstminda (Kazbegi)	345	9	9	Geographic number	
Dusheti	346	9	9	Geographic number	
Djava	347	9	9	Geographic number	
Tianeti	348	9	9	Geographic number	
Akhmeta	349	9	9	Geographic number	
Telavi	350	9	9	Geographic number	
Sagaredjo	351	9	9	Geographic number	
Kvareli	352	9	9	Geographic number	
Gurdjaani	353	9	9	Geographic number	
Lagodekhi	354	9	9	Geographic number	
Signagi	355	9	9	Geographic number	
DedoplisTskaro	356	9	9	Geographic number	

Locality or operator	NDC	National (Significant) Number N(S)N		Usage E.164 number	Additional information
		Max.	Min.		
Marneuli	357	9	9	Geographic number	
Bolnisi	358	9	9	Geographic number	
TetriTskaro	359	9	9	Geographic number	
Dmanisi	360	9	9	Geographic number	
Ninotsminda	361	9	9	Geographic number	
Akhalkalaki	362	9	9	Geographic number	
Tsalka	363	9	9	Geographic number	
Aspindza	364	9	9	Geographic number	
Akhaltzikhe	365	9	9	Geographic number	
Adigeni	366	9	9	Geographic number	
Bordjomi	367	9	9	Geographic number	
Khashuri	368	9	9	Geographic number	
Kareli	369	9	9	Geographic number	
Gori	370	9	9	Geographic number	
Kaspi	371	9	9	Geographic number	
Gardabani	372	9	9	Geographic number	
Mtskheta	373	9	9	Geographic number	
Tigvi	374	9	9	Geographic number	
Chiatura	479	9	9	Geographic number	
Terdjola	491	9	9	Geographic number	
Zestafoni	492	9	9	Geographic number	
Poti	493	9	9	Geographic number	
Khoni	495	9	9	Geographic number	
Ozurgeti	496	9	9	Geographic number	
Tkibuli	497	9	9	Geographic number	
Ianchxuti	494	9	9	Geographic number	
Tsageri	472	9	9	Geographic number	
Oni	473	9	9	Geographic number	
Mestia	410	9	9	Geographic number	
Xobi	414	9	9	Geographic number	
Xulo	423	9	9	Geographic number	
Shuaxevi	424	9	9	Geographic number	
Qeda	425	9	9	Geographic number	
Choxatauri	419	9	9	Geographic number	
Bagdati	434	9	9	Geographic number	
xelvachauri	427	9	9	Geographic number	
Sukhumi	442	9	9	Geographic number	
Gagra	443	9	9	Geographic number	
Gulripshi	448	9	9	Geographic number	
Gudauta	444	9	9	Geographic number	
Gali	447	9	9	Geographic number	

Locality or operator	NDC	National (Significant) Number N(S)N		Usage E.164 number	Additional information
		Max.	Min.		
Ochamchire	445	9	9	Geographic number	
Tkvarcheli	446	9	9	Geographic number	
Mobilaive	500000000-500009999	9	9	Non-geographic number	Mobile network operator
Magticom	500500000-500504999	9	9	Non-geographic number	Mobile network operator
Magticom	505555000-505559999	9	9	Non-geographic number	Mobile network operator
Magticom	511110000-511114999	9	9	Non-geographic number	Mobile network operator
Geo Cell	514	9	9	Non-geographic number	Mobile network operator
Magticom	522220000-522224999	9	9	Non-geographic number	Mobile network operator
Magticom	533330000-533334999	9	9	Non-geographic number	Mobile network operator
Magticom	544440000-544449999	9	9	Non-geographic number	Mobile network operator
Gimobile	550000000-550039999	9	9	Non-geographic number	Mobile network operator
Datacom	550550000-550559999	9	9	Non-geographic number	Mobile network operator
Magticom	551	9	9	Non-geographic number	Mobile network operator
Premium Net International SRL	552000000-552009999	9	9	Non-geographic number	Mobile network operator
Geo Cell	555	9	9	Non-geographic number	Mobile network operator
Geo Cell	557	9	9	Non-geographic number	Mobile network operator
Geo Cell	558	9	9	Non-geographic number	Mobile network operator
Global Cell	559000000-559009999	9	9	Non-geographic number	Mobile network operator
Mobitel	568	9	9	Non-geographic number	Mobile network operator
Silqnet	570	9	9	Non-geographic number	Mobile network operator
Mobitel	571	9	9	Non-geographic number	Mobile network operator
Mobitel	574	9	9	Non-geographic number	Mobile network operator
Asanet	575000000-575004999	9	9	Non-geographic number	Mobile network operator
Magticom	575777000-575781999	9	9	Non-geographic number	Mobile network operator
Geo Cell	577	9	9	Non-geographic number	Mobile network operator
Mobitel	579	9	9	Non-geographic number	Mobile network operator
Magticom	585888000-585892999	9	9	Non-geographic number	Mobile network operator
Geo Cell	588880000-588889999	9	9	Non-geographic number	Mobile network operator
Magticom	790	9	9	Non-geographic number	Digital fix(CDMA) telephony services;
Magticom	591	9	9	Non-geographic number	Mobile network operator

