# ITU Operational Bulletin

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## Table of Contents

| *Dates of publication of the next Operational Bulletins* | | *Including information received by:* |
|---|---|---|
| 1260 | 15.I.2023 | 19.XII.2023 |
| 1261 | 1.II.2023 | 13.I.2023 |
| 1262 | 15.II.2023 | 31.I.2023 |
| 1263 | 1.III.2023 | 14.II.2023 |
| 1264 | 15.III.2023 | 28.II. 2023 |
| 1265 | 1.IV.2023 | 15.III.2023 |
| 1266 | 15.IV.2023 | 31.III.2023 |
| 1267 | 1.V.2023 | 12.IV.2023 |
| 1268 | 15.V.2023 | 30.IV.2023 |
| 1269 | 1.VI.2023 | 12.V.2023 |
| 1270 | 15.VI.2023 | 1.VI.2023 |
| 1271 | 1.VII.2023 | 15.VI.2023 |
| 1272 | 15.VII.2023 | 30.VI.2023 |
| 1273 | 1.VIII.2023 | 14.VII.2023 |
| 1274 | 15.VIII.2023 | 28.VII.2023 |
| 1275 | 1.IX.2023 | 11.VIII.2023 |
| 1276 | 15.IX.2023 | 31.VIII.2023 |
| 1277 | 1.X.2023 | 15.IX.2023 |
| 1278 | 15.X.2023 | 29.IX.2023 |
| 1279 | 1.XI.2023 | 13.X.2023 |
| 1280 | 15.XI.2023 | 1.XI.2023 |
| 1281 | 1.XII.2023 | 15.XI.2023 |
| 1282 | 15.XII.2023 | 30.XI.2023 |
| 1283 | 1.I.2024 | 8.XII.2023 |

# 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-19, 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.742.1 (12/2022): Requirements for smart class based on artificial intelligence
– ITU-T F.743.18 (12/2022): Requirements for IMT-2020 ultra-high definition surveillance camera
– ITU-T F.743.19 (12/2022): Requirements for intelligent surveillance camera in intelligent video surveillance systems
– ITU-T F.743.22 (12/2022): Requirements and architecture of algorithm training system for intelligent video surveillance
– ITU-T F.746.14 (12/2022): Requirements and reference framework for cloud virtual reality systems
– ITU-T F.746.15 (12/2022): Requirements for smart broadband network gateway in multimedia content transmission
– ITU-T F.746.16 (12/2022): Technical requirements and evaluation methods of intelligent levels of intelligent customer service systems
– ITU-T F.746.17 (12/2022): Requirements for media processing services
– ITU-T F.747.11 (12/2022): Requirements for intelligent surface-defect detection service in industrial production line
– ITU-T F.747.12 (12/2022): Requirements for artificial intelligence based machine vision system in smart logistics warehouse
– ITU-T F.748.17 (12/2022): Technical specification for artificial intelligence cloud platform: AI model development
– ITU-T F.748.18 (12/2022): Metric and evaluation methods for AI-enabled multimedia application computing power benchmark
– ITU-T F.748.19 (12/2022): Framework for audio structuralizing based on deep neural network
– ITU-T F.748.20 (12/2022): Technical framework for deep neural network model partition and collaborative execution
– ITU-T F.748.21 (12/2022): Requirements and framework for feature-based distributed intelligent systems
– ITU-T F.751.5 (12/2022): Requirements for distributed ledger technology-based power grid data management
– ITU-T F.751.6 (12/2022): Performance assessment methods for distributed ledger technology platforms
– ITU-T F.751.7 (12/2022): Functional assessment methods for distributed ledger technology platforms
– ITU-T F.760.1 (12/2022): Requirements and reference framework for emergency rescue systems
– ITU-T F.780.3 (12/2022): Use cases and requirements for ultra-high-definition teleconsulting system
– ITU-T G.168 (2015) Cor. 1 (12/2022): Digital network echo cancellers: Reference error corrections
– ITU-T H.222.0 (2021) Cor. 1 (12/2022): Information technology - Generic coding of moving pictures and associated audio information: Systems: Adding missing field compatibleProfileSetsPresent
– ITU-T H.222.0 (2021) Amd. 1 (12/2022): Information technology - Generic coding of moving pictures and associated audio information: Systems: Carriage of LCEVC and other improvements
– ITU-T H.245 (2022) Cor. 1 (12/2022): Control protocol for multimedia communication: ASN.1 error corrections
– ITU-T H.627.3 (12/2022): Protocols for intelligent video surveillance systems
– ITU-T H.644.5 (12/2022): Functional architecture of content request routing service in multimedia content delivery networks
– ITU-T H.845.10 (12/2022): Conformance of ITU-T H.810 personal health system: Personal Health Devices interface Part 5J: Insulin pump
– ITU-T L.1480 (12/2022): Enabling the Net Zero transition: Assessing how the use of ICT solutions impacts GHG emissions of other sectors
– ITU-T L.1481 (12/2022): Guidance on how to address Connect2030 targets on net abatement
– ITU-T T.808 (V2) (12/2022): Information technology – JPEG 2000 image coding system: Interactivity tools, APIs and protocols

