

**Document C14/INF/15-E**  
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## **Note by the Secretary-General**

### **INTERNATIONAL NUMBERING RESOURCES**

#### **Summary**

This document summarizes the status of international numbering resources allocated by ITU

#### **Action required**

The Council is requested to note the document.

#### **References**

[Council Decision 464 \(1996\)](#); [Document C2000/45](#); [Council Resolution 1168](#);  
[Website ITU International Numbering Resources](#)

## **1 Introduction**

This report summarizes the status of international numbering resources (INR) and the criteria of INR allocation.

## **2 International Numbering Resources Overview**

INR refers to numbers, codes, and identifiers specified in ITU-T Recommendations. These numbers and codes are indispensable to the operation of telecommunication networks and services.

**ANNEX A** presents a table of the INR assigned by the Director of TSB and Member State administrations. Most of the INR are hierarchical where a portion of the INR is allocated by TSB to the Member State; and the following portion by the Member State to the entity using the INR or the entity allocating the INR to customers or subscribers. TSB is responsible for the maintenance and publication of these resources.

## **3 Changes in the Telecommunication Environment**

ITU-T Recommendations governing the allocation of these resources were adopted many years ago when most operating agencies were public entities owned by a Member State, or were Sector Members. Hence, there was a basic assumption that assignees of INRs were ITU members.

However, because of deregulation, privatization and competition policy, today only about 6 % of entities assigned INR are ITU members.

Many entities assigned INR are no longer aware of the ITU-T Recommendations governing INR and no longer participate in their elaboration and evolution, resulting in a dissociation from ITU and a significant increase of misuse of INR.

### **3.1 Changes in the allocation criteria of INR**

ITU has evolved the allocation criteria over time through Council decisions and through ITU-T Recommendations resulting in a variety of criteria for INR allocation as follows:

- 1) most INR are allocated free of charge;
- 2) some yield a small one-time cost recovery fee (maximum CHF200); and
- 3) a limited number now require ITU Sector Membership or Associate membership in the relevant ITU-T Study Group.

In 1996, by Decision 464 Council decided to authorize the opening of a special account for Universal International Freephone Number (UIFN) Registration as from 1 July 1996 to be used to receive funds paid for services and to cover the costs of establishing and maintaining the register and to establish the registration fee at CHF 200 per number issued.

In 1998, Recommendation ITU-T E.164.1 (03/98) was prepared by ITU-T Study Group 2 and was approved under the WTSR Resolution No. 1 procedure on 9 March 1998. The criteria included is as follows:

*“8.1.2 The applicant must either be a sector member of the ITU or be an ROA. ROAs that are not ITU sector members are subject to a fee. The details of the fee will be determined by the appropriate ITU organization.”*

In 2000, by Resolution 1155, the Council decided on the price estimation and that ITU-T become the registrar for Universal International Premium Rate Numbers (UIPRN) and Universal International Shared Cost Numbers (UISCN) in accordance with Recommendations ITU-T E.169.2 and ITU-T E.169.3.

In 2001, Council Resolution 1168 authorized ITU to set a one-time registration fee at CHF 100 for ITU International Network Designator ATM End System Address (IND AESA) in accordance with Recommendations ITU-T E.191.1.

In 2006, ITU-T Study Group 2 approved a revision to Recommendation ITU-T E.164.1 changing the criteria as follows:

*“7.1.1 The applicant must be a Member State or Sector Member of the ITU or an Associate of the appropriate ITU-T study group and must maintain its membership as long as it has reserved or is assigned the requested resource.”*

In 2008, ITU-T Study Group 2 approved a revision to Recommendation ITU-T E.212 changing the allocation criteria as follows:

*“A.4.1 The applicant must be a Member State or a Sector Member of the ITU or an Associate Member of the relevant ITU-T Study Group and must maintain its membership as long as it has reserved or is assigned the requested resource.”*

According to Study Group 2 Chairman (December 2005 <http://www.itu.int/md/T05-SG02-C-0020/en>): *“More and more current applicants are not Sector Members and thus should be subject to a fee. Given the difficulty of determining a cost-recovery fee for this specific activity, it is proposed that ITU-T Recommendation E.164.1 be modified. This change would simplify the administration of applications and would help to ensure that resources which are not actually used would be returned, in the case of applicants who would not otherwise be ITU members. In addition, the yearly membership fee would help to finance ongoing follow-up activity for the assigned resources, which includes checking that the annual notifications are received, processing any notifications of potential misuse, etc.”*

The changes to Recommendations ITU-T E.164.1 and ITU-T E.212 have been effective in attracting new members (i.e. 23 new ITU-T members since 2007) and in ensuring an effective use of INR as expected by ITU-T Study Group 2.

Resources allocated to entities that did not take or maintain ITU membership, were reclaimed as show on ITU webpage [https://www.itu.int/net/itu-t/inrdb/e212\\_901.aspx](https://www.itu.int/net/itu-t/inrdb/e212_901.aspx).

#### **4 Conclusion**

There currently exists a lack of harmonization in the INR allocation criteria, in particular the principle of requiring ITU membership as one of the criteria for assignment of an INR.

The relevant ITU-T Study Groups might reconsider the relevant ITU-T Recommendations with a view to align the criteria and improve the assignment process.

