# Guidance to applicants seeking assignment of E.164 and E.212 global resources

# Introduction

As agreed by ITU-T Study Group 2 at its meeting on 19-28 June 2024 (please refer to document [SG2-TD535/PLEN](https://www.itu.int/md/T22-SG02-240619-TD-PLEN-0535/en)), this document provides guidance to applicants seeking assignment of global resources directly from the ITU. The Numbering Coordination Team (NCT) reviews applications for global resources and provides advice to the Director of the TSB. The applications submitted to the NCT vary in quality and amount of detail provided. This document provides guidance on the preparation of applications that would facilitate the review of the applications by the NCT.

The latest templates for applications can be downloaded here:  
<https://www.itu.int/oth/T0207000003/en>

# Guidance

– All applications should stand alone, e.g., E.212 and E.164 applications should be submitted separately.

– The justification for the application should reflect the purpose for which it is required. At the time of writing, M2M/IoT is not defined as a service. Therefore, when the criteria require a list of planned services, stating that the use of global resource is for M2M/IoT by itself is not sufficient. The applicant should indicate what types of M2M/IoT services will be using the number resources.

– The description of the use of the global resource should include for each resource being applied for:

• the network entities (such as MSC, GW, SMSC) to be used, with the abbreviations spelt out;

• the geographical locations of the network entities (i.e., in at least two countries);

• the messaging that would exist in support of the service that would be implemented;

• the services of other entities in the provision of the service.

– The structure of the numbering plan being applied to the resources once assigned, such as how the assigned resources will be grouped for different use cases and/or different customers.

– The use to be made of the resources by the network entities/technology in support of the planned usage (the routeing plan). In case of voice, clarification should be given as to the nature of the voice service that is to be offered, noting that voice being available in relation to M2M/IoT use is limited in effect to being in effect a closed user group.

– For applications for E.164 resources, the applicant should indicate under which section of E.164.1 they are applying, i.e.:

• Section 6: Country code for global services.

• Section 7: Country code for other global services.

• Section 8: Country codes and associated identification codes for Networks.

• Section 9: Country codes and associated identification codes for multi-use Networks.

– If the application is for E.212 resources only, the applicant should indicate whether they already have E.164 resources allocated or state whether it is the case that E.164 resources are not needed for the service. Once assigned a global ITU-T E.164 CC+IC (two digits), the applicant is also automatically assigned an E.118 Issuer Identifier Number (IIN) Global resource. Once assigned a global E.164 CC+IC (three digits), the applicant is assigned an E.118 IIN global resource if that request is explicitly raised.   
NOTE - Automatic assignment of IIN’s may change in the future after discussions at ITU‑T SG2.

– Statements from the applicant of the realisation of end-to-end control can be either technical (owning all elements of the network), or commercial (utilising the resources of other entities to provide the network, or a combination of both. The detail of this arrangement needs to be submitted as part of the application.

– Statements from the applicant of noting the criteria agreed by SG2 contained in [SG2‑TD107/GEN-R2](https://www.itu.int/md/T17-SG02-170329-TD-GEN-0107/en) (April 2017), copy in the annex below.

– Recurring types of clarifications requested by the NCT: TSB has analysed the questions for clarification sent from the Director of TSB to applicants during the period 2022/2023 as an outcome of analysis of applications by the NCT. A summary of the recurring questions has been prepared in the form of a self-check list in Annex A below. This checklist could be used by applicants before they submit their application(s).

– Guidance on the administrative steps to be taken when submitting responses to requests for clarification: After the review and discussion of application, the NCT may wish to seek clarifications before providing advice to the Director of TSB. In such cases:

1) applicants are advised to respond fully to the specific questions that have been asked in order to reduce delays caused by the NCT seeking further clarifications;

2) if an updated version of the application is submitted, any changes should be clearly indicated in revision marks (track changes).

