INTERNATIONAL TELECOMMUNICATION UNION

ITU-T E.169

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OF ITU

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

International operation – Numbering plan of the international telephone service

Application of Recommendation E.164 numbering plan for universal international numbers for international telecommunications services using country codes for global services

ITU-T Recommendation E.169

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

ITU-T Recommendation E.169

Application of Recommendation E.164 numbering plan for universal international numbers for international telecommunications services using country codes for global services

Summary

This Recommendation provides general principles for the application of The International Public Telecommunication Numbering Plan, ITU-T Rec. E.164, in the provisioning of international telecommunications services using Country Codes for Global Services. This Recommendation also provides information on the general organisation and description of the individual Recommendations in the E.169.x series.

Source

This new ITU-T Recommendation E.169 was prepared by ITU-T Study Group 2 (2001-2004) and approved under the WTSA Resolution 1 procedure on 16 May 2002. Former ITU-T Rec. E.169 has been renumbered as E.169.1.

FOREWORD

The International Telecommunication Union (ITU) is the United Nations specialized agency in the field of telecommunications. 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.

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, 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.

CONTENTS

ITU-T Recommendation E.169[1]

Application of Recommendation E.164 numbering plan for universal international numbers for international telecommunications services using country codes for global services

1 Scope

This Recommendation provides general principles for the application of The International Public Telecommunication Numbering Plan, ITU-T Rec. E.164, in the provisioning of international telecommunications services using Country Codes for Global Services[2]. This Recommendation also provides information on the general organisation and description of the individual Recommendations in the E.169.x series.

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.

- ITU-T Recommendation E.164 (1997), *The international public telecommunication numbering plan*.
- ITU-T Recommendation E.169.1 (2001), *Application of Recommendation E.164 numbering plan for universal international freephone numbers for international freephone service*.
- ITU-T Recommendation E.169.2 (2000), *Application of Recommendation E.164 numbering plan for universal international premium rate numbers for international premium rate service*.
- ITU-T Recommendation E.169.3 (2000), *Application of Recommendation E.164 numbering plan for universal international shared cost numbers for international shared cost service*.
- ITU-T Recommendation E.190 (1997), *Principles and responsibilities for the management, assignment and reclamation of E-series international numbering resources*.
- ITU-T Recommendation E.195 (2000), *ITU-T international numbering resource administration*.

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1 This is a new Recommendation. Former ITU-T Rec. E.169. Application of Recommendation E.164 numbering plan for universal international freephone numbers for international freephone service has been renumbered as E.169.1.

2 The UPT service and its application within E.164 are described in ITU-T Recs E.168 and E.168.1 (Assignment Procedures). UPT, while considered a global service, because of its ubiquitous nature across networks is considered to be different than the services covered in the E.169.x series of Recommendations.

3 Definitions

This Recommendation defines the following terms.

3.1 applicant: The service provider, an ROA, as defined in the Annex of ITU Constitution (Geneva, 1992) that submits an application for a UIN on behalf of the global service customer in accordance with this Recommendation.

3.2 Charging/accounting Indicator (CI): The digit belonging to the UIPRN and mnemonically associated with the charging range. Use of a CI allows the service user to be informed about the rate or value applied before dialling of the UIPRN. Service providers may use the CI for accounting purposes.

3.3 Universal International Number (UIN): UIN as used in this Recommendation refers to any of the universal international numbers in the E.169.x series of Recommendations (e.g. UIFN).

3.4 Universal International Premium Rate Number (UIPRN): A unique number which is assigned to the IPRS customer on a global basis for the provision of the IPRS.

3.5 Universal International Shared Cost Number: The Universal International Shared Cost Number (UISCN) is a unique number assigned to an Applicant for its ISCS customer that is the same throughout the world. A UISCN is composed of a 3-digit CC (808) for a global service application and an 8-digit GSN.

4 Abbreviations

This Recommendation uses the following abbreviations:

CC	Country Code
CI	Charging/Accounting Indicator
GSN	Global Subscriber Number
IFS	International Freephone Service
IPRS	International Premium Rate Service
ISCS	International Shared Cost Service
NAG	Numbering Administration Group
ROA	Recognised Operating Agency
SN	Subscriber Number
TSB	Telecommunication Standardization Bureau
UIFN	Universal International Freephone Number
UIN	Universal International Number
UIPRN	Universal International Premium Rate Number
UISCN	Universal International Shared Cost Number
UPT	Universal Personal Telecommunication

5 General principles and format[3]

5.1 General principles

The following principles were used in the development of the format and assignment procedures detailed in the E.169.x series of Recommendations, and should be considered with the use of a Universal International Number (UIN).

