ITU Operational Bulletin

www.itu.int/itu-t/bulletin

No. **1254** 15.X.2022 (Information received by 30 September 2022) ISSN 1564-5223 (Online)

Table of Contents

www.itu.int

	Dates of publication of the next Operational Bulletins	Including information received by:
1255	1.XI.2022	14.X.2022
1256	15.XI.2022	1.XI.2022
1257	1.XII.2022	15.XI.2022
1258	15.XII.2022	30.XI.2022
1259	1.I.2023	9.XII.2022

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.

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)

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)

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 of ITU-T Recommendations

By AAP-14, 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 L.1333 (09/2022): Carbon data intensity for network energy performance monitoring

– ITU-T Q.3062 (09/2022): Signalling procedures and protocols for enabling interconnection between trustable network entities in support of existing and emerging networks

– ITU-T Q.3063 (09/2022): Signalling procedures of calling line identification authentication

– ITU-T Q.3406 (09/2022): Signalling requirements for telemetry of virtual broadband network services

– ITU-T Q.3721 (09/2022): Procedures for Programming Protocol-Independent Packet Processors (p4) Switch-based vBNG

– ITU-T Q.4069 (09/2022): Testing requirements and procedures for Internet of Things based green data centres

– ITU-T Q.5025 (09/2022): Protocol for managing User Plane function in IMT-2020 network

– ITU-T Y.3079 (09/2022): Information-Centric Networking in networks beyond IMT-2020: Framework of locally enhanced name mapping and resolution

– ITU-T Y.3080 (09/2022): Information-Centric Networking in networks beyond IMT-2020: Requirements and Mechanisms of Transport Layer

– ITU-T Y.3081 (09/2022): Self-Controlled Identity based on Blockchain: Requirements and Framework

– ITU-T Y.3117 (09/2022): Quality of service assurance-related requirements and framework for smart education supported by IMT-2020 and beyond

– ITU-T Y.3118 (09/2022): Requirements and framework for jitter guarantee in large scale networks including IMT-2020 and beyond

– ITU-T Y.3137 (09/2022): Technical requirements for supporting application addressing in edge computing for future networks including IMT-2020

– ITU-T Y.3138 (09/2022): Unified multi-access edge computing for supporting fixed mobile convergence in IMT-2020 networks

– ITU-T Y.3139 (09/2022): Fixed mobile convergence enhancements to support IMT-2020 based software-defined wide area networking service

– ITU-T Y.3158 (09/2022): Local shunting for multi-access edge computing in IMT-2020 networks

– ITU-T Y.3181 (09/2022): Architectural framework for Machine Learning Sandbox in future networks including IMT-2020

– ITU-T Y.3182 (09/2022): Machine learning based end-to-end multi-domain network slice management and orchestration

– ITU-T Y.3537 (09/2022): Cloud computing – Functional requirements of cloud service partner for multi-cloud

– ITU-T Y.3538 (09/2022): Cloud computing - Global management framework of distributed cloud

– ITU-T Y.3655 (09/2022): Big data driven networking - management and control mechanisms

– ITU-T Y.3810 (09/2022): Quantum key distribution network interworking - framework

– ITU-T Y.3811 (09/2022): Quantum key distribution networks - Functional architecture for quality of service assurance

Telephone Service
(Recommendation ITU-T E.164)

Bermuda (country code +1 441)

Communication of 16.IX.2022:

The *Regulatory Authority of Bermuda,* Hamilton, announces the National Numbering Plan of Bermuda, effective 29 April 2022.