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

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

**France (country code +33)**

Communication of 7.XII.2022:

The *Autorité de Régulation des Communications Électroniques, des Postes et de la Distribution de la Presse (Arcep)*, Paris, announces the following national numbering plan in France:

a) Overview:

The minimum number length (excluding the country code) is **4** digits

The maximum number length (excluding the country code) is **13** digits

b) Link to the national database (or any applicable list) with assigned ITU-T E.164 numbers within the national numbering plan (if any):
https://extranet.arcep.fr/portail/LinkClick.aspx?fileticket=PBA1WK-wnOU%3d&tabid=217&portalid=0&mid=850

c) Link to the real-time database reflecting ported ITU-T E.164 numbers (if any): Not publicly available.

d) 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 | | |
| 110 to 199 | 9 digits | 9 digits | *Geographic numbers* | ***Usage will become for non-geographic numbers on 1st January 2023*** |
| 210 to 261 | 9 digits | 9 digits | *Geographic numbers* | ***Usage will become for non-geographic numbers on 1st January 2023*** |
| 264 to 268 | 9 digits | 9 digits | *Geographic numbers* | ***Usage will become for non-geographic numbers on 1st January 2023*** |
| 270 to 299 | 9 digits | 9 digits | *Geographic numbers* | ***Usage will become for non-geographic numbers on 1st January 2023*** |
| 310 to 399 | 9 digits | 9 digits | *Geographic numbers* | ***Usage will become for non-geographic numbers on 1st January 2023*** |
| 410 to 499 | 9 digits | 9 digits | *Geographic numbers* | ***Usage will become for non-geographic numbers on 1st January 2023*** |
| 516 to **525** ~~**589**~~ | 9 digits | 9 digits | *Geographic numbers* | ***Usage will become for non-geographic numbers on 1st January 2023*** |
| **531 to 589** | **9 digits** | **9 digits** | ***Geographic numbers*** | ***Usage will become for non-geographic numbers on 1st January 2023*** |

| 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 | | |
| 601 to 638 | 9 digits | 9 digits | *Mobile numbers* | |
| 640 to 652 | 9 digits | 9 digits | *Mobile numbers* | |
| 653 to 655 | 9 digits | 9 digits | *MSRN codes* | |
| 656 to 689 | 9 digits | 9 digits | *Mobile numbers* | |
| 695 | 9 digits | 9 digits | *Mobile numbers* | |
| 698 to 699 | 9 digits | 9 digits | *Mobile numbers* | |
| 7000 to 7004 | 13 digits | 13 digits | *Mobile numbers for machine to machine* | |
| 730 to 789 | 9 digits | 9 digits | *Mobile numbers* | |
| 800 to 805 | 9 digits | 9 digits | *Freephone services* | |
| 806 to 809 | 9 digits | 9 digits | *Standard rate services* | |
| 810 to 829 | 9 digits | 9 digits | *Premium rate services* | |
| **836** | **9 digits** | **9 digits** | ***Data services*** | ***Resources will disappear on 1st January 2031*** |
| **860** | **9 digits** | **9 digits** | ***Dial-up internet access*** | ***Resources will disappear on 1st January 2031*** |
| **868** | **9 digits** | **9 digits** | ***Dial-up internet access*** | ***Resources will disappear on 1st January 2031*** |
| 890 to 899 | 9 digits | 9 digits | *Premium rate services* | |
| **9010 to 9014** | **13 digits** | **13 digits** | ***Non-geographic numbers for machine to machine*** | ***New resources on 1st January 2024*** |
| **937 to 938** | **9 digits** | **9 digits** | ***Non-geographic numbers for exchange with a platform*** | ***New resources on 1st January 2023*** |
| **9390 to 9394** | **9 digits** | **9 digits** | ***Non-geographic numbers for exchange with a platform*** | ***New resources on 1st January 2023*** |
| 950 to 975 | 9 digits | 9 digits | *Non-geographic numbers* | |
| 977 to 998 | 9 digits | 9 digits | *Non-geographic numbers* | |
| **1000 to 1099** | **4 digits** | **4 digits** | ***Short numbers for operator's support*** | |
| **3000 to 3199** | **4 digits** | **4 digits** | ***Short numbers for freephone services*** | |
| **3200 to 3999** | **4 digits** | **4 digits** | ***Short numbers for premium rate services*** | |
| **118000 to 118999** | **6 digits** | **6 digits** | ***Short numbers for directory enquiry services*** | |

