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| 1303 | 1.XI.2024 | 15.X.2024 |
| 1304 | 15.XI.2024 | 31.X.2024 |
| 1305 | 1.XII.2024 | 15.XI.2024 |
| 1306 | 15.XII.2024 | 29.XI.2024 |
| 1307 | 1.I.2025 | 6.XII.2024 |

# 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.

1283 List of Issuer Identifier Numbers (In accordance with Recommendation ITU-T E.118 (05/2006)) (Position on 31 December 2023)

1280 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 November 2023)

1251 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 1 September 2022)

1199 List of International Signalling Point Codes (ISPC) (According to Recommendation ITU-T Q.708 (03/1999)) (Position on 1 July 2020)

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) 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](http://www.itu.int/ITU-T/inr/roa/index.html)

Approval and deletion of ITU-T Recommendations

By AAP-43, 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.742.2 (01/2024): Functional architecture for distance learning services

– ITU-T F.748.27 (01/2024): Framework and requirements for the construction of 3D intelligent driven digital human application systems

– ITU-T F.749.8 (01/2024): In-vehicle multimedia applets: Framework and functional requirements

– ITU-T F.780.5 (01/2024): Requirements, reference framework and use cases for telemonitoring systems in rapid deployment hospitals

– ITU-T G.650.1 (01/2024): Definitions and test methods for linear, deterministic attributes of single-mode fibre and cable

– ITU-T G.698.5 (01/2024): Multichannel DWDM applications with single-channel optical interfaces in the O-band

– ITU-T G.698.6 (01/2024): Multichannel WDM applications with single-channel optical interfaces in the O-band

– ITU-T G.781 (01/2024): Synchronization layer functions for frequency synchronization based on the physical layer

– ITU-T G.876 (2021) Amd. 1 (01/2024): Management Requirements and Information Model for the optical media network – Amendment 1

– ITU-T G.959.1 (01/2024): Optical transport network physical layer interfaces

– ITU-T G.8013/Y.1731 (2023) Cor. 1 (01/2024): Operation, administration and maintenance (OAM) functions and mechanisms for Ethernet-based networks – Corrigendum 1

– ITU-T G.8021/Y.1341 (2022) Amd. 1 (01/2024): Characteristics of Ethernet transport network equipment functional blocks – Amendment 1

– ITU-T G.8023 (2018) Amd. 2 (01/2024): Characteristics of equipment functional blocks supporting Ethernet physical layer and Flex Ethernet interfaces – Amendment 2

– ITU-T G.8051/Y.1345 (2020) Cor. 1 (01/2024): Management aspects of the Ethernet transport (ET) capable network element – Corrigendum 1

– ITU-T G.8052 (01/2024): Protocol-neutral management information model for the Ethernet transport capable network element

– ITU-T G.8121/Y.1381 (2018) Amd. 1 (01/2024): Characteristics of MPLS-TP equipment functional blocks – Amendment 1

– ITU-T G.8151/Y.1374 (2020) Amd. 1 (01/2024): Management aspects of the MPLS-TP network element - Amendment 1

– ITU-T G.8152 (01/2024): Protocol-neutral management information model for the MPLS-TP network element

– ITU-T G.8260 (2022) Amd. 1 (01/2024): Definitions and terminology for synchronization in packet networks – Amendment 1

– ITU-T G.8264/Y.1364 (2017) Amd. 2 (01/2024): Distribution of timing information through packet networks – Amendment 2

– ITU-T G.8271.1/Y.1366.1 (2022) Amd. 2 (01/2024): Network limits for time synchronization in packet networks with full timing support from the network – Amendment 2

– ITU-T G.8272.1 (01/2024): Timing characteristics of enhanced primary reference time clocks

– ITU-T G.8272.2 (01/2024): Timing characteristics of coherent network primary reference time clocks

– ITU-T G.8275 (01/2024): Architecture and requirements for packet-based time and phase distribution

– ITU-T G.8275.1/Y.1369.1 (2022) Amd. 1 (01/2024): Precision time protocol telecom profile for phase/time synchronization with full timing support from the network – Amendment 1

– ITU-T G.8275.2/Y.1369.2 (2022) Amd. 1 (01/2024): Precision time protocol telecom profile for phase/time synchronization with partial timing support from the network – Amendment 1

– ITU-T G.8312 (2020) Amd. 2 (01/2024): Interfaces for metro transport networks – Amendment 2

– ITU-T G.8350 (2022) Amd. 1 (01/2024): Management and Control of metro transport networks – Amendment 1

– ITU-T G.9804.1 (2019) Amd. 2 (01/2024): Higher Speed Passive Optical Networks: Requirements – Amendment 2

– ITU-T G.9806 (2020) Amd. 3 (01/2024): Higher-speed bidirectional, single fibre, point-to-point optical access system (HS-PtP) – Amendment 3

– ITU-T G.9960 (2023) Amd. 1 (01/2024): Unified high-speed wireline-based home networking transceivers – System architecture and physical layer specification – Amendment 1

