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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.

- 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)
- 1111 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 1 November 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
- 1088 List of Issuer Identifier Numbers for the International Telecommunication Charge Card (In accordance with Recommendation ITU-T E.118 (05/2006)) (Position on 15 November 2015)
- 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))
- 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-45, 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 F.780.1 (10/2018): Framework for telemedicine systems using ultra-high definition imaging
- ITU-T H.265.1 (10/2018): Conformance specification for ITU-T H.265 high efficiency video coding
- ITU-T Q.850 (10/2018): Usage of cause and location in the Digital Subscriber Signalling System No. 1 and the Signalling System No. 7 ISDN user part
- ITU-T Q.3405 (10/2018): IPv6 protocol procedures for broadband services
- ITU-T Q.3641 (10/2018): IMS references to Release 11 for communication between IMS and NGN Networks in order to support end-to-end service interoperability
- ITU-T Q.3717 (10/2018): Signalling requirements for automatic management of IP address pool by SDN technologies on BNG
- ITU-T Q.3718 (10/2018): Signalling requirements of the Sew interface for Virtual Data Center
- ITU-T Q.4060 (10/2018): The structure of the testing of heterogeneous Internet of Things gateways in a laboratory environment
- ITU-T Q.5001 (10/2018): Signalling requirements and architecture of intelligent edge computing
- ITU-T X.894 (10/2018): Generic applications of ASN.1 Cryptographic Message Syntax
- ITU-T X.1450 (10/2018): Guidelines on hybrid authentication and key management mechanisms in the client-server model
- ITU-T Y.2814 (08/2018): Mobility management framework over reconfigurable networks
- ITU-T Y.3103 (08/2018): Business Role-based Models in IMT-2020
- ITU-T Y.3170 (08/2018): Requirements of machine learning based QoS assurance for IMT-2020 network
- ITU-T Z.151 (10/2018): User Requirements Notation (URN) - Language definition
- ITU-T Z.161 (10/2018): Testing and Test Control Notation version 3: TTCN-3 core language
- ITU-T Z.161.2 (10/2018): Testing and Test Control Notation version 3: TTCN-3 language extensions: Configuration and deployment support
- ITU-T Z.161.4 (10/2018): Testing and Test Control Notation version 3: TTCN-3 language extensions: Behaviour types
- ITU-T Z.161.6 (10/2018): Testing and Test Control Notation version 3: TTCN-3 language extensions: Advanced matching
- ITU-T Z.166 (10/2018): Testing and Test Control Notation version 3: TTCN-3 control interface (TCI)
- ITU-T Z.167 (10/2018): Testing and Test Control Notation version 3: Using ASN.1 with TTCN-3
- ITU-T Z.169 (10/2018): Testing and Test Control Notation version 3: Using XML schema with TTCN-3
- ITU-T Z.171 (10/2018): Testing and Test Control Notation version 3: Using JSON with TTCN-3

International Identification Plan for Public Networks and Subscriptions (Recommendation ITU-T E.212 (09/2016))

Note from TSB

Identification codes for International Mobile Networks

Associated with shared mobile country code 901 (MCC), the following two-digit mobile network code (MNC) has been assigned on 9 October 2018:

<i>Network</i>	<i>Mobile Country Code (MCC)* and Mobile Network Code (MNC)**</i>
MTN Management Services	901 61

* MCC: Mobile Country Code / Indicatif 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

Telephone Service (Recommendation ITU-T E.164)

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

Curaçao (country code +599)

Communication of 5.X.2018:

The *Bureau Telecommunicatie en Post*, Curaçao, announces the following updated numbering plan for Curaçao:

- Overview

Country code	+599
Area code for Curaçao	9
Non geographical numbers have no area code	

- Dialling plan

Curaçao (area code 9)	+599 9 NXX XXXX (N = 4, 5, 6, 7, 8)
Non Geographical	+599 6XX XXXX

Locality	Number ranges	Service type	Operator
Curaçao (+599 9)	430 XXXX - 435 XXXX	Fixed Service	Antelecom N.V.
	441 XXXX	Fixed Service	Antelecom N.V.
	444 XXXX	Fixed Service	Antelecom N.V.
	46X XXXX	Fixed Service	Antelecom N.V.
	50X XXXX	Fixed Service	Antelecom N.V.
	730 XXXX	Fixed Service	Antelecom N.V.
	732 XXXX - 739 XXXX	Fixed Service	Antelecom N.V.
	744 XXXX - 749 XXXX	Fixed Service	Antelecom N.V.
	763 XXXX	Fixed Service	Antelecom N.V.
	765 XXXX	Fixed Service	Antelecom N.V.
	767 XXXX	Fixed Service	Antelecom N.V.
	777 XXXX	Fixed Service	Antelecom N.V.
	787 XXXX - 789 XXXX	Fixed Service	Curacao Cable Television N.V.
	833 XXXX	Fixed Service	Antelecom N.V.
	839 XXXX	Fixed Service	Antelecom N.V.
	84X XXXX	Fixed Service	Santa Barbara Utilities N.V.
	86X XXXX	Fixed Service	Antelecom N.V.
	870 XXXX - 871 XXXX	Fixed Service	Antelecom N.V.
	885 XXXX	Fixed Service	Antelecom N.V.
	887 XXXX - 889 XXXX	Fixed Service	Antelecom N.V.
	51X XXXX - 52X XXXX	Mobile Service	Antelecom N.V.
	530 XXXX - 531 XXXX	Mobile Service	Antelecom N.V.
	54X XXXX	Mobile Service	Antelecom N.V.
56X XXXX - 57X XXXX	Mobile Service	Antelecom N.V.	
65X XXXX - 69X XXXX	Mobile Service	Curacao Telecom N.V.	
721 XXXX	Long distance service	Smitcoms N.V.	
724 XXXX	Long distance service	Curacao Telecom N.V.	
720 XXXX	Long distance service	Flamingo TV Bonaire B.V.	
*Non geographical (+599)	N.A.	* Value-added service (inbound only). These numbers are not assigned to subscribers	N.A.