5.1.1 The UIN should be portable, giving the international service customers the ability to retain their assigned UINs and change their service providers. The GSN portion of the UIN does not contain any identification of country (origin or destination) or service provider.

5.1.2 The structure of UIN should offer the international service customers freedom in choosing the digits to form a particular UIN that suits their purposes.

5.1.3 The format of the UIN should facilitate proper and efficient routing of individual calls by service providers.

5.1.4 Fair and unbiased treatment of all UIN related activities should be ensured among nations, the international service providers and the international service customers.

5.1.5 All assigned UINs are to be used in conformance with the applicable Recommendations.

5.1.6 Applications for UINs will be considered when the Registrar has received a valid, and complete UIN Request Form from an eligible Applicant.

5.1.7 UINs will be assigned to international service customers who will use the international service between two or more countries, i.e. international service customers offering a service that is only accessed from within a single national, or integrated numbering plan, will not be considered eligible.

5.1.8 UINs 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 Registrar.

5.1.9 The assignment of a UIN by the Registrar does not create an ownership interest, right or claim to the UIN on the part of the international service customer or international service provider. Its use shall be subject to the terms set forth in the applicable Recommendation.

5.1.10 The UIN shall be unique to an international service customer.

5.1.11 Any violation of these principles by the international service customer or international service provider of a UIN will result in the Registrar reclaiming the assigned number.

5.2 UIN format

The UIN format is composed of a 3-digit Country Code for a global service application, followed by a GSN. The GSN is a fixed number of digits within each global service application. The UIN may also contain a special use digit for some services (e.g. the charge identifier for the IPRS).

A caller must dial an international prefix prior to the UIN.

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3 Reference should also be made to ITU-T Rec. E.190.

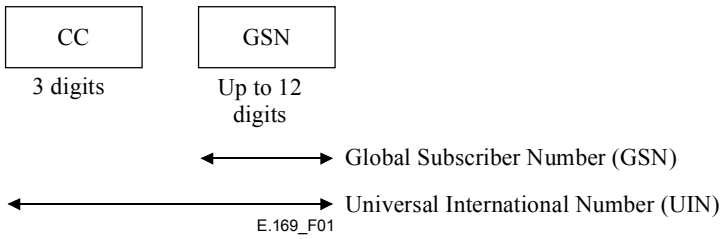

Figure 1/E.169 – UIN format

6 Number assignment principles

The number assignment principles applicable to each international global service are contained in the applicable Recommendation.

7 Applicant procedures

The Applicant has the responsibility for being the sole interface to a customer requesting a numbering resource and for processing requests from such customers. The Applicant procedures applicable to each international global service are contained in the appropriate global service numbering application Recommendation.

8 Registrar procedures

The function of the Registrar will be performed under the auspices of the ITU. The Registrar has the responsibility for the processing, and associated administrative functions, of registration requests from Applicants. The processing of registration requests will be performed in close cooperation and consultation with national Administrations, as required by national Administrations. This Recommendation does not include the legal responsibilities of the Registrar. The Registrar procedures applicable to each international global service are contained in the appropriate global service numbering application Recommendation.

9 Registrar start-up and duplicate request procedures

The Registrar start-up procedures and duplicate request procedures which are used in initiating the various international global services are contained in the appropriate global service numbering application Recommendation.

NOTE – The procedures, with the exception of the duplicate request procedures, while not expected to be required further, are being retained for historical purposes.

10 Preparation of universal international number Forms

Instructions for the preparation of the various forms used with each international global service for the purpose of requesting numbering resources and the maintenance of the Registrar function are contained in the appropriate global service numbering application Recommendation.

11 Description of Recommendations contained in the E.169.x series

A brief description of each of the Recommendations in the E.169.x series is contained in Appendix I.

12 Recommendation history

E.169v1.0	May 1999	SG 2 Meeting	Geneva
E.169v2.0	June 2001	Q1/2 Rapporteur Meeting	Oslo
E.169v3.0	September 2001	SG 2 Meeting	Geneva

Appendix I

Description of E.169.x series Recommendations

I.1 ITU-T Rec. E.169.1 – *Application of Recommendation E.164 numbering plan for universal international freephone numbers for international freephone service*

This Recommendation details the application of the E.164 Numbering Plan for Universal International Freephone Numbers (UIFN) in the provisioning of International Freephone Service (IFS) as defined in ITU-T Rec. E.152. The assignment of numbering resources to applicants under E.169.1 is the function/responsibility of the centralised ITU Numbering Administration Group (ITU-NAG) within the Telecommunication Standardization Bureau of ITU.