Contact:

Autorité de Régulation des Communications Électroniques, des Postes et de la Distribution de la Presse (Arcep)
14 rue Gerty Archimède
75613 Paris Cedex 12
France
Tel: +33 1 40 47 72 83
E-mail: numerotation@arcep.fr
URL: https://extranet.arcep.fr/portail/Communicationsélectroniques/Numérotation.aspx

**Guadeloupe (French Department of) (country code +590) (including French part of Saint Martin)**

Communication of 7.XII.2022:

The *Autorité de Régulation des Communications Électroniques, des Postes et de la Distribution de la Presse (Arcep)*, Paris, announces the following numbering plan in Guadeloupe:

a) Overview:

The minimum number length (excluding the country code) is **9** digits

The maximum number length (excluding the country code) is **12** digits

b) Link to the national database (or any applicable list) with assigned ITU-T E.164 numbers within the national numbering plan (if any):
https://extranet.arcep.fr/portail/LinkClick.aspx?fileticket=PBA1WK-wnOU%3d&tabid=217&portalid=0&mid=850

c) Link to the real-time database reflecting ported ITU-T E.164 numbers (if any): Not publicly available.

d) 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 | | |
| 590 | 9 digits | 9 digits | *Fixed telephone service – Geographic numbers* | ***Usage will become for non-geographic numbers on 1st January 2023*** |
| 690 to 691 | 9 digits | 9 digits | *Mobile numbers* | |
| 7005 | 12 digits | 12 digits | *Mobile numbers for machine to machine* | |
| **7090** | **9 digits** | **9 digits** | ***MSRN*** | ***New resources on 1st January 2024*** |
| **9015** | **12 digits** | **12 digits** | ***Non-geographic numbers for machine to machine*** | ***New resources on 1st January 2024*** |
| **9395** | **9 digits** | **9 digits** | ***Non-geographic numbers for exchange with a platform*** | ***New resources on 1st January 2023*** |
| 9760 to 9761 | 9 digits | 9 digits | *Non-geographic numbers* | |
| 9768 | 9 digits | 9 digits | *Non-geographic numbers* | |

Contact:

Autorité de Régulation des Communications Électroniques, des Postes et de la Distribution de la Presse (Arcep)
Numerotation
14 rue Gerty Archimède
75613 Paris Cedex 12
France
Tel: +33 1 40 47 72 83
E-mail: numerotation@arcep.fr
URL: https://extranet.arcep.fr/portail/Communicationsélectroniques/Numérotation.aspx

**French Guiana (country code +594)**

Communication of 7.XII.2022:

The *Autorité de Régulation des Communications Électroniques, des Postes et de la Distribution de la Presse (Arcep)*, Paris, announces the following numbering plan in French Guiana:

a) Overview:

The minimum number length (excluding the country code) is **9** digits

The maximum number length (excluding the country code) is **12** digits

b) Link to the national database (or any applicable list) with assigned ITU-T E.164 numbers within the national numbering plan (if any):
https://extranet.arcep.fr/portail/LinkClick.aspx?fileticket=PBA1WK-wnOU%3d&tabid=217&portalid=0&mid=850

c) Link to the real-time database reflecting ported ITU-T E.164 numbers (if any): Not publicly available.

d) 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 | | |
| 594 | 9 digits | 9 digits | *Fixed telephone service – Geographic numbers* | ***Usage will become for non-geographic numbers on 1st January 2023*** |
| 694 | 9 digits | 9 digits | *Mobile numbers* | |
| 7006 | 12 digits | 12 digits | *Mobile numbers for machine to machine* | |
| **70930 to 70934** | **9 digits** | **9 digits** | ***MSRN*** | ***New resources on 1st January 2024*** |
| **9016** | **12 digits** | **12 digits** | ***Non-geographic numbers for machine to machine*** | ***New resources on 1st January 2024*** |
| **9396** | **9 digits** | **9 digits** | ***Non-geographic numbers for exchange with a platform*** | ***New resources on 1st January 2023*** |
| 9764 to 9765 | 9 digits | 9 digits | *Non-geographic numbers* | |

Contact:

