

TELECOMMUNICATIONS NUMBERING ADVISORY COMMITTEE

Recent Development of Numbering Arrangements Implemented by the International Telecommunication Union (ITU)

Introduction

This paper reports some recent developments of numbering arrangements implemented by the ITU under the following Recommendations

- E.195 - ITU-T International Numbering Resource Administration;
- E.169.2- Application of Recommendation E.164 Numbering Plan for Universal International Premium Rate Numbers (UIPRN) for the international premium rate service; and
- E.169.3 - Application of Recommendation E.164 Numbering Plan for Universal International Shared Cost Numbers (UISCN) for the international shared cost service.

E.195 - ITU-T International Numbering Resource Administration

2. E.195 Recommendation proposes the formation and functions and responsibilities of the centralized ITU Numbering Administration Group (ITU-NAG) within ITU-TSB. It provides recommended procedures to ensure that all requests for resources are handled in an impartial, uniform, consistent, and effective manner. The two primary responsibilities of ITU-NAG are:

- resource administration - support ITU's efforts to accommodate current and future numbering needs, and to provide advice relative to numbering issues for the resources administered by ITU-NAG (e.g. potential resource exhaust);
- resource registration - assign and administer resources in an impartial, uniform, consistent, and effective manner consistent with ITU-T-developed Recommendations.

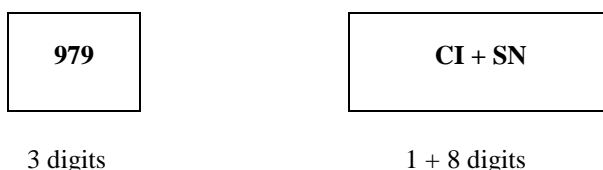
3. ITU-NAG will administer and register all resources under the purview of ITU-T. A list of such resources, as of the date of publication for this Recommendation, is contained in Annex 1. In addition to the resources listed in Annex 1, ITU-NAG will administer and register any additional resources that are subsequently either developed by or come under the purview of ITU-T. In the performance of this function, ITU-NAG will ensure that there is impartial, uniform, consistent, and effective reservation, assignment, reclamation, and administration of resources.

E.169.2- Application of Recommendation E.164 Numbering Plan for Universal International Premium Rate Numbers (UIPRN) for international premium rate service

4. E.169.2 Recommendation details the application of Recommendation E.164, Numbering Plan for Universal International Premium Rate Numbers (UIPRN), in the provisioning of the International Premium Rate Service as defined in Recommendation E.155.

UIPRN Format

5. 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) :



Universal International Premium Rate Number (UIPRN)

As an example, an IPRS customer's UIPRN could be "979 -1-12345678", where "1" is the Charging/Accounting Indicator, and "12345678" is the IPRS customer's SN. All calls to a UIPRN must be preceded by an international prefix.

Charging Indicator

6. 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 are created and have been generally characterized as "High", "Medium", "Low", and "Special". The digits within the indicator are allocated as follows:

Digit	Application
1	Charging Band 1
2	Reserved for future use
3	Charging Band 2
4	Reserved for future use
5	Charging Band 3
6	Reserved for future use
7	Reserved for future use
8	Reserved for future use
9	Special Charging Band
0	Reserved for future use

7. The specific Charging/Accounting Indicator used with each SN within a

UIPRN is determined between the service providers involved and may change on a country-by-country basis. It is recommended that the same SN with different CIs not be implemented in the same country in order to minimize customer confusion and operational complexities.

Assignment Principles

8. The assignment principles of UIPRNs as stated in E.169.2 are shown below:

- 8.1 All assigned UIPRNs must be used in conformance with Recommendation E.155.
- 8.2 Applications for UIPRNs will only be considered when a valid and complete UIPRS Request Form has been received from an eligible Applicant by the Registrar.
- 8.3 UIPRNs will only be assigned to IPRS customers who will use the IPRS service between two or more countries, i.e. IPRS customers offering a service that is only accessed from within a single national, or integrated numbering plan, will not be considered eligible.
- 8.4 UIPRNs can only be assigned to IPRS customers where implementation will be within 180 days of the date of reservation.
- 8.5 The assignment of a UIPRN by the Registrar does not create an ownership interest, right or claim to the UIPRN on the part of the IPRS customer or IPRS service provider. Its use shall be subject to the terms set forth herein.
- 8.6 UIPRNs 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 within 30 days.
- 8.7 UIPRNs are classified as reserved until the Applicant notifies the Registrar that the UIPRN is implemented (180 day maximum).
- 8.8 The UIPRN shall be unique to an IPRS customer.
- 8.9 Any violation of these principles by the IPRS customer or IPRS service provider of a UIPRN will result in the Registrar reclaiming the assigned number.
- 8.10 All ten Charging/Accounting Indicators associated with the charging bands are considered to be a part of a unique set of UIPRNs assigned to an applicant.
- 8.11 A Subscriber Number assigned to an IPRS customer may be associated with any currently allocated CI, i.e. the IPRS customer may offer an IPRS using the same SN with a different CI.

