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SERIES E: OVERALL NETWORK OPERATION,  
TELEPHONE SERVICE, SERVICE OPERATION AND  
HUMAN FACTORS

Operation, numbering, routing and mobile services –  
International operation – Tones in national signalling  
systems

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**Principles and responsibilities for the  
management, assignment and reclamation  
of E-Series international numbering resources**

ITU-T Recommendation E.190

(Previously CCITT Recommendation)

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ITU-T E-SERIES RECOMMENDATIONS

**OVERALL NETWORK OPERATION, TELEPHONE SERVICE, SERVICE OPERATION AND HUMAN FACTORS**

***OPERATION, NUMBERING, ROUTING AND MOBILE SERVICES***

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## **ITU-T RECOMMENDATION E.190**

### **PRINCIPLES AND RESPONSIBILITIES FOR THE MANAGEMENT, ASSIGNMENT AND RECLAMATION OF E-SERIES INTERNATIONAL NUMBERING RESOURCES**

#### **Summary**

This Recommendation contains the principles and responsibilities used in the management, assignment and reclamation of E-Series international numbering resources, e.g. Recommendations E.164 and E.212, under the auspices of the appropriate ITU-T Study Group.

#### **Source**

ITU-T Recommendation E.190 was prepared by ITU-T Study Group 2 (1997-2000) and was approved under the WTSC Resolution No. 1 procedure on the 26th of May 1997.

## FOREWORD

ITU (International Telecommunication Union) is the United Nations Specialized Agency in the field of telecommunications. The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of the ITU. The 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 Conference (WTSC), which meets every four years, establishes the topics for study by the ITU-T Study Groups which, in their turn, produce Recommendations on these topics.

The approval of Recommendations by the Members of the ITU-T is covered by the procedure laid down in WTSC Resolution No. 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.

## INTELLECTUAL PROPERTY RIGHTS

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As of the date of approval of this Recommendation, the ITU had/had not received notice of intellectual property, protected by patents, which may be required to implement this Recommendation. However, implementors are cautioned that this may not represent the latest information and are therefore strongly urged to consult the TSB patent database.

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**PRINCIPLES AND RESPONSIBILITIES FOR THE MANAGEMENT,  
ASSIGNMENT AND RECLAMATION OF E-SERIES  
INTERNATIONAL NUMBERING RESOURCES**

*(Geneva, 1997)*

## **1 Introduction**

**1.1** This Recommendation will guide and assist the appropriate ITU-T Study Group in finding a balance between the following interrelated issues:

- the need for numbering resources both for geographic and non-geographic applications;
- the need for efficient and effective use of numbering resources recognizing their finite nature;
- the need for an agreed expansion plan for numbering resources;
- the need to ensure that adequate numbering resources are guaranteed for current and future requirements.

**1.2** E-Series international numbering resources are assigned by the ITU-TSB, following consultation with the appropriate ITU-T Study Groups and applicants concerned. The assignment of national numbers remain a national matter.

**1.3** The numbering principles included in this Recommendation serve as a framework on which to base numbering assignment decisions for international numbering resources.

**1.4** The development and maintenance of responsibilities and procedures for the management of international numbering resources are the shared responsibilities of the ITU-TSB and the technical/operational experts of the appropriate ITU-T Study Group.

## **2 Background**

**2.1** WTSC Resolution 20 (Geneva, 1996) recognizes the responsibility of the TSB Director and the relevant Administrations for the allocation of future country codes and network codes. The TSB Director and the relevant ITU-T Study Groups are to ensure that procedures governing the allocations of international numbering resources meet current and foreseeable operational considerations.

Careful study has led to the determination that:

**2.1.1** A set of numbering principles for the management and assignment of E-Series international numbering resources under the auspices of the appropriate ITU-T Study Group is required.

**2.1.2** Due to the introduction of new services, new applications for geographic and non-geographic numbering resources, and changes in national boundaries, management and assignment of international numbering resources for different applications are required.

## **3 Scope**

This Recommendation contains the principles used by the ITU-TSB and the appropriate ITU-T Study Group in the management, assignment and reclamation of E-Series international numbering resources (e.g. Recommendations E.164 and E.212). Criteria for the assignment of E-Series international numbering resources are specified in the appropriate ITU-T Recommendations, e.g. Recommendation E.169.