– ITU-T G.9961 (2023) Amd. 1 (01/2024): Unified high-speed wireline-based home networking transceivers – Data link layer specification – Amendment 1

– ITU-T H.431.1 (01/2024): Functional architecture for cloud virtual reality systems

– ITU-T H.861.0 (V2) (01/2024): Requirements on communication platform for multimedia brain information

– ITU-T H.862.7 (01/2024): Interoperability framework for sleep management services

– ITU-T J.1 (01/2024): Terms, definitions and acronyms for television and sound transmission and integrated broadband cable networks

– ITU-T J.198.2 (01/2024): Physical layer specification for third-generation HiNoC

– ITU-T J.198.3 (01/2024): MAC layer specification for third-generation HiNoC

– ITU-T J.1206 (01/2024): The application programming interface of smart TV operating system

– ITU-T K.37 (01/2024): Low and high frequency EMC mitigation techniques for telecommunication installations and systems – Basic EMC Recommendation

– ITU-T K.38 (01/2024): Radiated emission test procedure for physically large systems

– ITU-T K.83 (01/2024): Monitoring of electromagnetic field levels

– ITU-T K.91 (01/2024): Guidance for assessment, evaluation and monitoring of human exposure to radio frequency electromagnetic fields

– ITU-T K.154 (01/2024): Operating telecommunication facilities using lightning strikes data obtained from Lightning Location Systems

– ITU-T L.100 (01/2024): Optical fibre cables for duct and tunnel application

– ITU-T L.109 (01/2024): Construction of optical/metallic hybrid cables

– ITU-T L.250 (01/2024): Topologies for optical access network

– ITU-T L.312 (01/2024): Optical fibre cable maintenance support, monitoring and testing system for optical fibre cable networks carrying high total optical power

– ITU-T L.1362 (01/2024): Power management capabilities of the future energy telecommunication network nodes. Enhanced interface for power management in Network Function Virtualization (NFV) environments

– ITU-T L.1391 (01/2024): Specification of 5G network sharing and co-construction adapting to climate change mitigation

– ITU-T L.1508 (01/2024): Framework for climate change adaptation in coastal cities using ICT and digital technologies

– ITU-T M.3173.1 (01/2024): Interface for synergy management of cloud and SDN-based networks – Protocol neutral requirements

– ITU-T M.3386 (01/2024): Requirements for the management of network operation cost within AI enhanced Telecom Operation and Management (AITOM) in telecommunication operational aspects

– ITU-T Y.2344 (01/2024): Scenarios and requirements of Intent-Based Network for network evolution

By TSB Circular 169 of 5 January 2024, it was announced that the following ITU-T Recommendations were deleted in accordance with the procedures outlined in Resolution 1:

– ITU-T P.862 (02/2001): Perceptual evaluation of speech quality (PESQ): An objective method for end-to-end speech quality assessment of narrow-band telephone networks and speech codecs

– ITU-T P.862.1 (11/2003): Mapping function for transforming P.862 raw result scores to MOS-LQO

– ITU-T P.862.2 (11/2007): Wideband extension to Recommendation P.862 for the assessment of wideband telephone networks and speech codecs

– ITU-T P.862.3 (11/2007): Application guide for objective quality measurement based on Recommendations P.862, P.862.1 and P.862.2

Service Restrictions

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

|  |  |
| --- | --- |
| Country/geographical area | OB |

|  |  |  |  |
| --- | --- | --- | --- |
| **Seychelles** | **1006 (p.13)** |  |  |
| **Slovakia** | **1007 (p.12)** |  |  |
| **Malaysia** | **1013 (p.5)** |  |  |
| **Thailand** | **1034 (p.5)** |  |  |
| **São Tomé and Principe** | **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/

# 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 2023  
  
Section VI

**SUP**

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Contact Person: Dk Hjk Sahanisah Pg Hj Metali, Head of Global Carrier Services,

Global Business Unit.

**NA01** Antelcom N.V., P.O. Box 103, Willemstad (Curaçao), Netherlands Antilles.

Tel.: +599 9 4631111, Fax: +599 9 4631321, Telex: 1075 irdir na,

Contact Person: R. F. Hato.

List of Issuer Identifier Numbers   
(in accordance with Recommendation ITU-T E.118 (05/2006))  
(Position on 31 December 2023)

(Annex to ITU Operational Bulletin No. 1283 – 1.I.2024)  
(Amendment No. 1)

**Switzerland LIR**

|  |  |  |  |
| --- | --- | --- | --- |
| *Country/ Geographical area* | *Company Name/Address* | *Issuer Identifier Number* | *Contact* |
| Switzerland | **Telecom26 AG** Bahnhofstrasse 10 6300 ZUG | **89 41 31** | Nicola Berardocco Bahnhofstrasse 10 6300 ZUG Tel.: +41 43 500 42 44 Fax: E-mail: nicolab@telecom26.ch |

