

ITU Operational Bulletin

www.itu.int/itu-t/bulletin

No. **1285**

1.II.2024

(Information received by 15 January 2024) ISSN 1564-5223 (Online)

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

Table of Contents

	<i>Page</i>
GENERAL INFORMATION	
Lists annexed to the ITU Operational Bulletin	3
Approval and deletion of ITU-T Recommendations	4
Service Restrictions	7
Call-Back and alternative calling procedures (Res. 21 Rev. PP-06)	7
AMENDMENTS TO SERVICE PUBLICATIONS	
List of Ship Stations and Maritime Mobile Service Identity Assignments (List V)	8
List of Issuer Identifier Numbers	9
Network Codes (MNC) for the international identification plan for public networks and subscriptions	10
List of International Signalling Point Codes (ISPC)	11
National Numbering Plan	12

<i>Dates of publication of the next Operational Bulletins</i>		<i>Including information received by:</i>
1286	15.II.2024	31.I.2024
1287	1.III.2024	15.II.2024
1288	15.III.2024	1.III.2024
1289	1.IV.2024	15.III.2024
1290	15.IV.2024	25.III.2024
1291	1.V.2024	12.IV.2024
1292	15.V.2024	1.V.2024
1293	1.VI.2024	15.V.2024
1294	15.VI.2024	31.V.2024
1295	1.VII.2024	14.VI.2024
1296	15.VII.2024	28.VI.2024
1297	1.VIII.2024	15.VII.2024
1298	15.VIII.2024	26.VII.2024
1299	1.IX.2024	15.VIII.2024
1300	15.IX.2024	30.VIII.2024
1301	1.X.2024	13.IX.2024
1302	15.X.2024	30.IX.2024
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

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

<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/

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

- BU02** Telekom Brunei Berhad (TelBru), 1st Floor, TelBru HQ Building, Old Airport Site, Berakas BB3510, Brunei Darussalam.
E-mail: sahanisah.metali@telbru.com.bn, Tel.: +673 2322114, Fax: +673 2383800,
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

<i>Country/ Geographical area</i>	<i>Company Name/Address</i>	<i>Issuer Identifier Number</i>	<i>Contact</i>
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

<i>Country/ Geographical area</i>	<i>Company Name/Address</i>	<i>Issuer Identifier Number</i>	<i>Contact</i>
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)

<i>Country/Geographical area</i>	<i>MCC+MNC *</i>	<i>Operator/Network</i>
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)

<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>
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

<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>
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), 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 1.1.2024, the following countries/geographical areas have updated their national numbering plan on our site:

<i>Country/ Geographical area</i>	<i>Country Code (CC)</i>
Bahrain	+973
Malta	+356
Tanzania	+255
Tonga	+676