ITU-T

E.168.1

TELECOMMUNICATION STANDARDIZATION SECTOR OF ITU (02/2005)

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

International operation – Numbering plan of the international telephone service

Assignment procedures for universal personal telecommunications (UPT) numbers in the provisioning of the international UPT service

ITU-T Recommendation E.168.1



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ITU-T Recommendation E.168.1

Assignment procedures for universal personal telecommunications (UPT) numbers in the provisioning of the international UPT service

Summary

This Recommendation details the assignment procedures for Universal Personal Telecommunications (UPT) numbers, in the provisioning of the international UPT service as defined in ITU-T Rec. E.168. The assignment procedures in this Recommendation are applicable only to UPT Scenario 3 as defined in ITU-T Rec. E.168. The assignment of numbering resources to applicants under E.168.1 is the function/responsibility of the centralized ITU Numbering Administration Group (ITU-NAG) within the ITU-TSB.

Source

ITU-T Recommendation E.168.1 was approved on 24 February 2005 by ITU-T Study Group 2 (2005-2008) under the WTSA Resolution 1 procedure.

History

1.0	E.168.1	2002-05-16
2.0	E.168.1	2005-02-24

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.

Compliance with this Recommendation is voluntary. However, the Recommendation may contain certain mandatory provisions (to ensure e.g. interoperability or applicability) and compliance with the Recommendation is achieved when all of these mandatory provisions are met. The words "shall" or some other obligatory language such as "must" and the negative equivalents are used to express requirements. The use of such words does not suggest that compliance with the Recommendation is required of any party.

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.

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ITU-T Recommendation E.168.1

Assignment procedures for universal personal telecommunications (UPT) numbers in the provisioning of the international UPT service

1 Scope

This Recommendation details the assignment procedures for Universal Personal Telecommunications (UPT) numbers, in the provisioning of the international UPT service as defined in ITU-T Rec. E.168. The assignment procedures in this Recommendation are applicable only to UPT Scenario 3 as defined in ITU-T Rec. E.168. The assignment of numbering resources to applicants under E.168.1 is the function/responsibility of the centralized ITU Numbering Administration Group (ITU-NAG) within the ITU-TSB.

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. The reference to a document within this Recommendation does not give it, as a stand-alone document, the status of a Recommendation.

- ITU-T Recommendation E.164 (2005), *The international public telecommunication numbering plan*.
- ITU-T Recommendation E.168 (2002), Application of E.164 numbering plan for UPT.
- 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
- ITU-T Recommendation F.850 (1993), *Principles of Universal Personal Telecommunication (UPT)*.

3 Definitions

This Recommendation defines the following terms:

- **3.1 applicant**: The service provider, an ROA, as defined in the Annex of the ITU Constitution (Geneva, 1992) that submits an application for a UPT number(s) in accordance with this Recommendation and ITU-T Rec. E.168.
- **3.2 UPTN registrar**: The administrator responsible for processing registration requests and assigning the UPTN resource. The centralized ITU Numbering Administration Group (ITU-NAG) within the ITU-TSB.
- **3.3 universal personal telecommunication (UPT)**: Universal personal telecommunication enables access to telecommunication services while allowing personal mobility. It enables each UPT user to participate in a user-defined set of subscribed services and to initiate and receive calls on the basis of a personal, network-transparent UPT number across multiple networks on any fixed terminal and or mobile terminal, irrespective of geographical location, limited only by network capabilities and restrictions imposed by the network operator.

- 3.4 **UPT number (UPTN)**: A number that uniquely identifies the UPT user; it is also used by a calling party to reach the UPT user. A UPT user may have more than one UPT series (for example, a business UPT number for business calls and a private UPT number for private calls).
- UPT number (UPTN) series: A contiguous series of UPT numbers. The series can be uniquely and unambiguously identified by those leading digits that are common to all numbers in the series.
- 3.6 **UPT customer**: A person or legal entity seeking UPT service from a service provider that needs a UPTN

4 **Abbreviations**

This Recommendation uses the following abbreviations:

CC An E.164 country code

CC (UPT) E.164 country code "878" which has been assigned as a UPT indicator

GSN Global Subscriber Number

ITU-NAG ITU Numbering Administration Group

SP Service Provider

Universal Personal Telecommunication UPT

UPTN Universal Personal Telecommunication Number

UPTS UPT Service

5 **UPTN** principles and format

5.1 **UPTN** Principles¹

The following principles were used in the development of the UPTN format and assignment procedures, and should be considered with the use of UPTNs.

- To ensure full UPT user/subscriber flexibility, the UPTN should be portable, giving the UPT users/subscribers the ability to retain their assigned UPTNs and change their service providers. The GSN portion of the UPTN does not contain any identification of country (origin or destination) or service provider.
- The format of the UPTN should facilitate proper and efficient routing of individual calls 5.1.2 by service providers.
- Fair and unbiased treatment of all UPT-related activities should be ensured among 5.1.3 nations, the UPT service providers and the UPT service users/subscribers.
- The assignment of a UPTN by the Registrar does not create an ownership interest, right or claim to the UPTN on the part of the UPT service provider. Its use shall be subject to the terms set forth herein.
- UPTNs 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.
- Any violation of these principles by the UPT service users/subscribers or UPT service provider of a UPTN will result in the Registrar reclaiming the assigned number.

¹ Reference should also be made to ITU-T Recs E.190 and F.850.