Autorité de Régulation des Communications Électroniques, des Postes et de la Distribution de la Presse (Arcep)
Numerotation
14 rue Gerty Archimède
75613 Paris Cedex 12
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E-mail: numerotation@arcep.fr
URL: https://extranet.arcep.fr/portail/Communicationsélectroniques/Numérotation.aspx

**Martinique (French Department of) (country code +596)**

Communication of 7.XII.2022:

The *Autorité de Régulation des Communications Électroniques, des Postes et de la Distribution de la Presse (Arcep)*, Paris, announces the following numbering plan in Martinique:

a) Overview:

The minimum number length (excluding the country code) is **9** digits

The maximum number length (excluding the country code) is **12** digits

b) Link to the national database (or any applicable list) with assigned ITU-T E.164 numbers within the national numbering plan (if any):
https://extranet.arcep.fr/portail/LinkClick.aspx?fileticket=PBA1WK-wnOU%3d&tabid=217&portalid=0&mid=850

c) Link to the real-time database reflecting ported ITU-T E.164 numbers (if any): Not publicly available.

d) 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 | | |
| 596 | 9 digits | 9 digits | *Fixed telephone service – Geographic numbres* | ***Usage will become for non-geographic numbers on 1st January 2023*** |
| 696 to 697 | 9 digits | 9 digits | *Mobile numbers* | |
| 7007 | 12 digits | 12 digits | *Mobile numbers for machine to machine* | |
| **7091** | **9 digits** | **9 digits** | ***MSRN*** | ***New resources on 1st January 2024*** |
| **9017** | **12 digits** | **12 digits** | ***Non-geographic numbers for machine to machine*** | ***New resources on 1st January 2024*** |
| **9397** | **9 digits** | **9 digits** | ***Non-geographic numbers for exchange with a platform*** | ***New resources on 1st January 2023*** |
| 9766 to 9767 | 9 digits | 9 digits | *Non-geographic numbers* | |

Contact:

Autorité de Régulation des Communications Électroniques, des Postes et de la Distribution de la Presse (Arcep)
Numerotation
14 rue Gerty Archimède
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URL: https://extranet.arcep.fr/portail/Communicationsélectroniques/Numérotation.aspx

**French Departments and Territories in the Indian Ocean (country code +262)**

Communication of 7.XII.2022:

The *Autorité de Régulation des Communications Électroniques, des Postes et de la Distribution de la Presse (Arcep)*, Paris, announces the following numbering plan:

a) Overview:

The minimum number length (excluding the country code) is **9** digits

The maximum number length (excluding the country code) is **12** digits

b) Link to the national database (or any applicable list) with assigned ITU-T E.164 numbers within the national numbering plan (if any):
https://extranet.arcep.fr/portail/LinkClick.aspx?fileticket=PBA1WK-wnOU%3d&tabid=217&portalid=0&mid=850

c) Link to the real-time database reflecting ported ITU-T E.164 numbers (if any): Not publicly available.

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 | | |
| 262 to 263 | 9 digits | 9 digits | *Fixed telephone service – Geographic numbres* | ***Usage will become for non-geographic numbers on 1st January 2023*** |
| 269 | 9 digits | 9 digits | *Fixed telephone service – Geographic numbres* | ***Usage will become for non-geographic numbers on 1st January 2023*** |
| 639 | 9 digits | 9 digits | *Mobile numbers* | |
| 692 to 693 | 9 digits | 9 digits | *Mobile numbers* | |
| 7008 to 7009 | 12 digits | 12 digits | *Mobile numbers for machine to machine* | |
| **7092** | **9 digits** | **9 digits** | ***MSRN*** | ***New resources on 1st January 2024*** |
| **70935 to 70939** | **9 digits** | **9 digits** | ***MSRN*** | ***New resources on 1st January 2024*** |
| **9018 to 9019** | **12 digits** | **12 digits** | ***Non-geographic numbers for machine to machine*** | ***New resources on 1st January 2024*** |
| **9398 to 9399** | **9 digits** | **9 digits** | ***Non-geographic numbers for exchange with a platform*** | ***New resources on 1st January 2023*** |
| 9762 to 9763 | 9 digits | 9 digits | *Non-geographic numbers* | |
| 9769 | 9 digits | 9 digits | *Non-geographic numbers* | |

Contact:

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E-mail: numerotation@arcep.fr
URL: https://extranet.arcep.fr/portail/Communicationsélectroniques/Numérotation.aspx

**Saint Pierre and Miquelon (Collectivité territoriale de la République française) (country code +508)**

Communication of 7.XII.2022:

The *Autorité de Régulation des Communications Électroniques, des Postes et de la Distribution de la Presse (Arcep)*, Paris, announces the following numbering plan:

a) Overview:

The minimum number length (excluding the country code) is **9** digits

The maximum number length (excluding the country code) is **9** digits

b) Link to the national database (or any applicable list) with assigned ITU-T E.164 numbers within the national numbering plan (if any):
https://extranet.arcep.fr/portail/LinkClick.aspx?fileticket=PBA1WK-wnOU%3d&tabid=217&portalid=0&mid=850

c) Link to the real-time database reflecting ported ITU-T E.164 numbers (if any): Not publicly available.