Bermuda National & Local Exchange Codes
Country Code +1
Area Code (NPA) 441

Sectoral Provider	Number Allocation
Bermuda Telephone Company Ltd.	+1 441 202 0XXX
	+1 441 223 6XXX
	+1 441 23X XXXX
	+1 441 24X XXXX
	+1 441 261 XXXX
	+1 441 27X XXXX
	+1 441 29X XXXX
	+1 441 824 XXXX
LinkBermuda Ltd	+1 441 4XX XXXX
	+1 441 600 XXXX
	+1 441 69X XXXX
Logic Communications Ltd. *Trading as One Communications*	+1 441 54X XXXX
	+1 441 560 XXXX
	+1 441 589 XXXX
Bermuda Digital Communications Ltd. Trading as One Communications	+1 441 3XX XXXX
	+1 441 7XX XXXX
Telecommunications (Bermuda & West Indies) Ltd. *Trading as Digicel*	+1 441 500 XXXX – +1 441 539 XXXX[1] inclusive
	+1 441 59X XXXX
TeleBermuda International Ltd.	+1 441 601 XXXX
	+1 441 602 XXXX
FKB Net Ltd.	+1 441 620 XXXX
	+1 441 621 XXXX
Bermuda Cablevision Ltd. *Trading as One Communications*	+1 441 222 XXXX
Telecom Networks	+1 441 83X XXXX
	+1 441 89X XXXX
Deltronics Ltd.	+1 441 92X XXXX
	+1 441 65X XXXX
Wave Bermuda Ltd. *Trading as Horizon Communications*	+1-441-85X-XXXX
Paradise Mobile Ltd.	+1-441-90x-xxxx

[1] Note: +1 441 511 XXX is excluded from this number range

Contact:

Regulatory Authority of Bermuda
1st Floor, Craig Appin House,
8 Wesley Street,
HAMILTON HM 11
Bermuda
Tel: +1 441 405 6000
E-mail: contactus@ra.bm
URL: www.ra.bm

Kuwait (country code +965)

Communication of 20.IX.2022:

The *Communication and Information Technology Regulatory Authority (CITRA),* Kuwait City, wishes to reiterate its announcement of August 2021 regarding the national numbering plan of Kuwait.

All Administrations, recognized operating agencies and service providers are kindly requested to initiate the necessary programming of all mentioned ranges into their networks to enable subscribers to access related services.

More particularly, CITRA, wishes to inform that a hotline service to aid citizen abroad, using a 3-digit number "**+965 159**" has been recently launched.

Contact :

Mr. Zuhair M. AlZuhair
Head of Interconnection and Numbering
Communication and Information Technology Regulatory Authority (CITRA)
Al Hamra Tower
13009 KUWAIT CITY
Kuwait
Tel: +965 22330777
Fax: +965 22330607
E-mail: z.alzuhair@citra.gov.kw
URL: www.citra.gov.kw

Communication of 30.VIII.2021:

The *Communication and Information Technology Regulatory Authority (CITRA),* Kuwait City, announces the following update to the National Numbering Plan (NNP) of Kuwait.

The full Kuwait National Numbering Plan (NNP) Policy is available on CITRA website (http://www.citra.gov.kw).

Presentation of national E.164 numbering plan for country code +965:

a)   Overview:

The minimum number length (excluding the country code) is 3 digits
The maximum number length (excluding the country code) is 8 digits

b)   Detail of numbering scheme:

Leading digits of N(S)N (National (Significant) Number)	N(S)N number length		Usage of E.164 number	Additional Information
	Maximum length	Minimum length		
10	3	3	Non-geographic Number	Emergency & Short Numbers
11	3	3	Non-geographic Number	Emergency & Short Numbers
12	3	3	Non-geographic Number	Emergency & Short Numbers
13	3	3	Non-geographic Number	Emergency & Short Numbers
14	3	3	Non-geographic Number	Emergency & Short Numbers

Leading digits of N(S)N (National (Significant) Number)	N(S)N number length		Usage of E.164 number	Additional Information
	Maximum length	Minimum length		
15	3	3	Non-geographic Number	Emergency & Short Numbers
16	3	3	Non-geographic Number	Emergency & Short Numbers
17	3	3	Non-geographic Number	Emergency & Short Numbers
18	7	7	Non-geographic Number	Corporate Numbers
2	8	8	Fixed Telephony Services	MoC
41	8	8	Mobile Telephony Services	Virgin
5	8	8	Mobile Telephony Services	STC
6	8	8	Mobile Telephony Services	Ooredoo
9	8	8	Mobile Telephony Services	Zain

All Kuwaiti eight-digit number ranges starting with the digits (41), (5), (6), and (9) are to be considered valid numbers in Kuwait's National Numbering Plan.

Individual number blocks within these ranges will be allocated to individual licensed operators by CITRA in accordance with the National Numbering Plan "NNP" Policy and in response to valid applications received from the licensed operators.