UIFN format

A UIFN is composed of a 3-digit CC for a global service application, 800, and an 8-digit Global Subscriber Number (GSN), resulting in an 11-digit fixed format (see Figure I.1):

As an example, an IFS customer's UIFN could be 800 yyyyyyyy, where yyyyyyyy is the IFS customer's GSN.

An IFS caller must dial an international prefix prior to the UIFN.

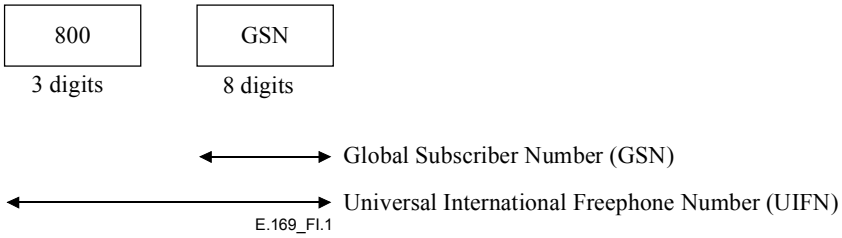

Figure I.1/E.169 – UIFN format

I.2 ITU-T Rec. E.169.2 – *Application of Recommendation E.164 numbering plan for universal international premium rate numbers for the international premium rate service*

This Recommendation details the application of the E.164 Numbering Plan for Universal International Premium Rate Numbers (UIPRN), in the provisioning of the International Premium Rate Service as defined in ITU-T Rec. E.155.

UIPRN format

A UIPRN is composed of a 3-digit CC for a global service application (979), a single digit Charging/Accounting Indicator (CI), and an 8-digit Subscriber Number (SN), resulting in a 12-digit fixed format (CC+CI+SN) (see Figure I.2):

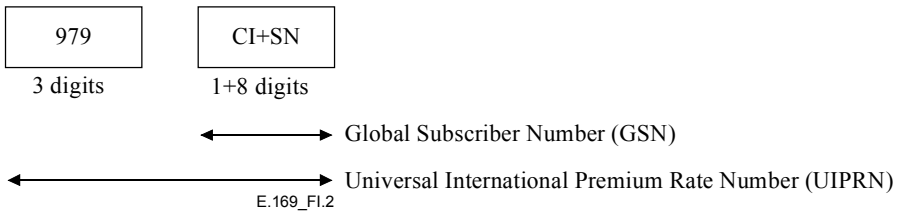

Figure I.2/E.169 – UIPRN format

As an example, an IPRS customer's UIPRN could be 979 x yyyyyyyy, where x is the Charging/Accounting Indicator, and yyyyyyyy is the IPRS customer's SN.

All calls to a UIPRN must be preceded by an international prefix.

Charging/Accounting Indicator

The UIPRN will include a single-digit CI following the global service code (979). The purpose of the indicator is to allow IPRS providers the ability to separate charging rates for premium rate calls, based on subscriber charging preferences. For this purpose four bands were created and have been generally characterised as "High", "Medium", "Low", and "Special".

I.3 ITU-T Rec. E.169.3 – *Application of Recommendation E.164 numbering plan for universal international shared cost numbers for international shared cost service*

This Recommendation details the application of the E.164 numbering plan for Universal International Shared Cost Numbers (UISCN), in the provisioning of the International Shared Cost Service (ISCS) as defined in ITU-T Rec. E.154.

UISCN format

A UISCN is composed of a 3-digit CC (808) for a global service application and an 8-digit Global Subscriber Number (GSN), resulting in an 11-digit fixed format (see Figure I.3):

Figure I.3/E.169 – UISCN format

As an example, an ISCS customer's UISCN could be 808 yyyyyyyy, where yyyyyyyy is the ISCS customer's GSN.

All calls to a UISCN must be preceded by an international prefix.

SERIES OF ITU-T RECOMMENDATIONS

Series A	Organization of the work of 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
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Series I	Integrated services digital network
Series J	Cable networks and 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	TMN and network maintenance: international transmission systems, telephone circuits, telegraphy, facsimile and leased circuits
Series N	Maintenance: international sound programme and television transmission circuits
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