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 | | |
| 508 | 9 digits | 9 digits | *Fixed and mobile telephone services* | |
| **70840 to 70845** | **9 digits** | **9 digits** | ***Mobile numbers*** | ***New resources on 1st January 2023*** |
| **70850 to 70855** | **9 digits** | **9 digits** | ***Mobile numbers*** | ***New resources on 1st January 2023*** |
| **70856 to 70859** | **9 digits** | **9 digits** | ***MSRN*** | ***New resources on 1st January 2024*** |

Contact:

Autorité de Régulation des Communications Électroniques, des Postes et de la Distribution de la Presse (Arcep)
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14 rue Gerty Archimède,
75613 Paris Cedex 12
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Tel: +33 1 40 47 72 83
E-mail: numerotation@arcep.fr
URL: https://extranet.arcep.fr/portail/Communicationsélectroniques/Numérotation.aspx

## 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 International Monitoring Stations (List VIII) Edition of 2019

(Amendment No. 3)

**PART I**

**STATIONS IN THE TERRESTRIAL RADIOCOMMUNICATION SERVICES**

**BEL – Belgium**

**SUP** Station**: CCRM**

**SUP** Station**: IBPT-NCS**

**P** 1 **ADD** **by alphabetical order**

Station: **Anderlecht**

| Name of the station | Postal address | Telephone, Telefax, Electronic-mail |
|---|---|---|
| **Anderlecht** | 1424, Chaussée de Mons<br>1070 Anderlecht<br>Belgique | PHONE: +32 2 2268800<br>PHONE: +32 2 2268801<br>EMAIL: monitoring.ncs@ibpt.be<br>EMAIL: ncs-fr@bipt.be<br>EMAIL: ncs-nl@ibpt.be |

| Geographical coordinates | Types of measurements | Ranges of frequencies for each measurement | Hours of service (UTC) | Remarks |
|---|---|---|---|---|
| 50°48'45"N<br>004°17'28"E | Frequency measurements | 8 kHz – 8 GHz | 0700-1600 | Except Saturdays, Sundays and public holidays. Any other times on request. |
| 50°48'45"N<br>004°17'28"E | Field strength or power flux-density measurements | 8 kHz – 8 GHz | 0700-1600 | Except Saturdays, Sundays and public holidays. Any other times on request. |
| 50°48'45"N<br>004°17'28"E | Bandwidth measurements | 8 kHz – 8 GHz | 0700-1600 | Except Saturdays, Sundays and public holidays. Any other times on request. |
| 50°48'45"N<br>004°17'28"E | Direction-finding measurements | 20 – 8000 MHz | 0700-1600 | Except Saturdays, Sundays and public holidays. Any other times on request. |
| 50°48'45"N<br>004°17'28"E | Automatic spectrum occupancy surveys | 8 kHz – 8 GHz | H24 | |

Station: **Antwerpen**

| Name of the station | Postal address | Telephone, Telefax, Electronic-mail |
|---|---|---|
| **Antwerpen** | 5, Esmoreitlaan<br>2050 Antwerpen<br>Belgique | PHONE: +32 2 2268800<br>PHONE: +32 2 2268801<br>EMAIL: monitoring.ncs@ibpt.be<br>EMAIL: ncs-fr@bipt.be<br>EMAIL: ncs-nl@ibpt.be |

| Geographical coordinates | Types of measurements | Ranges of frequencies for each measurement | Hours of service (UTC) | Remarks |
|---|---|---|---|---|
| 51°13'59"N<br>004°23'01"E | Frequency measurements | 8 kHz – 8 GHz | 0700-1600 | Except Saturdays, Sundays and public holidays. Any other times on request. |
| 51°13'59"N<br>004°23'01"E | Field strength or power flux-density measurements | 8 kHz – 8 GHz | 0700-1600 | Except Saturdays, Sundays and public holidays. Any other times on request. |
| 51°13'59"N<br>004°23'01"E | Bandwidth measurements | 8 kHz – 8 GHz | 0700-1600 | Except Saturdays, Sundays and public holidays. Any other times on request. |
| 51°13'59"N<br>004°23'01"E | Direction-finding measurements | 20 – 8000 MHz | 0700-1600 | Except Saturdays, Sundays and public holidays. Any other times on request. |
| 51°13'59"N<br>004°23'01"E | Automatic spectrum occupancy surveys | 8 kHz – 8 GHz | H24 | Except Saturdays, Sundays and public holidays. Any other times on request. |