Contact:

Mr F.A. Sluis
 Director
 Bureau Telecommunicatie en Post
 Beatrixlaan 9
 Curaçao
 Tel: +599 9 463 1700
 Fax: +599 9 736 5265
 URL: www.btnp.org

Denmark (country code +45)

Communication of 9.X.2018:

The *Danish Energy Agency*, Copenhagen, announces the following updates to the national numbering plan of Denmark:

- Withdrawal – Carrier select Code

<i>Provider</i>	<i>Carrier select Code</i>	<i>Date of withdrawal</i>
TDC A/S	1004 and 1045	30.IX.2018

- Assignment – Fixed communications services

<i>Provider</i>	<i>Numbering series</i>	<i>Date of assignment</i>
Uni-tel A/S	3242efgh	1.X.2018

- Assignment – Mobile communications services

<i>Provider</i>	<i>Numbering series</i>	<i>Date of assignment</i>
Connection Tele-Punkt A/S	5430efgh	4.X.2018
lpnordic A/S	9292efgh	9.X.2018
Mobilevalue ApS	4410efgh and 4411efgh	1.I.2019

Communication of 11.X.2018:

The *Danish Energy Agency*, Copenhagen, announces the following updates to the national numbering plan of Denmark:

- Assignment – Mobile communications services

<i>Provider</i>	<i>Numbering series</i>	<i>Date of assignment</i>
lpnordic A/S	9292efgh	9.X.2018
SimService A/S	5459efgh	10.X.2018

Contact:

Danish Energy Agency
Amaliegade 44
1256 COPENHAGEN K
Denmark
Tel: +45 33 92 67 00
Fax: +45 33 11 47 43
E-mail: ens@ens.dk
URL: www.ens.dk

Other communications

Austria

Communication of 9.X.2018:

On the occasion of the 16th anniversary of the Antarctic Activity Week 2019, the Austrian Administration authorizes an Austrian amateur station to use the special call sign **OE16AAW** from 16 to 24 February 2019.

Communication of 10.X.2018:

On the occasion of the 32nd anniversary of the European DX Foundation, the Austrian Administration authorizes an Austrian amateur station to use the special call sign **OE32EUDXF** from 1 to 17 November 2018.

Serbia

Communication of 8.X.2018:

On the occasion of the "YOTA (Youngsters on the Air)" month, the Serbian Administration authorizes a radio station of the Amateur Radio Union of Serbia to use the special call signs **YT18YOTA** and **YU18YOTA** from 1 to 31 December 2018.

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 COL Column LIR Read P page(s)	PAR paragraph REP replace SUP Delete
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List of Issuer Identifier Numbers for the International Telecommunication Charge Card (in accordance with Recommendation ITU-T E.118 (05/2006)) (Position on 15 November 2015)

(Annex to ITU Operational Bulletin No. 1088 – 15.XI.2015)
(Amendment No. 50)

Armenia LIR

<i>Country/ geographical area</i>	<i>Company Name/Address</i>	<i>Issuer Identifier Number</i>	<i>Contact</i>
Armenia	“VEON Armenia” CJSC 2 Aharonyan street, 0014 YEREVAN	89 374 01	Mrs Karine Yeghiazaryan 2 Aharonyan street YEREVAN Armenia Tel: +37410290109 E-mail: KYeghiazaryan@beeline.am
Armenia	MTS Armenia CJSC 4/1 Argishti street YEREVAN	89 374 05	Mr Ralph Yirikyan 4/1 Argishti street YEREVAN Tel: +374 60 771 111 Fax: +374 93 298 021 E-mail: ryirikyan@mts.am

Colombia LIR

<i>Country/ geographical area</i>	<i>Company Name/Address</i>	<i>Issuer Identifier Number</i>	<i>Contact</i>
Colombia	Colombia Telecomunicaciones SA ESP (Movistar) Transversal 60 # 114A - 55 BOGOTÁ D.C.	89 57 123	Fabián Andrés Hernández Ramirez Representante Legal Transversal 60 # 114A - 55 BOGOTÁ D.C. Tel: +57 1 7050000 E-mail: natalia.guerra@telefonica.com; diana.arias@telefonica.com; emilio.santofimio@telefonica.com