– Digest of use cases/service definitions for which INRs have already been assigned:

1) applicants may refer to the [t22sg2numapp](https://www.itu.int/ml/lists/arc/t22sg2numapp) mailing list archive, noting that:

a) each application is assessed by the NCT on its own merits, and applicants are responsible for the accuracy and completeness of any documents that they submit; and

b) the NCT frequently seeks clarifications from the submitters during consideration of applications, and therefore the original application distributed on the mailing list should not be considered to be the final form of the application, nor relied up as the basis for drafting applications.

2) applicants may refer to [Q1/2 RGM TD9R1](https://extranet.itu.int/meetings/ITU-T/T22-SG02RGM/Q1-240212/TDs/T22-SG02RGM-Q1-240212-TD-0009-R01.docx) (February 2024), which contains a list of IoT/M2M use cases for which assignments have already been made, recognizing that this list is not exhaustive and does not anticipate future use cases.

# Additional Guidance

All communication by the applicant should be with the Director of the TSB or their representative. There should be no direct communication by the applicant with the members of the NCT.

**Applications for use in IoT deployment**

As agreed by ITU-T Study Group 2 at its 29 March-7 April 2017 meeting (please refer to document [SG2-TD(Rev.2)/GEN](https://www.itu.int/md/T17-SG02-170329-TD-GEN-0107/en)), below may be found guidance for the assignments of resource under E.164.1 and E.212 Annex A. It is therefore relevant for the evaluation of applications for MNCs according to Recommendation E.212 annex A and ICs according to Recommendation E.164.1. It is intended as a living document to be used both as elements to consider for the Number Coordination Team in the evaluation of an assignments/request as per the relevant sections of these recommendations. or for assignees to assess the need of requesting an extension to their assignment. This does not replace or supersede the criteria as defined in the recommendations. Nor do the provisions of this document bind the NCT when it develops advice to be given to the Director. As the time of writing, it would be applicable to MCC 901 and CCs 882 and 883.

# Guidance for IoT services

Global resources can be used on a specific device both for IoT and voice service under the condition

1. it does not duplicate any existing public service in particular the public telephony service which is primarily intended for the exchange of information in the form of speech, whereby users can communicate directly and temporarily between themselves in conversational mode (*taken from E.105*). For example, communications in a closed user group do not duplicate the public telephony service.
2. no sub-assignment of the IC is made by the assignee to a VoIP service provider to use on connected device access. For example, the calls are initiated, routed and terminated entirely on the public telecommunications networks, which includes IP-based networks and dedicated networks such as those on ships and aircrafts, and satellite networks.

Beyond this, if the assignee changes the remit of the services described in the application, this does not require an extension request but needs to be notified in the annual report.

**Annex A:  
Application self-check list**

This annex provides some self-check questions to ensure that commonly missing or insufficient elements of an application are included. This is intended to reduce the number of clarifications needed during the evaluation of an application and therefore expedite their processing.

1. Is it clearly stated whether the request is for reservation or assignment?

2. Has the correct template been used, and all criteria addressed?

3. Is the numbering plan clearly defined, indicating the planned use of subranges, structure of the digits, etc.

4. Has it been stated whether any of the requested resources would be sub-assigned, and in such cases how the resources would be managed?

5. Has a copy of any referenced documents been provided? A reference or URL to an external document is not sufficient.

6. Have all abbreviations been expressed in full, and any special terminology clearly defined? It is recommended to add a glossary of terms and abbreviations to the application.

7. Is a detailed description of the services to be provided, e.g., voice, data, SMS.

8. Are the terminology and descriptions consistent between the text and the figures, such as network diagrams/descriptions. Any diagrams should be clearly legible.

9. Has justification been provided as to why national resources are not appropriate, and why International Numbering Resources are required.

10. Are the details of routing and roaming included for each application?

11. In the case of applications for both E.164 and E.212 resources, is each criterion addressed explicitly as a stand-alone document?

12. Has the applicant affirmed that it will meet the regulatory, licensing, and legal requirements of the countries in which its network will operate and of the country where the applicant is based?

13. Is it clearly stated whether the E.164 resource being applied for is +882 or +883, noting that +883 is the preferred CC for M2M/IoT applications?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_