## 4 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; all 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.

- ITU-T Recommendation E.164 (1997), *The international public telecommunication numbering plan*.
- CCITT Recommendation E.212 (1988), *Identification plan for land mobile stations*.
- ITU-T Recommendation E.168 (1993), *Application of E.164 numbering plan for UPT*.
- ITU-T Recommendation E.169 (1996), *Application of Recommendation E.164 numbering plan for universal international freephone numbers for the international freephone service*.
- ITU-T Recommendation E.191 (1996), *B-ISDN numbering and addressing*.

## 5 Terms and definitions

This Recommendation defines the following terms.

### 5.1 applicant

*F: postulant*  
*S: solicitante*

The petitioner applying for the assignment of a resource derived from an international numbering plan.

### 5.2 administrator

*F: administrateur*  
*S: administrador*

The organization entrusted with the administration of a resource derived from an international numbering plan.

### 5.3 assignee

*F: titulaire*  
*S: asignatario*

The applicant to whom E-Series international numbering resources have been assigned.

### 5.4 assignment

*F: attribution*  
*S: asignación*

The process for providing an international numbering resource to an eligible applicant.

### 5.5 reclamation

*F: retrait*  
*S: recuperación*

The process for returning, for future potential re-assignment, an assigned international numbering resource.

### 5.6 international numbering resource

*F: ressource de numérotage international*  
*S: recurso de numeración internacional*

A numbering resource derived from an international number plan and assigned by the ITU-T, e.g. Recommendations E.164 and E.212.



## 5.7 telecommunication community

*F: communauté des télécommunications*

*S: comunidad de telecomunicaciones*

The aggregation of users, service providers, ROAs, regulatory organizations and Administrations.

## 6 Principles for the management, assignment and reclamation of E-Series international numbering resources

### 6.1 General

The purpose of the following principles is to establish the consistent and fair management and assignment of E-Series international numbering resources. All these principles should be utilized by the ITU-TSB, the appropriate ITU-T Study Groups, the resource administrator, the resource applicant and the resource assignee.

All principles listed below have equal importance.

### 6.2 Principles

#### 6.2.1 Principle 1: Adequate numbering resources must be available to enable the provision of public telecommunications services

The appropriate ITU-T Study Group has the responsibility to ensure that there is an adequate supply of international numbering resources available to meet the needs of the telecommunications community, the provisioning of services, and to enable the development of telecommunications.

Conservation, unto itself, is not a valid reason to deny valid applications for numbering resources.

#### 6.2.2 Principle 2: Numbering resources are assigned to facilitate the provisioning of public telecommunications services

International numbering resources exist for, and should be assigned to, serve the needs of the telecommunications community for the evolution of services, the introduction of geographic and non-geographic applications, and changes in the national boundaries.

#### 6.2.3 Principle 3: Numbering resources are to be efficiently utilized and managed

Numbering resources must be assigned and used in a manner that is effective for the telecommunications community and efficient in that finite resources are not unduly wasted. The appropriate ITU-T Study Group shall ensure that any Recommendation it makes in respect of numbering resource assignment is effective for the telecommunications community and efficiently utilizes finite resources to prevent unnecessary wastage. In addition, the appropriate ITU-T Study Group should also minimize the cost to, and impact on, the telecommunications community while facilitating suitable numbering capacity.

Numbering resources will not be assigned to the same service for which there is an existing international numbering resource already assigned from the same numbering plan.

Numbering resources shall be assigned in accordance with the extent of service provision for which those resources are required, and by the appropriate administrator.

If the service or network is provided:

- i) nationally;
- ii) within an integrated numbering plan; or
- iii) across multiple countries with diverse or integrated numbering plans,

then the application shall be addressed respectively to:

- i) the national numbering plan administrator;
- ii) the integrated numbering plan administrator;
- iii) the ITU-TSB (numbering plan administrator).

#### **6.2.4 Principle 4: Numbering resources are to be assigned with fairness and equity**

Numbering resources shall be assigned in a fair and impartial manner to any applicant who conforms to the conditions established by this and other relevant E-Series Recommendations.

The ITU-TSB in consultation with the appropriate ITU-T Study Group will be fair and equitable in the assignment of numbering resources and will not discriminate among or between applicants or global services. Assignments will be in accordance with the criteria and procedures as specified in the relevant Recommendations and other guidelines provided by the appropriate ITU-T Study Group.