Locality or operator	NDC	National (Significant) Number N(S)N		Usage E.164 number	Additional information
		Max.	Min.		
Mobitel	592	9	9	Non-geographic number	Mobile network operator
Geo Cell	593	9	9	Non-geographic number	Mobile network operator
Magti	595	9	9	Non-geographic number	Mobile network operator
Magticom	596	9	9	Non-geographic number	Mobile network operator
Mobitel	597	9	9	Non-geographic number	Mobile network operator
Magticom	598	9	9	Non-geographic number	Mobile network operator
Magticom	599	9	9	Non-geographic number	Mobile network operator

Contact:

Georgian National Communications Commission
50/18 Ketevan Tsamebuli-Bochorma Str.
TBILISI 0144
Georgia
Tel: +995 32 2921667
Fax: +995 32 2921625
E-mail: post@gncc.ge
URL: www.gncc.ge

Morocco (country code +212)

Communication of 19.VII.2019:

The *Agence Nationale de Réglementation des Télécommunications (ANRT)*, Rabat, announces the following update of the national telephone-numbering plan of Morocco.

- new NDC below has recently been introduced as follows:

NDC (national destination code) or leading digits of N(S)N (national (significant) number)	N(S)N number length		Usage of ITU-T E.164 number	Additional information
	Maximum length	Minimum length		
59242	9	9	VSAT	Gulfsat Maghreb

Contact:

Motiaa Abdelhay
Agence Nationale de Réglementation des Télécommunications (ANRT)
Centre d'affaires
Address: Boulevard Ar-Riad, Hay Riad
B.P. 2939
RABAT 10100
Morocco
Tel: +212 5 37 71 85 64
E-mail: numerotation@anrt.ma
URL: www.anrt.ma

Ukraine (country code +380)

Communication of 29.VII.2019:

The State Service of Special Communications and Information Protection of Ukraine, Kyiv, announces the following updates to the national numbering plan of Ukraine.

- *Assignments updates of National Destination Codes in Ukraine:*

a) Overview:

Minimum number length (excluding the country code): 9 digits

Maximum number length (excluding the country code): 9 digits

b) Details of numbering scheme:

NDC (National Destination Code) or leading digits of N(S)N (National (Significant) Number)	N(S)N number length		Usage of ITU-T E.164 Number	Additional information
	Maximum length	Minimum length		
50 (NDC)	9	9	Non-geographic number – mobile service	Service provided by “VF Ukraine” PrJSC
63 (NDC)	9	9	Non-geographic number – mobile service	Service provided by “lifecell” LLC
66 (NDC)	9	9	Non-geographic number – mobile service	Service provided by “VF Ukraine” PrJSC
67 (NDC)	9	9	Non-geographic number – mobile service	Service provided by “Kyivstar” PrJSC
68 (NDC)	9	9	Non-geographic number – mobile service	Service provided by “Kyivstar” PrJSC
73 (NDC)	9	9	Non-geographic number – mobile service	Service provided by “lifecell” LLC
91 (NDC)	9	9	Non-geographic number – mobile service	Service provided by “TriMob” LLC
92 (NDC)	9	9	Non-geographic number – mobile service	Service provided by “Telesystems of Ukraine” PrJSC
93 (NDC)	9	9	Non-geographic number – mobile service	Service provided by “lifecell” LLC
94 (NDC)	9	9	Non-geographic number – mobile service	Service provided by “Intertelecom” LLC
95 (NDC)	9	9	Non-geographic number – mobile service	Service provided by “VF Ukraine” PrJSC
96 (NDC)	9	9	Non-geographic number – mobile service	Service provided by “Kyivstar” PrJSC
97 (NDC)	9	9	Non-geographic number – mobile service	Service provided by “Kyivstar” PrJSC
98 (NDC)	9	9	Non-geographic number – mobile service	Service provided by “Kyivstar” PrJSC
99 (NDC)	9	9	Non-geographic number – mobile service	Service provided by “VF Ukraine” PrJSC
891 (NDC)	9	9	Non-geographic number – fixed service	Service provided by “Datagroup” PrJSC
892 (NDC)	9	9	Non-geographic number – fixed service	Service provided by “Ukrtelecom” JSC
893 (NDC)	9	9	Non-geographic number – fixed service	Service provided by “T.R. Communication” LLC
894 (NDC)	9	9	Non-geographic number – fixed service	Service provided by “Atlantis Telecom” LLC
897 (NDC)	9	9	Non-geographic number – fixed service	Service provided by “Kyivstar” PrJSC
899 (NDC)	9	9	Non-geographic number – fixed service	Service provided by Velton.Telecom LLC

