

# ITU Operational Bulletin

[www.itu.int/itu-t/bulletin](http://www.itu.int/itu-t/bulletin)

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

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

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

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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.

- 1199 List of International Signalling Point Codes (ISPC) (According to Recommendation ITU-T Q.708 (03/1999)) (Position on 1 July 2020)
- 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 (03/1999)) (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)
- 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 Rev. PP-06)
- 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 (03/1998)) (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)	<a href="http://www.itu.int/ITU-T/inr/icc/index.html">www.itu.int/ITU-T/inr/icc/index.html</a>
Bureaufax Table (ITU-T Rec. F.170)	<a href="http://www.itu.int/ITU-T/inr/bureaufax/index.html">www.itu.int/ITU-T/inr/bureaufax/index.html</a>
List of recognized operating agencies (ROAs)	<a href="http://www.itu.int/ITU-T/inr/roa/index.html">www.itu.int/ITU-T/inr/roa/index.html</a>

## Approval of ITU-T Recommendations

By AAP-10, 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 P.852 (07/2022): Subjective quality evaluation of text-based chatbots
- ITU-T X.1409 (07/2022): Security services based on distributed ledger technology
- ITU-T E.803 (07/2022): Quality of service parameters for supporting service aspects
- ITU-T G.191 (07/2022): Guidance for the development of machine learning based solutions for QoS/QoE prediction and network performances management in telecommunication scenarios
- ITU-T G.1023 (07/2022): Framework for capacity assessment of packet data services in mobile networks
- ITU-T G.1036 (07/2022): Quality of experience (QoE) influencing factors for augmented reality (AR) services
- ITU-T P.64 (07/2022): Determination of sensitivity/frequency characteristics of local telephone systems
- ITU-T P.380 (07/2022): Electro-acoustic measurements on headsets
- ITU-T P.581 (07/2022): Use of head and torso simulator for hands-free and handset terminal testing
- ITU-T P.863.2 (07/2022): Extension of P.863 for multi-dimensional assessment of degradations in telephony speech signals up to full-band
- ITU-T P.910 (07/2022): Subjective video quality assessment methods for multimedia applications
- ITU-T P.1140 (07/2022): Speech communication requirements for emergency calls originating from vehicles
- ITU-T P.1204.4 (07/2022): Video quality assessment of streaming services over reliable transport for resolutions up to 4K with access to full and reduced reference pixel information
- ITU-T P.1320 (07/2022): QoE assessment of extended reality (XR) meetings
- ITU-T P.1402 (07/2022): Guidance for the development of machine learning based solutions for QoS/QoE prediction and network performances management in telecommunication scenarios
- ITU-T Y.1545.2 (07/2022): QoS metrics for continuity-of-performance of packet data based services

## Telephone Service (Recommendation ITU-T E.164)

url: [www.itu.int/itu-t/inr/nnp](http://www.itu.int/itu-t/inr/nnp)

### Denmark (country code +45)

Communication of 28.VII.2022:

The Agency for Data Supply and Infrastructure, Copenhagen, announces the following updates to the national numbering plan of Denmark:

- Withdrawals

<i>Type</i>	<i>Numbering resource</i>	<i>Provider</i>	<i>Date of withdrawal</i>
Mobile communication	20381fgh	Nuuday A/S	27 April 2022
Mobile communication	20383fgh	Nuuday A/S	27 April 2022
Mobile communication	20384fgh	Nuuday A/S	27 April 2022
Mobile communication	20389fgh	Nuuday A/S	27 April 2022
Mobile communication	20505fgh	Nuuday A/S	27 April 2022
Mobile communication	20506fgh	Nuuday A/S	27 April 2022
Mobile communication	20509fgh	Nuuday A/S	27 April 2022
Mobile communication	23541fgh	Nuuday A/S	27 April 2022
Mobile communication	23561fgh	Nuuday A/S	27 April 2022
Mobile communication	23762fgh	Nuuday A/S	27 April 2022
Mobile communication	24136fgh	Nuuday A/S	27 April 2022
Mobile communication	24332fgh	Nuuday A/S	27 April 2022
Mobile communication	24334fgh	Nuuday A/S	27 April 2022
Mobile communication	24380fgh	Nuuday A/S	27 April 2022
Mobile communication	24384fgh	Nuuday A/S	27 April 2022
Mobile communication	24576fgh	Nuuday A/S	27 April 2022
Mobile communication	24717fgh	Nuuday A/S	27 April 2022
Mobile communication	24729fgh	Nuuday A/S	27 April 2022
Mobile communication	29191fgh	Nuuday A/S	27 April 2022
Mobile communication	29196fgh	Nuuday A/S	27 April 2022
Mobile communication	29750fgh	Nuuday A/S	27 April 2022
Mobile communication	29751fgh	Nuuday A/S	27 April 2022
Mobile communication	29752fgh	Nuuday A/S	27 April 2022
Mobile communication	29753fgh	Nuuday A/S	27 April 2022
Mobile communication	29754fgh	Nuuday A/S	27 April 2022
Mobile communication	29755fgh	Nuuday A/S	27 April 2022
Mobile communication	29756fgh	Nuuday A/S	27 April 2022
Mobile communication	29757fgh	Nuuday A/S	27 April 2022
Mobile communication	29758fgh	Nuuday A/S	27 April 2022
Mobile communication	29971fgh	Nuuday A/S	27 April 2022
Mobile communication	29972fgh	Nuuday A/S	27 April 2022
Mobile communication	29973fgh	Nuuday A/S	27 April 2022
Mobile communication	29974fgh	Nuuday A/S	27 April 2022
Mobile communication	29975fgh	Nuuday A/S	27 April 2022
Mobile communication	29977fgh	Nuuday A/S	27 April 2022
Mobile communication	29978fgh	Nuuday A/S	27 April 2022
Mobile communication	29979fgh	Nuuday A/S	27 April 2022