CITRA does not notify ITU-T when it allocates individual number blocks from these ranges to licensed operators

Contact :

Mr. Zuhair M. AlZuhair
Head of Interconnection and Numbering
Communication and Information Technology Regulatory Authority (CITRA)
P.O. Box 898
Safat 13009
Kuwait
Tel: +965 22330008
Fax: +965 22330607
E-mail: z.alzuhair@citra.gov.kw
URL: www.citra.gov.kw

Zambia (country code +260)

Communication of 28.IX.2022:

The *Zambia Information & Communications Technology Authority (ZICTA)*, Lusaka, announces the following update to the national numbering plan of Zambia:

Presentation of national ITU-T E.164 numbering plan for country code +260

a)   Overview:
    The minimum number length (excluding the country code) is <u>nine (9)</u> digits.
    The maximum number length (excluding the country code) is <u>nine (9)</u> digits.

b)   Detail of numbering plan

NDC (national destination code) or leading digits of N(S)N (national (significant) number)	N(S)N number length		Usage of E.164 number	Additional information
	Maximum length	Minimum length		
1	9	9	Future services	Reserved
20	9	9	Geographic number for fixed telephony services	Reserved
210	9	9	Geographic number for fixed telephony services (area code)	Unusable
211	9	9	Geographic number for fixed telephony services (area code)	Area code for Lusaka Province (assigned to ZAMTEL)
212	9	9	Geographic number for fixed telephony services (area code)	Area code for Copperbelt (assigned to ZAMTEL)
213	9	9	Geographic number for fixed telephony services (area code)	Area code for Livingstone (assigned to ZAMTEL)
214	9	9	Geographic number for fixed telephony services (area code)	Area code for Kasama (assigned to ZAMTEL)
215	9	9	Geographic number for fixed telephony services (area code)	Area code for Kabwe (assigned to ZAMTEL)
216	9	9	Geographic number for fixed telephony services (area code)	Area code for Chipata (assigned to ZAMTEL)
217	9	9	Geographic number for fixed telephony services (area code)	Area code for Solwezi (assigned to ZAMTEL)
218	9	9	Geographic number for fixed telephony services (area code)	Area code for Mongu (assigned to ZAMTEL)
219	9	9	Geographic number for fixed telephony services	Free
22-29	9	9	Geographic number for fixed telephony services (area code)	Free
3	9	9	Non-geographic number for future services	Reserved
4	9	9	Non-geographic number for future services	Reserved
5	9	9	Non-geographic number for future services	Reserved

NDC (national destination code) or leading digits of N(S)N (national (significant) number)	N(S)N number length		Usage of E.164 number	Additional information
	Maximum length	Minimum length		
60-62	9	9	Non-geographic number for VoIP services	Free
63	9	9	Non-geographic number for VoIP services	Assigned to Liquid Telecom Zambia
64-69	9	9	Non-geographic number for VoIP services	Free
70-74	9	9	Non-geographic number for mobile Services	Free
75	9	9	Non-geographic number for mobile services	Assigned to ZAMTEL
76	9	9	Non-geographic number for mobile services	Assigned to MTN
77	9	9	Non-geographic number for mobile services	Assigned to Airtel
78	9	9	Non-geographic number for mobile services	Free
79	9	9	Non-geographic number for mobile services	Free
8	9	9	Non-geographic number for special services (e.g. free-phone numbers, local rate numbers)	Free
90	9	9	Non-geographic number for premium rate services	Free
91-94	9	9	Non-geographic number for mobile services	Free
95	9	9	Non-geographic number for mobile services	Assigned to ZAMTEL
96	9	9	Non-geographic number for mobile services	Assigned to MTN
97	9	9	Non-geographic number for mobile services	Assigned to Airtel
98	9	9	Non-geographic number for mobile services	Assigned to Beeline Telecoms
99	9	9	Non-geographic number for mobile services	Free

Contact:

Mr Elliot Kabalo
Zambia Information & Communications Technology Authority (ZICTA)
Stand No. 4909, Corner of United Nations and Independence Avenues
LUSAKA
Zambia
Tel: +260 211 378200
Fax: +260 211 246701
E-mail: ekabalo@zicta.zm; numbering@zicta.zm
URL: www.zicta.zm