ANNEX

Table 1. ITU INTERNATIONAL NUMBERING RESOURCES

Numbers, Codes, or Objects	Relevant ITU-T Recommendation	Conditions of Allocation and/or Registration by ITU-T	Related Database or List and corresponding access rights	Responsible ITU-T Study Group
<b>E.164 Country Codes (Geographic)</b>	<a href="#">Rec. ITU-T E.164.1</a>	Assigned to applicants recognized by ITU or by the UN.  Palau is UN-recognized but not ITU member	<a href="#">Database</a>  Sector Members and Member States	SG2
<b>International Shared Country Codes and associated Identification Codes</b>	<a href="#">Rec. ITU-T E.164.1</a>	Assigned to Member State, Sector Member and Associate of ITU-T SG2 SG2 (RoA before 2006).	<a href="#">Database</a>  Free access	SG2
<b>E.164 numbering resources for trials</b>	<a href="#">Rec. ITU-T E.164.2</a>	ROA or an Administration  (Pay the authorized fee, if applicable, to TSB)	<a href="#">Database</a>  Free access	SG2  Note: No active assignments
<b>IIN</b> (issuer identifier number)	<a href="#">Rec. ITU-T E.118</a>	Registered by ITU  80 CHF (fixed by Council)	<a href="#">Database</a>  Sector Members and Member States	SG2
<b>Geographic MCC</b> (mobile country code)	<a href="#">Rec. ITU-T E.212</a>	Assigned to Member States, countries, or geographical areas	<a href="#">Database</a>  Sector Members and Member States	SG2
<b>MNC</b> (mobile network code)	<a href="#">Rec. ITU-T E.212</a>	ITU notified by Member States	<a href="#">Database</a>  Sector Members and Member States	SG2

<b>International shared MCC+MNC</b>	<a href="#">Rec. ITU-T E.212</a>	Member State, Sector Member and Associate of ITU-T SG2 SG2 (RoA before 2008)	<a href="#">Database</a> Free access	
<b>MCC+MNC used extra-territorially</b>	<a href="#">Rec. ITU-T E.212</a>	ITU notified by Member States	<a href="#">Database</a> Sector Members and Member States	SG2
<b>TMCC</b> (terrestrial trunk radio mobile country code)	<a href="#">Rec. ITU-T E.218</a>	Assigned to Member States	<a href="#">Database</a> Sector Members and Member States	SG2
<b>SANC</b> (signalling area/network code)	<a href="#">Rec. ITU-T Q.708</a>	Assigned to Member States, countries, or geographical areas	<a href="#">Database</a> Sector Members and Member States	SG11
<b>ISPC</b> (international signalling point code)	<a href="#">Rec. ITU-T Q.708</a>	ITU notified by Member States	<a href="#">Database</a> Sector Members and Member States	SG11
<b>DCC (Data Country Codes)</b>	<a href="#">Rec. ITU-T X.121</a>	Assigned to Member States	<a href="#">Annex to OB 976</a> Free access	SG17
<b>DNIC (Data Network Identification Code) with the first digit of embedded DCC restricted to 2-7</b>	<a href="#">Rec. ITU-T X.121</a>	ITU notified by Member States	<a href="#">Annex to OB 977</a> Free access	SG17
<b>DNIC (1120-1999)</b>	<a href="#">Rec. ITU-T X.121</a>	Assigned to International Treaty Organizations and ROA for Global public data networks	<a href="#">Annex I of X.121</a> Free access	SG17
<b>UIFN</b> (Universal International Freephone Number)	<a href="#">Rec. ITU-T E.169.1</a> and <a href="#">E.152</a>	ROA only 200 CHF	<a href="#">Database</a> Free access	SG2
<b>UIPRN</b> (Universal International Premium Rate Numbers)	<a href="#">Rec. ITU-T E.169.2</a> and <a href="#">E.155</a>	ROA only 200 CHF	<a href="#">Database</a> Free access	SG2

<b>ISCN</b> (International Shared Cost Number)	<a href="#">Rec. ITU-T E.169.3</a> and <a href="#">E.154</a>	ROA only 200 CHF	<a href="#">Database</a> Free access	SG2
<b>ITU IND AESA</b> (ITU International Network Designator ATM End System Address)	<a href="#">Rec. ITU-T E.191</a> and <a href="#">E.191.1</a>	Company, corporation or governmental organization that operates a public correspondence service between end users, private networks or other ATM Service Providers using an ATM network 100 CHF	<a href="#">List on ITU website</a> Free access	SG2
<b>UPT (universal personal Telecommunications) Numbers</b>	<a href="#">E.168/E.168.1</a> <a href="#">F.850-853</a>	RoA only Interim procedure now Registration application fee required in future normal procedure, the amount is not decided	<a href="#">Database</a> Free access	SG2 Note: The only assignee now is VISIONng
<b>National Numbering Plans</b>	<a href="#">Rec. ITU-T E.129</a>	ITU notified by Member States	Electronic list on website: <a href="#">National Numbering Plans</a> Free access	SG2
<b>National-only numbers linked with emergency services and other services of social value</b>	<a href="#">Rec. ITU-T E.129</a>	ITU notified by Member States	<a href="#">Database</a> Free access	SG2
<b>ITU Carrier Codes</b>	<a href="#">Rec. ITU-T M.1400</a>	ITU notified by Member States	Electronic list on website: <a href="#">List of ITU Carrier Codes (ICCs)</a> Free access	SG2
<b>Bureaufax Table</b>	<a href="#">Rec. ITU-T F.170</a> Publish in collaboration with UPU	ITU notified by Member States	Electronic list on website: <a href="#">Bureaufax Table</a> Free access	SG2

<b>Country or Geographical Area Codes for non-standard facilities in telematic services</b>	<a href="#">Rec. ITU-T T.35</a>	Assigned to Member States	<a href="#">Annex to OB 1002</a> Free access	SG16
<b>Terminal Provider Codes for non-standard facilities in telematic services</b>	<a href="#">Rec. ITU-T T.35</a>	Assigned by Administration of designated national body		SG16
<b>ENUM Delegations</b>	TSB Circular 105	ITU notified by Member States Collaboration with RIPE NCC	Electronic list on website: <a href="#">Approved Enum delegation</a> <a href="#">Free access</a>	SG2