Korea (Rep. of) LIR

<i>Country/ geographical area</i>	<i>Company Name/Address</i>	<i>Issuer Identifier Number</i>	<i>Contact</i>
Korea (Rep. of)	KT Corporation 90 Buljeong-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, 13606	89 82 01	Heekyung Youm Int'l call Service Dept. 178, Sejong-daero, Jomgno-gu, SEOUL, 03154 Tel: +82 2 3495 4879 Fax: +82 303 0993 5629 E-mail: heekyung.youm@kt.kr
Korea (Rep. of)	KT Corporation 90 Buljeong-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, 13606	89 82 30	JongJin Yun 178, Sejong-daero, Jomgno-gu, SEOUL, 03154 Tel: +82 10 6750 6705 Fax: +82 303 0993 3844 E-mail: jj.yun@kt.com
Korea (Rep. of)	LG Uplus Corporation LG Uplus Bldg., 32 Hangang-daero, Yongsan-gu, SEOUL, 04389	89 82 06	Yeon Sang, Koo E9•E11 LG Science park,71, Magokjungang8-ro,Gangseo-gu, SEOUL, 07795 Tel: +82 10 8080 2238 E-mail: yskoo@lguplus.co.kr

**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 1st November 2016)**

(Annex to ITU Operational Bulletin No. 1111 - 1.XI.2016)
(Amendment No. 46)

<i>Country/Geographical area</i>	<i>MCC+MNC *</i>	<i>Operator/Network</i>
Canada ADD		
	302 600	Iristel Inc.
Sweden LIR		
	240 13	A3 Företag AB
	240 15	Sierra Wireless Sweden AB
Switzerland SUP		
	228 10	Stadt Polizei Zürich
International Mobile, shared code ADD		
	901 61	MTN Management Services

* MCC: Mobile Country Code / Indicatif 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. 69)

<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	
Markus Seemann my-netphone Hofmuehlstrasse 18 83071 STEPHANSKIRCHEN	MYNET	Mr Markus Seemann Tel.: +49 8031 809644 Fax: +49 8031 809643 E-mail: markus.seemann@my-netphone.com
PTC Telecom GmbH Am Anger 5 82238 WÖRTHSEE	XSIP	Mr Andreas Brummer Tel.: +49 8153 997772 Fax: +49 8153 997790 E-mail : brummer.a@ptc.de
telequest & Internet Solutions GmbH Liebenauer Hauptstrasse 2-6 A-8041 GRAZ Austria	TQ2001	DI Wolfgang Hutter Tel.: +43 316 4682482 Fax: +43 316 47442214 E-mail : legal@telequest.at

List of International Signalling Point Codes (ISPC) (According to Recommendation ITU-T Q.708 (03/1999)) (Position on 1 October 2016)

(Annex to ITU Operational Bulletin No. 1109 – 1.X.2016)
(Amendment No. 45)

<i>Country/ Geographical Area</i>			<i>Unique name of the signalling point</i>	<i>Name of the signalling point operator</i>
<i>ISPC</i>	<i>DEC</i>			
Ireland ADD				
5-216-2	11970		MSCCL1	Meteor Mobile Communications Ltd.
5-216-3	11971		MSCKW1	Meteor Mobile Communications Ltd.
Sweden LIR				
2-080-1	4737		VMS1 (Stockholm)	A3 Företag AB
2-080-4	4740		GTS-STO-S1 (Stockholm)	A3 Företag AB
2-083-6	4766		RSL-SWE 2 (Stockholm)	A3 Företag AB
2-192-7	5639		VMS2 (Stockholm)	A3 Företag AB
2-193-3	5643		RSL_SWE (Stockholm)	A3 Företag AB
6-229-3	14123		Maingate SP01 (Karlskrona)	Sierra Wireless Sweden AB
6-229-4	14124		Maingate SP02 (Karlskrona)	Sierra Wireless Sweden AB
6-229-5	14125		Maingate SP03 (Karlskrona)	Sierra Wireless Sweden AB

ISPC: International Signalling Point Codes.
Codes de points sémaphores internationaux (CPSI).
Códigos de puntos de señalización internacional (CPSI).

National Numbering Plan (According to Recommendation ITU-T E.129 (01/2013))

Web: www.itu.int/itu-t/inr/nnp/index.html

Administrations are requested to notify ITU about their national numbering plan changes, or to give an explanation on their webpage concerning the national numbering plan as well as their contact points, so that the information, which will be made available freely to all administrations/ROAs and service providers, can be posted on the ITU-T website.

For their numbering website, or when sending their information to ITU/TSB (e-mail: tsbtson@itu.int), administrations are kindly requested to use the format as explained in Recommendation ITU-T E.129. They are reminded that they will be responsible for the timely update of this information.

From 1.X.2018, the following countries/geographical areas/global networks have updated their national numbering plan on our site:

<i>Country/ Geographical area/Global network</i>	<i>Country Code (CC)</i>
China	+86
Iran (Islamic Republic of)	+98
Liberia	+231
Zambia	+260
AT&T Cingular Wireless Network	+882 37