Station: **Gent**

| Name of the station | Postal address | Telephone, Telefax, Electronic-mail |
|---|---|---|
| **Gent** | Bruggravenlaan<br>30-32, 9000 Gent<br>Belgique | PHONE: +32 2 2268800<br>PHONE: +32 2 2268801<br>EMAIL: monitoring.ncs@ibpt.be<br>EMAIL: ncs-fr@bipt.be<br>EMAIL: ncs-nl@ibpt.be |

| Geographical coordinates | Types of measurements | Ranges of frequencies for each measurement | Hours of service (UTC) | Remarks |
|---|---|---|---|---|
| 51°02'03"N<br>003°43'09"E | Frequency measurements | 8 kHz – 8 GHz | 0700-1600 | Except Saturdays, Sundays and public holidays. Any other times on request. |
| 51°02'03"N<br>003°43'09"E | Field strength or power flux-density measurements | 8 kHz – 8 GHz | 0700-1600 | Except Saturdays, Sundays and public holidays. Any other times on request. |

| Geographical coordinates | Types of measurements | Ranges of frequencies for each measurement | Hours of service (UTC) | Remarks |
|---|---|---|---|---|
| 51°02'03"N<br>003°43'09"E | Bandwidth measurements | 8 kHz – 8 GHz | 0700-1600 | Except Saturdays, Sundays and public holidays. Any other times on request. |
| 51°02'03"N<br>003°43'09"E | Direction-finding measurements | 20 – 8000 MHz | 0700-1600 | Except Saturdays, Sundays and public holidays. Any other times on request. |
| 51°02'03"N<br>003°43'09"E | Automatic spectrum occupancy surveys | 8 kHz – 8 GHz | H24 | Except Saturdays, Sundays and public holidays. Any other times on request. |

Station: **Liège**

| Name of the station | Postal address | Telephone, Telefax, Electronic-mail |
|---|---|---|
| **Liège** | 34, Rue Wiertz<br>4000 Liège<br>Belgique | PHONE: +32 2 2268800<br>PHONE: +32 2 2268801<br>EMAIL: monitoring.ncs@ibpt.be<br>EMAIL: ncs-fr@bipt.be<br>EMAIL: ncs-nl@ibpt.be |

| Geographical coordinates | Types of measurements | Ranges of frequencies for each measurement | Hours of service (UTC) | Remarks |
|---|---|---|---|---|
| 50°38'30"N<br>005°33'18"E | Frequency measurements | 8 kHz – 8 GHz | 0700-1600 | Except Saturdays, Sundays and public holidays. Any other times on request. |
| 50°38'30"N<br>005°33'18"E | Field strength or power flux-density measurements | 8 kHz – 8 GHz | 0700-1600 | Except Saturdays, Sundays and public holidays. Any other times on request. |
| 50°38'30"N<br>005°33'18"E | Bandwidth measurements | 8 kHz – 8 GHz | 0700-1600 | Except Saturdays, Sundays and public holidays. Any other times on request. |
| 50°38'30"N<br>005°33'18"E | Direction-finding measurements | 20 – 8000 MHz | 0700-1600 | Except Saturdays, Sundays and public holidays. Any other times on request. |
| 50°38'30"N<br>005°33'18"E | Automatic spectrum occupancy surveys | 8 kHz – 8 GHz | H24 | |

Station: **Ophain**

| Name of the station | Postal address | Telephone, Telefax, Electronic-mail |
|---|---|---|
| **Ophain** | 5, rue des Belles Pierres<br>1421 Ophain<br>Belgique | PHONE: +32 2 2268800<br>PHONE: +32 2 2268801<br>EMAIL: monitoring.ncs@ibpt.be<br>EMAIL: ncs-fr@bipt.be<br>EMAIL: ncs-nl@ibpt.be |

| Geographical coordinates | Types of measurements | Ranges of frequencies for each measurement | Hours of service (UTC) | Remarks |
|---|---|---|---|---|
| 50°39'25"N<br>004°20'55"E | Frequency measurements | 10 kHz – 1 GHz | 0700-1600 | Except Saturdays, Sundays and public holidays. Any other times on request. |
| 50°39'25"N<br>004°20'55"E | Field strength or power flux-density measurements | 100 kHz - 30 MHz | 0700-1600 | Except Saturdays, Sundays and public holidays. Any other times on request. |
| 50°39'25"N<br>004°20'55"E | Bandwidth measurements | 10 kHz – 1 GHz | 0700-1600 | Except Saturdays, Sundays and public holidays. Any other times on request. |
| 50°39'25"N<br>004°20'55"E | Direction-finding measurements | 20 MHz – 1.2 GHz | 0700-1600 | Except Saturdays, Sundays and public holidays. Any other times on request. |
| 50°39'25"N<br>004°20'55"E | Automatic spectrum occupancy surveys | 150 kHz - 1 GHz | H24 | Except Saturdays, Sundays and public holidays. Any other times on request. |