- Assignments for 800 International Freephone numbers and 900 International Premium Rate numbers:

a) Overview:

Minimum number length (excluding the country code): 9 digits

Maximum number length (excluding the country code): 10 digits

b) Details of numbering scheme:

<i>NDC (National Destination Code) or leading digits of N(S)N (National (Significant) Number)</i>	<i>N(S)N number length</i>		<i>Usage of ITU-T E.164 Number</i>	<i>Additional information</i>
	<i>Maximum length</i>	<i>Minimum length</i>		
800 10	10	9	Non-geographic number – 800 Universal International Freephone Number	Service provided by Velton.Telecom LLC
800 20	10	9	Non-geographic number – 800 Universal International Freephone Number	Service provided by “lifecell” LLC
800 21	10	9	Non-geographic number – 800 Universal International Freephone Number	Service provided by “Datagroup” PrJSC
800 30	10	9	Non-geographic number – 800 Universal International Freephone Number	Service provided by “Kyivstar” PrJSC
800 31	10	9	Non-geographic number – 800 Universal International Freephone Number	Service provided by “MAXNET” LLC
800 33	10	9	Non-geographic number – 800 Universal International Freephone Number	Service provided by “BINOTEL” LLC
800 40	10	9	Non-geographic number – 800 Universal International Freephone Number	Service provided by “VF Ukraine” PrJSC
800 50	10	9	Non-geographic number – 800 Universal International Freephone Number	Service provided by “Ukrtelecom” JSC
800 60	10	9	Non-geographic number – 800 Universal International Freephone Number	Service provided by “Farlep-Invest” PrJSC
800 75	10	9	Non-geographic number – 800 Universal International Freephone Number	Service provided by “Intertelecom” LLC
800 80	10	9	Non-geographic number – 800 Universal International Freephone Number	Service provided by “T.R. Communication” LLC
900 23	10	9	Non-geographic number – 900 Premium-rate telephone number, global telecommunication service	Service provided by “Audiotex” LLC
900 25	10	9	Non-geographic number – 900 Premium-rate telephone number, global telecommunication service	Service provided by “T.R. Communication” LLC
900 30	10	9	Non-geographic number – 900 Premium-rate telephone number, global telecommunication service	Service provided by “Ukrtelecom” JSC

NDC (National Destination Code) or leading digits of N(S)N (National (Significant) Number)	N(S)N number length		Usage of ITU-T E.164 Number	Additional information
	Maximum length	Minimum length		
900 31	10	9	Non-geographic number – 900 Premium-rate telephone number, global telecommunication service	Service provided by “Datagroup” PrJSC
900 32	10	9	Non-geographic number – 900 Premium-rate telephone number, global telecommunication service	Service provided by “EURO-INFORM” LLC
900 90	10	9	Non-geographic number – 900 Premium-rate telephone number, global telecommunication service	Service provided by “Microcom” LLC

- Description of implementation of number portability (NP) of ITU-T E.164 numbers in the national numbering plan (NNP):