<i>Type</i>	<i>Numbering resource</i>	<i>Provider</i>	<i>Date of withdrawal</i>
Mobile communication	29960fgh	Nuuday A/S	27 April 2022
Mobile communication	29961fgh	Nuuday A/S	27 April 2022
Mobile communication	29962fgh	Nuuday A/S	27 April 2022
Mobile communication	29963fgh	Nuuday A/S	27 April 2022
Mobile communication	29964fgh	Nuuday A/S	27 April 2022
Mobile communication	29965fgh	Nuuday A/S	27 April 2022
Mobile communication	29966fgh	Nuuday A/S	27 April 2022
Mobile communication	29967fgh	Nuuday A/S	27 April 2022
Mobile communication	29968fgh	Nuuday A/S	27 April 2022
Mobile communication	29950fgh	Nuuday A/S	27 April 2022
Mobile communication	29951fgh	Nuuday A/S	27 April 2022
Mobile communication	29952fgh	Nuuday A/S	27 April 2022
Mobile communication	29953fgh	Nuuday A/S	27 April 2022
Mobile communication	29954fgh	Nuuday A/S	27 April 2022
Mobile communication	29955fgh	Nuuday A/S	27 April 2022
Mobile communication	29956fgh	Nuuday A/S	27 April 2022
Mobile communication	29957fgh	Nuuday A/S	27 April 2022
Mobile communication	29958fgh	Nuuday A/S	27 April 2022
Mobile communication	29959fgh	Nuuday A/S	27 April 2022
Mobile communication	51651fgh	Nuuday A/S	27 April 2022
Mobile communication	51654fgh	Nuuday A/S	27 April 2022
Mobile communication	51657fgh	Nuuday A/S	27 April 2022
Mobile communication	51692fgh	Nuuday A/S	27 April 2022
Mobile communication	51696fgh	Nuuday A/S	27 April 2022
Mobile communication	61210fgh	Nuuday A/S	27 April 2022
Mobile communication	61211fgh	Nuuday A/S	27 April 2022
Mobile communication	61212fgh	Nuuday A/S	27 April 2022
Mobile communication	61213fgh	Nuuday A/S	27 April 2022
Mobile communication	61214fgh	Nuuday A/S	27 April 2022
Mobile communication	61215fgh	Nuuday A/S	27 April 2022
Mobile communication	61218fgh	Nuuday A/S	27 April 2022
Mobile communication	61219fgh	Nuuday A/S	27 April 2022
Mobile communication	61520fgh	Nuuday A/S	27 April 2022
Mobile communication	61521fgh	Nuuday A/S	27 April 2022
Mobile communication	61522fgh	Nuuday A/S	27 April 2022
Mobile communication	61523fgh	Nuuday A/S	27 April 2022
Mobile communication	61524fgh	Nuuday A/S	27 April 2022
Mobile communication	61526fgh	Nuuday A/S	27 April 2022
Mobile communication	61527fgh	Nuuday A/S	27 April 2022
Mobile communication	61529fgh	Nuuday A/S	27 April 2022
Mobile communication	61533fgh	Nuuday A/S	27 April 2022
Mobile communication	61534fgh	Nuuday A/S	27 April 2022
Mobile communication	61536fgh	Nuuday A/S	27 April 2022
Mobile communication	61537fgh	Nuuday A/S	27 April 2022
Mobile communication	61539fgh	Nuuday A/S	27 April 2022
Mobile communication	61571fgh	Nuuday A/S	27 April 2022
Mobile communication	61577fgh	Nuuday A/S	27 April 2022
Mobile communication	61581fgh	Nuuday A/S	27 April 2022

<i>Type</i>	<i>Numbering resource</i>	<i>Provider</i>	<i>Date of withdrawal</i>
Mobile communication	61588fgh	Nuuday A/S	27 April 2022
Fixed communication	70706fgh	Maxtel.dk ApS	25 May 2022
Fixed communication	72734fgh	Maxtel.dk ApS	25 May 2022
Fixed communication	72738fgh	Maxtel.dk ApS	25 May 2022
Fixed communication	72739fgh	Maxtel.dk ApS	25 May 2022
Fixed communication	66606fgh	mifon familie	07 June 2022
4-digit short codes for directory enquiry services or special services	1810	TDC Net A/S	30 June 2022
4-digit short codes for directory enquiry services or special services	1851	TDC Net A/S	30 June 2022
4-digit short codes for directory enquiry services or special services	1853	TDC Net A/S	30 June 2022