Station: **Peutie**

| Name of the station | Postal address | Telephone, Telefax, Electronic-mail |
|---|---|---|
| **Peutie** | 181, Martelarenstraat<br>1800 Vilvoorde<br>Belgique | PHONE: +32 2 2268800<br>PHONE: +32 2 2268801<br>EMAIL: monitoring.ncs@ibpt.be<br>EMAIL: ncs-fr@bipt.be<br>EMAIL: ncs-nl@ibpt.be |

| Geographical coordinates | Types of measurements | Ranges of frequencies for each measurement | Hours of service (UTC) | Remarks |
|---|---|---|---|---|
| 50°55'55"N<br>004°27'57"E | Frequency measurements | 8 kHz – 8 GHz | 0700-1600 | Except Saturdays, Sundays and public holidays. Any other times on request. |
| 50°55'55"N<br>004°27'57"E | Field strength or power flux-density measurements | 8 kHz – 8 GHz | 0700-1600 | Except Saturdays, Sundays and public holidays. Any other times on request. |

| Geographical coordinates | Types of measurements | Ranges of frequencies for each measurement | Hours of service (UTC) | Remarks |
|---|---|---|---|---|
| 50°55'55"N<br>004°27'57"E | Bandwidth measurements | 8 kHz – 8 GHz | 0700-1600 | Except Saturdays, Sundays and public holidays. Any other times on request. |
| 50°55'55"N<br>004°27'57"E | Direction-finding measurements | 20 – 8000 MHz | 0700-1600 | Except Saturdays, Sundays and public holidays. Any other times on request. |
| 50°55'55"N<br>004°27'57"E | Automatic spectrum occupancy surveys | 8 kHz – 8 GHz | H24 | Except Saturdays, Sundays and public holidays. Any other times on request. |

**PART II**

**STATIONS IN THE SPACE RADIOCOMMUNICATION SERVICES**

**OMA - Oman**

**ADD by alphabetical order**

Station: **Satellite Radio Monitoring Station (SRMS)**

| Name of the station | Postal address | Telephone, Telefax, Electronic-mail |
|---|---|---|
| **Satellite Radio Monitoring Station (SRMS)** | P.O.Box 3555<br>P.C.: 111<br>Seeb<br>Sultanate of Oman | PHONE: +968 24222256<br>PHONE: +968 24222274<br>TELEFAX: +968 24222275<br>EMAIL: srms@tra.gov.om |

| |
|---|
| **1. Geographical coordinates** |
| 23°33'09"N<br>058°19'59"E |
| **2. Hours of service** |
| Sunday – Thursday<br>(07:30 AM – 03:00 PM) Oman time<br>(03:30 AM – 11:00 AM) UTC |
| **3. Information on antennas in use** |
| (A1) Two 7.3 m Turning-Head Antennas for frequency range (a), (b)<br>(A2) Two 6.2 m Turning-Head Antennas for frequency range (c), (d)<br>(A3) Two 3.7 m Full Motion Antennas for frequency range (e)<br>(A4) One 3.7 m Full Motion Antenna for frequency range (f), (g), (h) |
| **4. Range of azimuth and elevation angles** |
| (A1) AZI = 94° – 266° _ELE = 5° – 85°<br>(A2) AZI = 94° – 266° _ELE = 5° – 85°<br>(A3) AZI = 5° – 355° _ELE = 5° – 85°<br>(A4) AZI = 5° – 355° _ELE = 5° – 85° |
| **5. Maximum attainable accuracy in determining orbital positions of space stations** |

