

Recommendation

ITU-T E.1120 (02/2025)

SERIES E: Overall network operation, telephone service, service operation and human factors

International operation – Numbering plan of the international telephone service

Assignment procedures for international telecommunication numbering, naming, addressing and identification (NNAI) resources

ITU-T E-SERIES RECOMMENDATIONS

Overall network operation, telephone service, service operation and human factors

INTERNATIONAL OPERATION	E.100-E.229
OPERATIONAL PROVISIONS RELATING TO CHARGING AND ACCOUNTING IN THE INTERNATIONAL TELEPHONE SERVICE	E.230-E.299
UTILIZATION OF THE INTERNATIONAL TELEPHONE NETWORK FOR NON- TELEPHONY APPLICATIONS	E.300-E.329
ISDN PROVISIONS CONCERNING USERS	E.330-E.349
INTERNATIONAL ROUTING PLAN	E.350-E.399
NETWORK MANAGEMENT	E.400-E.489
TRAFFIC ENGINEERING	E.490-E.799
QUALITY OF TELECOMMUNICATION SERVICES: CONCEPTS, MODELS, OBJECTIVES AND DEPENDABILITY PLANNING	E.800-E.899
OTHER	E.900-E.999
INTERNATIONAL OPERATION	E.1000-E.1999
Numbering plan of the international telephone service	E.1100-E.1199
NETWORK MANAGEMENT	E.4000-E.4999

For further details, please refer to the list of ITU-T Recommendations.

Recommendation ITU-T E.1120

Assignment procedures for international telecommunication numbering, naming, addressing and identification (NNAI) resources

Summary

Recommendation ITU-T E.1120 specifies procedures to be used by an applicant, the Director of the Telecommunication Standardization Bureau (TSB) and the appropriate ITU-T Study Group¹ (currently ITU-T SG2), for the assignment of:

- ITU-T E.164 identification codes (ICs) associated within the shared country codes (CCs) for the networks category of ITU-T E.164, whose combination is designated CC + IC.
- ITU-T E.212 shared mobile country codes for networks and their respective mobile network codes.
- ITU-T E.118.1 assigned global issuer identifier numbers (IINs).
- ITU-T E.218 shared terrestrial trunk radio access mobile network codes.

History*

Edition	Recommendation	Approval	Study Group	Unique ID
1.0	ITU-T E.1120	2025-02-14	2	11.1002/1000/15520

Keywords

Addressing, assignment, identification, naming, numbering, procedure, process, reclamation.

¹ SG2 was responsible for the maintenance of numbering resources within ITU-T when this Recommendation was approved, and is therefore designated the appropriate Study Group. If this maintenance responsibility is transferred, the new SG will then acquire that designation.

* To access the Recommendation, type the URL <https://handle.itu.int/> in the address field of your web browser, followed by the Recommendation's unique ID.

FOREWORD

The International Telecommunication Union (ITU) is the United Nations specialized agency in the field of telecommunications, and information and communication technologies (ICTs). The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of ITU. ITU-T is responsible for studying technical, operating and tariff questions and issuing Recommendations on them with a view to standardizing telecommunications on a worldwide basis.

The World Telecommunication Standardization Assembly (WTSA), which meets every four years, establishes the topics for study by the ITU-T study groups which, in turn, produce Recommendations on these topics.

The approval of ITU-T Recommendations is covered by the procedure laid down in WTSA Resolution 1.

In some areas of information technology which fall within ITU-T's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC.

NOTE

In this Recommendation, the expression "Administration" is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

Compliance with this Recommendation is voluntary. However, the Recommendation may contain certain mandatory provisions (to ensure, e.g., interoperability or applicability) and compliance with the Recommendation is achieved when all of these mandatory provisions are met. The words "shall" or some other obligatory language such as "must" and the negative equivalents are used to express requirements. The use of such words does not suggest that compliance with the Recommendation is required of any party.

INTELLECTUAL PROPERTY RIGHTS

ITU draws attention to the possibility that the practice or implementation of this Recommendation may involve the use of a claimed Intellectual Property Right. ITU takes no position concerning the evidence, validity or applicability of claimed Intellectual Property Rights, whether asserted by ITU members or others outside of the Recommendation development process.

As of the date of approval of this Recommendation, ITU had not received notice of intellectual property, protected by patents/software copyrights, which may be required to implement this Recommendation. However, implementers are cautioned that this may not represent the latest information and are therefore strongly urged to consult the appropriate ITU-T databases available via the ITU-T website at <https://www.itu.int/ITU-T/ipr/>.

© ITU 2025

All rights reserved. No part of this publication may be reproduced, by any means whatsoever, without the prior written permission of ITU.