Country: Ukraine			
	Geographic numbers	Non-geographic numbers other than mobile numbers (e.g., premium rate services, freephone services)	Mobile numbers
State of number portability (NP)	Not implemented	No	Implemented since 2019
Regulatory obligation for operators to implement NP	Yes	No	Yes
Type of NP implementation	-	-	On mobile network Distributed NP centralized reference database with ACQ (All Call Query) On fixed network Distributed NP with OR (Onward Routing)
NP database solution (if any)	-	-	Solution C - Centralized database approach
Limitations	Numbering area coverage		No
Specifications available on website	https://zakon.rada.gov.ua/laws/show/z0872-15 ; https://zakon.rada.gov.ua/rada/show/v0244519-17 ; https://zakon.rada.gov.ua/laws/show/z1019-15	-	https://zakon.rada.gov.ua/laws/show/z0872-15 ; https://zakon.rada.gov.ua/rada/show/v0244519-17 ; https://zakon.rada.gov.ua/laws/show/z1019-15

Country: Ukraine			
	Geographic numbers	Non-geographic numbers other than mobile numbers (e.g., premium rate services, freephone services)	Mobile numbers
Contact information for national administration / numbering plan administrator (NPA)	State Service of Special Communications and Information Protection of Ukraine 13 Solomianska str., Kyiv, Ukraine, 03110 Tel.: +380 442819196 Fax: +380 442819196 doz_kom@dsszzi.gov.ua	State Service of Special Communications and Information Protection of Ukraine 13 Solomianska str., Kyiv, Ukraine, 03110 Tel.: +380 442819196 Fax: +380 442819196 doz_kom@dsszzi.gov.ua	State Service of Special Communications and Information Protection of Ukraine 13 Solomianska str., Kyiv, Ukraine, 03110 Tel.: +380 442819196 Fax: +380 442819196 doz_kom@dsszzi.gov.ua
Central reference database (CRDB) (if any) managed/operated by			Ukrainian State Centre of Radio Frequencies 151, Peremogy ave 03179 Kyiv Ukraine Tel: +380 44 422-85-85 Fax: +380 44 422-81-81 E-mail: int@ucrf.gov.ua; centre@ucrf.gov.ua

Contact:

State Service of Special Communications and Information Protection of Ukraine
13 Solomianska Street,
03110 KYIV
Ukraine
Tel/ Fax: +380 44 226 26 73
E-mail: doz_kom@dsszzi.gov.ua

Service Restrictions

See URL: www.itu.int/pub/T-SP-SR.1-2012

<i>Country/geographical area</i>	<i>OB</i>
Seychelles	1006 (p.13)
Slovakia	1007 (p.12)
Malaysia	1013 (p.5)
Thailand	1034 (p.5)
São Tomé and Príncipe	1039 (p.14)
Uruguay	1039 (p.14)
Hong Kong, China	1068 (p.4)
Ukraine	1148 (p.5)

Call – Back and alternative calling procedures (Res. 21 Rev. PP – 2006)

See URL: www.itu.int/pub/T-SP-PP.RES.21-2011/

AMENDMENTS TO SERVICE PUBLICATIONS

Abbreviations used

ADD	Insert	PAR	paragraph
COL	Column	REP	replace
LIR	Read	SUP	Delete
P	page(s)		

List of Ship Stations and Maritime Mobile Service Identity Assignments (List V) Edition of 2018

Section VI

ADD

JP09 ARION JAPAN CO., LTD, 7F, Hiyamadaini Bldg,
2-20-30, Takanawa, Minato-ku, Tokyo Japan.

REP

IU02 SIRM ITALIA s.r.l., Via Calata San Marco 13, 80133 NAPOLI, Italia.
E-Mail: sirmitalia@pec.it, Tel: +39 081 5353201, Fax: +39 081 5353700.

US02 Mackay Communications, Inc., 3691 Trust Drive Raleigh,
NC 27616-2955 United States.
E-Mail: satserv@mackaycomm.com, Tel: +1 919 850 3100,
Fax: +1 919 954 1707, URL: www.mackaycomm.com.
Contact Person: Satellite Services Department.