#### **6.2.5 Principle 5: Assignment confers use of the resource but does not imply ownership by the assignee**

Numbering resources are to be administered for the overall good and use of the telecommunications community, and as such, are not to be considered "owned" by the assignee. Assignment of the numbering resource by the ITU-TSB confers use of the resources only for the specific application.

Additionally there may be circumstances when the ITU-T must modify the assigned numbering resource in the interest of the telecommunications community, e.g. need to expand the resource.

#### **6.2.6 Principle 6: Use of E-Series numbering resources**

E-Series numbering resources will only be utilized by the assignee for the specific application for which they have been assigned by the ITU-TSB.

Upon request for resources, the assignee is obliged to demonstrate to the administrator or appropriate ITU-T Study Group that numbering resources are or will be properly used, that is, the service(s) has been or will be established within the time stated in the application for the numbering resource, and the numbering resource is or will be used for the specific application quoted in the applicant's request.

Numbering resources may not be sold, licensed or traded. Nor may they be transferred, except in the case of a merger, acquisition, or joint venture. Any such transfer shall be notified to the administrator.

#### **6.2.7 Principle 7: Reclamation of assigned numbering resources**

The assigned resource will be subject to reclamation by the ITU-TSB, if:

- it is being used in a different way from that for which it was assigned;
- service(s) has not been established at the time stated in the applicant's request;
- the resources are being used by other than the assignee, e.g. resale or transfer with the assignee's knowledge; or
- the assigned numbering resource is no longer required or in use by the assignee.

## **7 Responsibilities**

The following responsibilities are general in nature. Specific responsibilities are further complemented in relevant Recommendations and documents (e.g. WTSC Resolution 20, Geneva, 1996).

### **7.1 ITU-TSB**

Assignment and reclamation of numbering resources are the responsibility of the ITU-TSB Director in consultation with the relevant ITU-T Study Group, the relevant applicant/assignee, and if required, the relevant Administration(s).

## **7.2 Appropriate ITU-T Study Group**

The Study Group shall be responsible for managing the resource. This includes technical and operational advice to the Director of the ITU-TSB relative to the use, availability and reclamation of that resource. The appropriate ITU-T Study Group should also ensure that number plan development and planning activities facilitate operational needs.

## **7.3 Administrator**

It is the responsibility of the administrator to perform all administration functions in a timely manner, including the validation and processing of applications, numbering resource reclamation procedures when appropriate and periodically publishing an up-to-date list of assignments and recoveries. The administrator of the resource must also be prepared to accept and handle proprietary information in a confidential manner.

## **7.4 Applicant**

The applicant must comply with the assignment criteria. This includes adherence to all ITU-T Recommendations relative to each service and the specific numbering resource being applied for. The resource administrator shall be notified of any changes in the resource assignment immediately as they occur. The applicant must also ensure they are entitled per the appropriate domestic regulations to operate in the area(s) they intend to provide service.

## **7.5 Assignee**

The assignee is responsible for the effective and efficient management and use of that part of the resource which is under their purview. They must also ensure that the numbering resource they are assigned is only used for the purpose stated. International numbering resource must be returned if there is no longer a recognized need, or the resource is being used in a manner which differs from the stated purpose.

## **8 Reconsideration process**

**8.1** If a request for a numbering resource assignment is subject to denial or numbering resource is subject to reclamation from an assignee, then a process shall be available for reconsideration of the TSB decision.

**8.2** The applicant shall be afforded the rationale for the request denial, and shall be given the opportunity to amend and re-submit an application to address the denial or reclamation rationale.

**8.3** If the applicant chooses to initiate the reconsideration process, the steps are:

- direct communication between the TSB and the applicant, if unresolved in a reasonable period of time;
- consultation between the TSB and the appropriate ITU-T Study Group.

## ITU-T RECOMMENDATIONS SERIES

- Series A Organization of the work of the ITU-T
- Series B Means of expression: definitions, symbols, classification
- Series C General telecommunication statistics
- Series D General tariff principles
- Series E Overall network operation, telephone service, service operation and human factors**
- Series F Non-telephone telecommunication services
- Series G Transmission systems and media, digital systems and networks
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- Series I Integrated services digital network
- Series J Transmission of television, sound programme and other multimedia signals
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- Series L Construction, installation and protection of cables and other elements of outside plant
- Series M Maintenance: international transmission systems, telephone circuits, telegraphy, facsimile and leased circuits
- Series N Maintenance: international sound programme and television transmission circuits
- Series O Specifications of measuring equipment
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- Series R Telegraph transmission
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