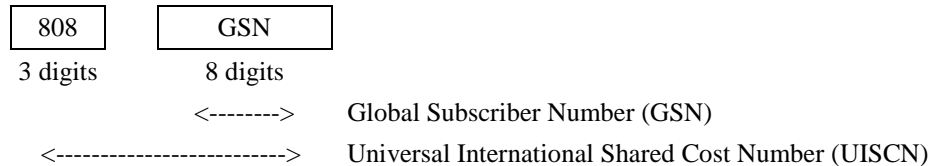
9. The application procedures for UIPRN are given in Annex A of E.169.2.

E.169.3 - Application of Recommendation E.164, Numbering Plan for Universal International Shared Cost Numbers (UISCN) for the international shared cost service

10. E.169.3 details the application of Recommendation E.164 Numbering Plan for Universal International Shared Cost Numbers (UISCN) in the provisioning of the International Shared Cost Service (ISCS) as defined in Recommendation E.154.

UISCN Format

11. 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:



As an example, an ISCS customer's UISCN could be "808-12345678", where "12345678" is the ISCS customer's GSN. All calls to a UISCN must be preceded by an international prefix.

Assignment Principles

12. The assignment principles of UISCN as stated in E.169.3 are shown below:

- 12.1 All assigned UISCNs must be used in conformance with Recommendation E.154.
- 12.2 Applications for UISCNs will only be considered when a valid and, and complete UISCN Request Form has been received from an eligible Applicant by the Registrar.
- 12.3 UISCNs will be assigned to ISCS customers who will use the ISCS service between two or more countries, i.e. ISCS customers offering a service that is only accessed from within a single national, or integrated numbering plan, will not be considered eligible.
- 12.4 UISCNs can only be assigned to ISCS customers where implementation will be within 180 days of the date of reservation.
- 12.5 The assignment of a UISCN by the Registrar does not create an ownership interest, right or claim to the UISCN on the part of the ISCS customer or ISCS service provider. Its use shall be subject to the terms set forth herein.
- 12.6 UISCNs 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 within 30 days.
- 12.7 UISCNs are classified as reserved until the Applicant notifies the Registrar that the UISCN is implemented (180 day maximum).
- 12.8 The UISCN shall be unique to an ISCS customer.

12.9 Any violation of these principles by the ISCS customer or ISCS service provider of a UISCN will result in the Registrar reclaiming the assigned number.

13. The application procedures for UISCN are given in Annex A of E.169.3.

Impact of UIRPN and UISCF Services to Hong Kong

14. For incoming calls to UIRPN and UISCF in Hong Kong, the translation of the leading prefixes “979” and “808” will be handled by international gateway operators. As for outgoing calls to these services, Hong Kong callers will dial international prefix (e.g. 001) followed by “979” or “808” codes and then the unique subscribers numbers. The TA considers that the number blocks “979” and “808” could be used locally and could co-exist with the designated UIRPN and UISCN services.

Future Developments

15. OFTA will keep track of the international development and progress of the above numbering issues and if necessary report them to the Telecommunications Numbering Advisory Committee in future.

Office of the Telecommunications Authority
4 January 2001

ANNEX 1

List of ITU-T Global Numbering Resources Administered by ITU-NAG

Following is a list of ITU-T Global Numbering Resources administered or registered by ITU-NAG as of the publication of Recommendation E.155. Additional resources will be administered or registered by ITU-NAG as they are developed by ITU-T.

- E.164 Country Codes (including shared Country Codes and associated Identification Codes).
- Registration and Administration of E.169.1 Universal International Freephone Numbers (UIFNs).
- E.164 Dialling Procedures (International prefix, national (trunk) prefix and national significant number).
- E.118 Issuer Identifier Numbers (IINs) for the International Telecommunication Charge Card.
- International Network Designator (IND)
- ATM End System Addresses (AESA).
- E.212 Mobile Country Codes.
- Q.708 Signalling Area/Network Codes (SANCs) and International Signalling point Codes (ISPCs).
- Supplement 2 to Recommendation E.180 - Various Tones used in National Networks.
- F.69 Telex Destination Codes and Telex Network Identification Codes.
- F.1 Five-letter Code Groups used in the International Public Telegram Service.
- F.32 Telegram Destination Indicators.
- X.121 Data Country Codes (DCCs) and Data Network Identification Codes (DNICs).
- X.125 Identification Codes for public frame relay data networks and ATM networks numbered under the E.164 numbering plan.
- F.400 and X.400 Administration Management Domains.
- M.1400 International Carrier Codes ITU ATM End System Addresses (AESA) (Recommendation E.191 refers).
- T.35 Allocation of ITU-T Defined Codes for Non-Standard Facilities.
- Universal Personal Telecommunication Numbers (Recommendation E.168 refers).
- Universal International Premium Rate Numbers (Recommendation E.169.2 refers).
- Universal International Shared Cost Numbers (Recommendation E.169.3 refers).