**List of Issuer Identifier Numbers for
the International Telecommunication Charge Card
(in accordance with Recommendation ITU-T E.118 (05/2006))
(Position on 1 December 2018)**

(Annex to ITU Operational Bulletin No. 1161 – 1.XII.2018)
(Amendment No. 15)

Brazil

LIR

<i>Country/ geographical area</i>	<i>Company Name/Address</i>	<i>Issuer Identifier Number</i>	<i>Contact</i>
Brazil	Oi Móvel S/A Setor Comercial Norte, Quadra 03, Bloco A, Edifício Estação Telefônica, térreo, parte 2 – CEP: 70713-900 Brasília/DF	89 55 24	Frederico de Melo Lima Isaac/ Daniel Luiz Capella Leoneza Setor Comercial Norte, Quadra 03, Bloco A, Edifício Estação Telefônica, térreo, parte 2 – CEP: 70713-900 Brasília/DF Tel: +55 21 3131-2564/2320 E-mail: frederico.isaac@oi.net.br; daniel.leoneza@oi.net.br
Brazil	Oi Móvel S/A Setor Comercial Norte, Quadra 03, Bloco A, Edifício Estação Telefônica, térreo, parte 2 – CEP: 70713-900 Brasília/DF	89 55 16	Frederico de Melo Lima Isaac/ Daniel Luiz Capella Leoneza Setor Comercial Norte, Quadra 03, Bloco A, Edifício Estação Telefônica, térreo, parte 2 – CEP: 70713-900 Brasília/DF Tel: +55 21 3131-2564/2320 E-mail: frederico.isaac@oi.net.br; daniel.leoneza@oi.net.br

Greece

ADD

<i>Country/ Geographical area</i>	<i>Company Name/Address</i>	<i>Issuer Identifier Number</i>	<i>Contact</i>	<i>Effective date of usage</i>
Greece	Forthnet S.A. Vasilika Vouton Heraclion Crete GR 71003	89 30 11	Grigorios Sandalidis Forthnet S.A. Manis Str., GR 153 51 Kantza, PALLINI Tel.: +30 210 660 2112 E-mail: gsanda@forthnet.gr	1.IX.2019

Saint Vincent and the Grenadines

LIR

<i>Country/ geographical area</i>	<i>Company Name/Address</i>	<i>Issuer Identifier Number</i>	<i>Contact</i>
Saint Vincent and the Grenadines	Cable and Wireless (St. Vincent & The Grenadines) Limited P.O. Box 103 Halifax Street KINGSTOWN	89 1 022	Andrea Liverpool P.O. Box 103 Halifax Street KINGSTOWN Tel: +1 784 457 1901 Fax: +1 784 457 2777 E-mail: andrea.liverpool@cw.com

**Mobile Network Codes (MNC) for the international identification plan
for public networks and subscriptions
(According to Recommendation ITU-T E.212 (09/2016))
(Position on 15 December 2018)**

(Annex to ITU Operational Bulletin No. 1162 - 15.XII.2018)
(Amendment No. 14)

<i>Country/Geographical area</i>	<i>MCC+MNC *</i>	<i>Operator/Network</i>
Ukraine ADD		
	255 09	"Farlep-Invest", PrJSC
	255 10	"Atlantis Telecom", LLC

* MCC: Mobile Country Code / Indicateur de pays du mobile / Indicativo de país para el servicio móvil
MNC: Mobile Network Code / Code de réseau mobile / Indicativo de red para el servicio móvil

**List of ITU Carrier Codes
(According to Recommendation ITU-T M.1400 (03/2013))
(Position on 15 September 2014)**

(Annex to ITU Operational Bulletin No. 1060 – 15.IX.2014)
(Amendment No. 83)

<i>Country or area/ISO code Company Name/Address</i>	<i>Company Code (carrier code)</i>	<i>Contact</i>
Germany (Federal Republic of) / DEU	ADD	
Thomas Hergenroether IT-Service Hergenroether Ebrachweg 3 D-97422 SCHWEINFURT	ITSHT	Mr Thomas Hergenroether Tel.: +49 9721 34441 Fax: +49 9721 38150 Email: info@itsht.de
outbox AG Bulk-Account Emil-Hoffmann-Strasse 1 a D-50996 KOELN	FLOBX	Mr Thomas Grotz Tel.: +49 2236 39595 55 Fax: +49 2236 39595 955 Email: t.grotz@outbox.de
Stadtwerke Norderney GmbH Jann-Berghaus-Strasse 34 D-26548 NORDERNEY	SWN122	Mr Holger Schoenemann Tel.: +49 4932 879 82 Fax: +49 4932 879 90 Email: holger.schoenemann@stadtwerke- norderney.de
Stadtwerke OELS NITZ/V. GmbH Boxbachweg 2 D-08606 OELS NITZ/V.	SWOE	Mr Michael Fritzsch Tel.: +49 37421 408 0 Fax: +49 37421 29491 Email: info@swoe.de