Table of Contents

		Page
1	Scope	1
2	References.....	1
3	Definitions	2
	3.1 Terms defined elsewhere	2
	3.2 Term defined in this Recommendation	2
4	Abbreviations and acronyms	2
5	Conventions	2
6	Background.....	3
	6.1 Introduction	3
7	General procedures	3
8	Specific E.164 CC + IC reservation and assignment procedures	3
	8.1 Step 1 – Reservation request process	3
	8.2 Step 2 – Reservation process	4
	8.3 Step 3 – Assignment request process	4
	8.4 Step 4 – Assignment process	5
9	Specific E.212 MCC+MNC assignment procedures	6
	9.1 Step 1 – Assignment request process	6
	9.2 Step 2 – Assignment process	6
	9.3 Specific CC+IC and MCC+MNC assignment procedures.....	7
10	Specific E.118.1 global IIN assignment procedures.....	7
	10.3 Step 1 – Assignment request process	7
	10.4 Step 2 – Assignment process	7
11	Specific E.218 (T)MCC+(T)MNC assignment procedures.....	8
	11.1 Step 1 – Assignment request process	8
	11.2 Step 2 – Assignment process	8
12	Reclamation	9
	12.1 Process of reclamation.....	9
13	Appeal procedure against reclamation.....	9
14	Notification of decisions.....	10
15	Publication of assignments	10
	Annex A – The Numbering Coordination Team: Terms of reference	11
	Appendix I – Guidance to applicants.....	13
	Bibliography.....	15

Recommendation ITU-T E.1120

Assignment procedures for international telecommunication numbering, naming, addressing and identification (NNAI) resources

1 Scope

This Recommendation specifies procedures by which applications for the assignment of international telecommunication numbering, naming, addressing and identification (NNAI) resources are reviewed, other than those that are specified in relation to global service definitions, e.g., Universal International Freephone, Universal International Premium Rate and Universal International Shared Cost.

The procedures specified are those elements of the procedure that are within the purview of ITU, and do not include those that are specific to an applicant for or an assignee of NNAI resources.

2 References

The following ITU-T Recommendations and other references contain provisions which, through reference in this text, constitute provisions of this Recommendation. At the time of publication, the editions indicated were valid. All Recommendations and other references are subject to revision; users of this Recommendation are therefore encouraged to investigate the possibility of applying the most recent edition of the Recommendations and other references listed below. A list of the currently valid ITU-T Recommendations is regularly published. The reference to a document within this Recommendation does not give it, as a stand-alone document, the status of a Recommendation.

- | | |
|-----------------|---|
| [ITU-T E.101] | Recommendation ITU-T E.101 (2009), <i>Definitions of terms used for identifiers (names, numbers, addresses and other identifiers) for public telecommunication services and networks in the E-series Recommendations.</i> |
| [ITU-T E.118.1] | Recommendation ITU-T E.118.1 (2023), <i>Allocation, assignment and management of global issuer identifier numbers (IINs).</i> |
| [ITU-T E.164] | Recommendation ITU-T E.164 (2010), <i>The international public telecommunication numbering plan.</i> |
| [ITU-T E.164.1] | Recommendation ITU-T E.164.1 (2008), <i>Criteria and procedures for the reservation, assignment and reclamation of E.164 country codes and associated identification codes (ICs).</i> |
| [ITU-T E.190] | Recommendation ITU-T E.190 (2025), <i>Principles and responsibilities for the management, assignment and reclamation of E-series international numbering resources.</i> |
| [ITU-T E.212] | Recommendation ITU-T E.212 (2024), <i>The international identification plan for public networks and subscriptions.</i> |
| [ITU-T E.218] | Recommendation ITU-T E.218 (2024), <i>Management of the allocation of terrestrial trunk radio Mobile Country Codes.</i> |
| [WTSA Res. 20] | WTSA Resolution 20 (Rev. New Delhi, 2024), <i>Procedures for allocation and management of international telecommunication numbering, naming, addressing and identification resources.</i> |

3 Definitions

3.1 Terms defined elsewhere

The terms defined in [ITU-T E.101] apply, including definitions of terms used for NNAI resources for public telecommunication services and networks.

3.2 Term defined in this Recommendation

This Recommendation defines the following term:

3.2.1 international telecommunication numbering, naming, addressing or identification (NNAI) resource: A numbering, naming, addressing or identification (NNAI) resource that is administered, allocated and assigned by the Director of the Telecommunication Standardization Bureau (TSB) according to relevant ITU-T Recommendations. International NNAI resources can be assigned by the Director of TSB either to Member States, and administered according to national regulations, or to eligible entities according to relevant ITU-T Recommendations.

4 Abbreviations and acronyms

This Recommendation uses the following abbreviations and acronyms:

CC	Country Code
IC	Identification Code
IIN	Issuer Identifier Number
IoT	Internet of Things
M2M	Machine to Machine
MCC	Mobile Country Code
MNC	Mobile Network Code
NCT	Numbering Coordination Team
NNAI	Naming, Numbering, Addressing and Identification
SG	Study Group
(T)MCC	(Terrestrial trunk radio access) Mobile Country Code
(T)MNC	(Terrestrial trunk radio access) Mobile Network Code
TD	Temporary Document
TSB	Telecommunication Standardization Bureau
WP	Working Party
WTSA	World Telecommunications Standards Assembly

5 Conventions

The digit length of the elements of the international telecommunication NNAI resource that are administered by the Director of TSB are indicated using nD+zD, where nD indicates the number of digits of the country code of the resource and the zD indicates the number of digits in the secondary field.

In this Recommendation the terms 'appropriate SG' and 'appropriate ITU-T SG' refer to the ITU-T Study Group that is responsible for the maintenance of numbering resources within ITU-T.