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 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. 71)

Bermuda   ADD

Country/ geographical area	Company Name/Address	Issuer Identifier Number	Contact	Effective date of usage
Bermuda	**Paradise Mobile Ltd.** 3rd Floor, Sofia House 48 Church Street HAMILTON HM12	**89 1 441**	Cesar Cabarcos 3rd Floor, Sofia House 48 Church Street HAMILTON HM12 Tel: +1 844 740 0200 E-mail: contracts@paradisemobile.com	1.XI.2022

Denmark   LIR

Country/ Geographical area	Company Name/Address	Issuer Identifier Number	Contact
Denmark	**Nuuday** Teglholmsgade 1 2450 Kh. SV	**89 45 01**	Nick Papageorge Teglholmsgade 1 2450 Kh. SV Tel: +45 7011 0330 E-mail: nipa@nuuday.dk
Denmark	**Cibicom Mobility ApS** Industriparken 35-37 2750 BALLERUP	**89 45 05**	Troels Schroll Jespersen Industriparken 35-37 2750 BALLERUP Tel: +45 70 11 80 11 E-mail: trje@cibicom.dk
Denmark	**Hi3G Denmark ApS** Fadet 4 1799 COPENHAGEN V	**89 45 06**	Christian Poulsen Fadet 4 1799 COPENHAGEN V Tel: +45 31 20 01 05 E-mail: christian.poulsen@3.dk

Gibraltar   ADD

Country/ Geographical area	Company Name/Address	Issuer Identifier Number	Contact	Effective date of usage
Gibraltar	**GIBFIBRE Ltd** Burns House Town Range No. 19 GIBRALTAR GX11 1AA	**89 350 03**	GIBFIBRE Ltd Suite 14 Watergardens 5 Waterford Road Gibraltar GX11 1AA Tel: +350 225 00000 E-mail:mobile@gibfibre.com	24.VIII.2022

Liechtenstein   LIR

Country/ Geographical area	Company Name/Address	Issuer Identifier Number	Contact
Liechtenstein	**SORACOM CORPORATION, LTD.** 16 Great Queen Street, Covent Garden LONDON WC2B 5AH (United Kingdom)	**89 423 10**	Ken Otsuki 16 Great Queen Street Covent Garden LONDON WC2B 5AH (United Kingdom) Tel: +44 203290 9033 E-mail: contact.int@soracom.io

United Kingdom   ADD

Country/ geographical area	Company Name/Address	Issuer Identifier Number	Contact	Effective date of usage
United Kingdom	**Telet Research (N.I.) Limited** 14 Great College St LONDON SW1P 3RX	**89 44 09**	James Body 14 Great College St LONDON SW1P 3RX Tel: +44 20 8002 0000 E-mail: enquiries@teletresearch.com	9.VIII.2022

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. 82)

Country/Geographical area	MCC+MNC *	Operator/Network
Canada ADD		
	302 848	Vocom International Telecommunications, Inc
Liechtenstein SUP		
	295 07	First Mobile AG
Liechtenstein ADD		
	295 11	DIMOCO Messaging AG
Liechtenstein LIR		
	295 10	SORACOM CORPORATION, LTD.

_____

* 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. 139)

Country or area/ISO code Company Name/Address	Company Code (carrier code)	Contact
Germany (Federal Republic of) / DEU **ADD**		
Glasfaser Direkt GmbH Erftstrasse 15 - 17 D-50672 COLOGNE	**GFDGER**	Mr Markus Kuepper Tel.: +49 221 71828282 Email: info@glasfaser-direkt.de

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. 44)

Country/ Geographical Area

ISPC	*DEC*	*Unique name of the signalling point*	*Name of the signalling point operator*
Gibraltar	**ADD**		
2-132-6	5158	GibFibre	GibFibre Ltd (GibFibreSpeed)

_____

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 15.IX.2022, the following countries/geographical areas have updated their national numbering plan on our site:

Country/ Geographical area	*Country Code (CC)*
Congo	+242
Faroe Islands	+298
Germany	+49
Kazakhstan	+7
Liberia	+231