| |
|---|
| 0.02° |
| **6. Information on system polarization** |
| Linear Polarization (Horizontal and Vertical) in frequency ranges (a), (b), (c), (d), (f), (g), (h).<br>Circular Polarization (RHC and LHC) in frequency ranges (a), (d), (e), (f), (g) |
| **7. System noise temperature** |
| 105 K for frequency range (a)<br>175 K for frequency range (b)<br>145 K for frequency range (c)<br>344 K for frequency range (d)<br>180 K for frequency range (e)<br>497 K for frequency range (f)<br>520 K for frequency range (g)<br>813 K for frequency range (h) |
| **8. Ranges of frequencies with the maximum attainable accuracy of frequency measurement for each frequency range** |
| (a) 3.4 - 4.8 GHz: 1 x $10^{-12}$<br>(b) 10.7 - 12.75 GHz: 1 x $10^{-12}$<br>(c) 7.25 - 7.75 GHz: 1 x $10^{-12}$<br>(d) 17.6 - 22 GHz: 1 x $10^{-12}$<br>(e) 1.4 - 2.4 GHz: 1 x $10^{-12}$<br>(f) 0.08 - 1.3 GHz: 1 x $10^{-12}$<br>(g) 1 - 18 GHz: 1 x $10^{-12}$<br>(h) 18 - 40 GHz: 1 x $10^{-12}$ |
| **9. Ranges of frequencies in which field strength or power flux-density measurements can be performed** |
| All Frequency Ranges. |
| **10. Minimum value of measurable field strength or power flux-density with indication of attainable accuracy of measurement** |
| -190 dBW/m² with ± 1.5 dB at 4 kHz BW. |
| **11. Information available for bandwidth measurements** |
| Bandwidth measurements in accordance with the methods described in the Spectrum Monitoring Handbook. |
| **12. Information available for spectrum occupancy measurements** |
| Automatic and Manual spectrum occupancy measurements are carried out in all frequency ranges. |
| **13. Information available for orbit occupancy measurements** |
| Automatic and Manual orbit occupancy measurements are carried out in all frequency ranges. |

# 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. 75)

**Japan LIR**

| *Country/ Geographical area* | *Company Name/Address* | *Issuer Identifier Number* | *Contact* |
|---|---|---|---|
| Japan | **Panasonic Connect Co. Ltd**<br>4-1-62 Minoshima, Hakata-ku<br>FUKUOKA CITY 812-8531 | **89 81 07** | Hiroki Yamamoto<br>Panasonic Connect Co. Ltd,<br>Technical Strategy Division, Planning Department,<br>Gemba Solutions Company,<br>600 Saedocho, Tsuzuki-ku<br>YOKOHAMA CITY 224-8539<br>Tel: +81 90 4650 1649<br>E-mail:yamamoto.hiroki@jp.panasonic.com |
| Japan | **Marubeni Network Solutions Inc.**<br>Igarashi Bldg, 2-11-5,<br>Shibaura, Minato-ku<br>TOKYO 1080023 | **89 81 08** | Takashi Tsukamoto<br>Igarashi Bldg, 2-11-5, Shibaura, Minato-ku<br>TOKYO 1080023<br>Japan<br>Tel: +81 3 5439 6527<br>Fax: +81 3 5439 6533<br>E-mail:tsukamoto.takashi@marubeni-network.com |

# 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. 87)

| *Country/Geographical area* | *MCC+MNC* | *Operator/Network* |
|---|---|---|
| **Spain ADD** | | |
| | 214 700 | IBERDROLA ESPAÑA, S.A.UNIPERSONAL |
| | 214 701 | ENDESA DISTRIBUCIÓN ELÉCTRICA, S.L. |

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. 142)

| *Country or area/ISO code*<br>*Company Name/Address* | *Company Code*<br>*(carrier code)* | *Contact* |
|---|---|---|
| ***Germany (Federal Republic of) / DEU*** | **LIR** | |
| freenet DLS GmbH<br>Hollerstrasse 126<br>24782 BUEDELSDORF | **MD8000** | Mr Dirk Lembrecht<br>Tel: +49 4331 69 5265<br>Fax: +49 4331 69 3330<br>E-mail: dirk.lembrecht@freenet.ag |
| reputatio systems GmbH & Co. KG<br>Frühlingshalde 24<br>75399 Unterreichenbach | **REPDE** | Mr Stefan Riese<br>Tel: +49 721 50967 - 0<br>Fax: +49 721 50967 - 99<br>E-mail:stephan.riese@reputatio.com |
| ***Germany (Federal Republic of) / DEU*** | **ADD** | |
| Euratel GmbH<br>Luetzowstrasse 11a<br>D-04155 LEIPZIG | **EURA** | Mr Carsten Dieckmann<br>Tel: +49 341 128 5023<br>Fax: +49 341 128 5555<br>E-mail: technik@euratel.de |

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

| *Country/ Geographical area* | *Country Code (CC)* |
|---|---|
| Mongolia | +976 |
| Palau | +680 |