- Assignments

<i>Type</i>	<i>Numbering resource</i>	<i>Provider</i>	<i>Date of assignment</i>
Fixed communication	39981fgh	TDC Net A/S	01 April 2022
Mobile communication	91308fgh	Greenwave Mobile IoT ApS	22 April 2022
Mobile communication	91309fgh	Greenwave Mobile IoT ApS	22 April 2022
Mobile communication	9240efgh	Greenwave Mobile IoT ApS	22 April 2022
Mobile communication	81379fgh	Greenwave Mobile IoT ApS	22 April 2022
Mobile communication	49817fgh	Greenwave Mobile IoT ApS	22 April 2022
Mobile communication	49819fgh	Greenwave Mobile IoT ApS	22 April 2022
Fixed communication	70603fgh	Nuuday A/S	26 April 2022
Fixed communication	70604fgh	Nuuday A/S	26 April 2022
European harmonised number for harmonised services of social value	116000	TDC Net A/S	27 April 2022
4-digit short codes for directory enquiry services or special services	1818	TDC Net A/S	16 May 2022
Mobile communication	3620efgh	Hi3G Denmark ApS	18 May 2022
Mobile communication	20505fgh	mifon familie	18 May 2022
Fixed communication	39989fgh	TDC Net A/S	18 May 2022
Fixed communication	66600fgh	mifon familie	07 June 2022

Contact:

Agency for Data Supply and Infrastructure  
8 Rentemestervej  
2400 COPENHAGEN NV  
Denmark  
Tel: +45 7254 5500  
E-mail: tele@sdfi.dk  
URL: www.sdfi.dk

## Morocco (country code +212)

Communication of 26.VII.2022:

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

*Description of introduction of new resource  
for national E.164 numbering plan for country code +212:*

- new NDCs below have recently been introduced as follows:

<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 E.164 number</i>	<i>Additional information</i>
	<i>Maximum length</i>	<i>Minimum length</i>		
780	9	9	Mobile services 2G/3G/4G	Médi Telecom <sup>1</sup>
781	9	9	Mobile services 2G/3G/4G	Médi Telecom
782	9	9	Mobile services 2G/3G/4G	Médi Telecom
783	9	9	Mobile services 2G/3G/4G	Médi Telecom

<sup>1</sup>: ORANGE

Contact:

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



## Service Restrictions

See URL: [www.itu.int/pub/T-SP-SR.1-2012](http://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-06)

See URL: [www.itu.int/pub/T-SP-PP.RES.21-2011/](http://www.itu.int/pub/T-SP-PP.RES.21-2011/)

# AMENDMENTS TO SERVICE PUBLICATIONS

Abbreviations used

<b>ADD</b>	Insert	<b>PAR</b>	Paragraph
<b>COL</b>	Column	<b>REP</b>	Replace
<b>LIR</b>	Read	<b>SUP</b>	Delete
<b>P</b>	Page(s)		

## List of Ship Stations and Maritime Mobile Service Identity Assignments (List V) Edition of 2022

### Section VI

**SUP**

**UX04** Ukrspace, 37 Prospect Peremogy, Building 28, Kyiv 03056, Ukraine.  
E-mail: [admin@ukrkosmos.kiev.ua](mailto:admin@ukrkosmos.kiev.ua),  
Tel: +380 44 2418472, Fax: +380 44 2418473,  
Contact Person: Vladimir Kochevykh.

## 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. 69)

**United Kingdom LIR**

<i>Country/ Geographical area</i>	<i>Company Name/Address</i>	<i>Issuer Identifier Number</i>	<i>Contact</i>
United Kingdom	<b>Kigen UK Limited</b> Merlin Place Milton Road Cambridge CB4 0DP Cambridgeshire United Kingdom	<b>89 44 45</b>	Patrick Biget Kigen 930 Route des Dolines 06560 Valbonne France Tel: +33 6 62 51 55 01 E-mail: <a href="mailto:patrick.biget@kigen.com">patrick.biget@kigen.com</a>

**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. 78)

<i>Country or geographical area</i>	<i>MCC+MNC *</i>	<i>Name of Operator/Network</i>
<b>Canada SUP</b>		
	302 290	Airtel Wireless

\* 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 International Signalling Point Codes (ISPC)  
(According to Recommendation ITU-T Q.708 (03/1999))  
(Position on 1 July 2020)**

(Annex to ITU Operational Bulletin No. 1199 – 1.VII.2020)  
(Amendment No. 40)

<i>Country/ Geographical Area</i>		<i>ISPC</i>	<i>DEC</i>	<i>Unique name of the signalling point</i>	<i>Name of the signalling point operator</i>
<b>Sweden ADD</b>		7-208-0	16000	BSG-SMSC2	BSG Estonia OÜ

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](http://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](mailto: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 15.VII.2022, the following countries/geographical areas have updated their national numbering plan on our site:

<i>Country/ Geographical area</i>	<i>Country Code (CC)</i>
Saint Vincent and the Grenadines	+1 784
Tanzania	+255