**Global IIN LIR**

|  |  |  |  |
| --- | --- | --- | --- |
| *Country/ Geographical area* | *Company Name/Address* | *Issuer Identifier Number* | *Contact* |
| Global | **Telecom26 AG** Bahnhofstrasse 10 6300 ZUG Switzerland | **89 883 06** | Nicola Berardocco Bahnhofstrasse 10 6300 ZUG Switzerland Tel.: +41 43 500 42 44 Fax: E-mail: nicolab@telecom26.ch |

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 November 2023)

(Annex to ITU Operational Bulletin No. 1280 – 15.XI.2023)  
(Amendment No. 3)

|  |  |  |
| --- | --- | --- |
| ***Country/Geographical area*** | ***MCC+MNC \**** | ***Operator/Network*** |
| **Estonia SUP** |  |  |
| 248 29 | SkyTel OÜ |
| **Estonia ADD** |  |  |
| 248 33 | Crowdfaster OÜ |
| **Nauru ADD** |  |  |
| 536 03 | Nauru Telikom Corporation |

\_\_\_\_\_\_\_\_\_\_\_\_

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. 65)

| Country/ Geographical Area | | Unique name of the signalling point | Name of the signalling point operator |
| --- | --- | --- | --- |
| ISPC | DEC |
| **Albania SUP** | | | |
| 7-219-5 | 16093 | Bleta sh.p.k. | BLETA ALBANIA |
| **Estonia SUP** | | | |
| 2-092-5 | 4837 | Tallin | OU Top Connect |
| 2-199-3 | 5691 | STP4 | Top Connect OÜ |
| **Ireland ADD** | | | |
| 5-213-4 | 11948 | CLDMSC3 | Eircom Limited |
| 5-213-5 | 11949 | SRLMSC3 | Eircom Limited |
| 5-213-6 | 11950 | CWTMSC3 | Eircom Limited |
| **Ireland LIR** | | | |
| 5-216-2 | 11970 | MSCCL1 | Eircom Limited |
| 5-216-3 | 11971 | MSCKW1 | Eircom Limited |
| 6-246-1 | 14257 | MSC3 | Eircom Limited |
| **Spain SUP** | | | |
| 2-238-4 | 6004 | Madrid | Cableuropa, S.A. |
| 2-239-6 | 6014 |  | Cableuropa, S.A.U. |
| 2-241-0 | 6024 |  | Cableuropa, S.A.U. |
| **United States SUP** | | | |
| 3-022-1 | 6321 | Pompano Beach, FL | Verizon Business Global LLC  (formerly WorldCom, Inc) |
| 3-022-6 | 6326 | San Antonio, TX | Verizon Business Global LLC  (formerly WorldCom, Inc) |
| 3-025-5 | 6349 | Honolulu, HI | Verizon Hawaii International Inc |
| 3-028-5 | 6373 | Miami, FL | UniPlex Telecom Technologies, Inc |
| 3-031-6 | 6398 | Honolulu (2), HI | Verizon Hawaii International Inc |
| 3-031-7 | 6399 | Honolulu (3), HI | Verizon Hawaii International Inc |
| 3-038-5 | 6453 | Miami, FL | Go2Tel.com, Inc |
| 3-039-4 | 6460 | Miami, FL | Go2Tel.com, Inc |
| 3-039-5 | 6461 | Miami, FL | Go2Tel.com, Inc |
| 3-059-1 | 6617 | New York, NY | Verizon Business Global LLC  (formerly WorldCom, Inc) |
| 3-183-6 | 7614 | Jersey City, NJ | SK Telink America, Inc |
| 3-187-5 | 7645 | Holmdale, NJ | Sakon, LLC |
| **United States LIR** | | | |
| 3-021-4 | 6316 | West Orange, NJ | Verizon Business Global LLC |
| 3-021-5 | 6317 | Rialto, CA | Verizon Business Global LLC |
| 3-021-6 | 6318 | San Antonio, TX | Verizon Business Global LLC |
| 3-021-7 | 6319 | Pottstown, PA | Verizon Business Global LLC |
| 3-022-2 | 6322 | Pottstown, PA | Verizon Business Global LLC |
| 3-032-4 | 6404 | Rialto, CA | Verizon Business Global LLC |
| 3-032-5 | 6405 | Pompano Beach, FL | Verizon Business Global LLC |
| 3-045-1 | 6505 | Richardson, TX | Verizon Business Global LLC |
| 3-045-3 | 6507 | Pottstown, PA | Verizon Business Global LLC |
| 3-053-2 | 6570 | Elmsford, NY | MCI International, LLC |
| 3-056-0 | 6592 | Rialto, CA | Verizon Business Global LLC |
| 3-059-2 | 6618 | San Antonio, TX | Verizon Business Global LLC |
| 3-182-5 | 7605 | Elmsford, NY | Verizon Business Global LLC |
| 3-199-3 | 7739 | Pompano Beach, FL | Verizon Business Global LLC |

\_\_\_\_\_\_\_\_\_\_\_\_

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](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 1.I.2024, the following countries/geographical areas have updated their national numbering plan on our site:

|  |  |
| --- | --- |
| *Country/ Geographical area* | *Country Code (CC)* |
| Bahrain | +973 |
| Malta | +356 |
| Tanzania | +255 |
| Tonga | +676 |