5.1.7 Each UPTN shall only be assigned to one UPT subscriber/UPT user.

5.2 UPTN format

The number structure of the UPT scenario 3 scheme shown in Figure 1 is based on the international public telecommunication number for global services defined in ITU-T Rec. E.164. The presence of country code "878", assigned for the UPT global service, identifies a UPT call.

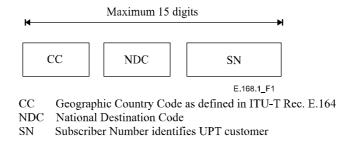


Figure 1/E.168.1 – UPT scenario 3 number structure

In scenario 3 the country code CC (UPT) is "878." The GSN is a flat number (i.e., the GSN does not include either identification of country or service provider).

NOTE – The UPT series "878 800..." are reserved for UPTAC use and are not eligible for assignment.

In scenario 3 it is always necessary to dial the full international public telecommunication number format.

6 Criteria for assignment of UPT numbers

- **6.1** All assigned UPTNs are to be used in conformance with ITU-T Rec. F.850 and this Recommendation.
- **6.2 Applications for UPTNs** will be considered when the Registrar has received a valid and complete UPTN Request Form from an eligible Applicant.
- **6.3 UPTNs will only be assigned** to UPT service providers who will use the UPT service between two or more countries: i.e., UPT service providers offering a service that is only accessed from within a single national, or integrated numbering plan, will not be considered eligible.
- **6.4 UPTNs will only be assigned** to UPT service providers where implementation will be within 12 months of the date of assignment.

7 Applicant procedures

The procedures which the Applicant is to follow are contained in Annex A.

7.1 Interim applicant procedures

7.1.1 The ITU-TSB has allocated the UPTN series 878 "10" series to the first qualified applicant. During the interim process, the assignee will be responsible for the administration and assignment of numbering resources from the series 878 "10". The format of the interim UPTN is shown in Figure 2.

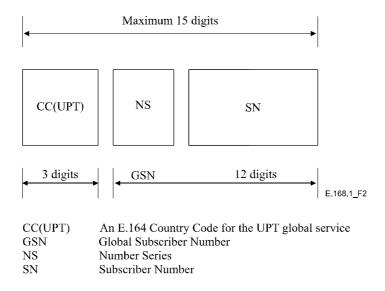


Figure 2/E.168.1 – Interim UPT number structure

For an interim period the following procedures will be used:

- **7.1.2** Any other UPT service provider submitting a request for UPT global numbers to the ITU-TSB will be forwarded to the appropriate Study Group for evaluation.
- **7.1.3** At that point the appropriate Study Group will evaluate the request and advise the TSB whether to assign another series to the applicant. If the applicant qualifies and is assigned a number series, the assignee will be responsible for administration and assignment of their assigned number series.
- **7.1.4** This interim process will remain in effect until the TSB, in consultation with the appropriate Study Group, has determined the need to institute the assignment guidelines detailed in this Recommendation.
- **7.1.5** All assignees will need to support service provider portability when another UPT service provider is assigned numbering resources from the 878 Country Code. However, the implementation of service provider portability will not be required until a valid request for portability is made by the competitive UPT service provider.

8 Registrar procedures

The interim procedures will remain in effect until the appropriate Study Group determines that UPTNs can be assigned on an individual basis. Until that time the interim procedures, as stated in 7.1.2 thru 7.1.5, will apply for any application for UPTNs.

The procedures which the Registrar are to follow only after the interim procedures are no longer in effect are contained in Annex B.

9 Preparation of Universal Personal Telecommunications Number Request Form

The procedure for preparation of the Universal Personal Telecommunications Number Request Form is included in Annex C

10 Preparation of Universal Personal Telecommunications Number Status Notification Form

The procedure for preparation of the Universal Personal Telecommunications Number Status Notification Form is included in Annex D.

Annex A

Applicant procedures

Up to the point of assignment, the Applicant has responsibility to:

- a) process all applications received on behalf of their UPT customers and is the sole interface with the UPTS customer;
- b) submit valid requests for a UPTN(s) in accordance with this Recommendation, using the particular UPTN format as described in clause 5. Invalid requests will be returned by the Registrar;
- c) send a UPTN request form, Part A, on behalf of the UPT customer, by facsimile to the Registrar. Submit only one form per number request, but allow a UPT customer to list acceptable alternative numbers. However, the UPT customer may have no preference for a specific number; in this case any number may be assigned from the available unassigned numbers. In order to indicate to the Registrar that there is no preference for a specific number, the Applicant is to place an asterisk "*" instead of number on the Request Form. The UPTN Request Form should be accompanied by evidence of payment of the registration application fee for the reservation and assignment of the UPTN by the Registrar. The ITU will notify Administrations of the amount of the registration application fee in the current Operational Bulletin of the ITU.

A registration application fee shall be paid by each Applicant based on the number of projected applications expected. The Registrar debits each Applicant's account for each UPTN Request Form received and requests additional funds for the account when the balance approaches depletion. The advance payment can be made:

- by bank transfer to ITU Account [], UBS SA, Geneva (Switzerland);
- via a major credit card;
- d) ensure that all requested UPTNs are numeric; alpha characters will NOT be accepted;
- e) specify up to ten UPTNs, which are acceptable to their UPT customer in order of priority, to limit interaction with the Registrar if their early choices are unavailable;
- f) consult with the UPT customer for additional choices if the UPTNs are either assigned, are in a six-month ageing period;
- g) accept UPTN Request Form, Part B, as the UPTN assignment confirmation from the Registrar, and notify the UPT customer;

Following the assignment of a UPTN or UPTN series, the Applicant has responsibility to:

- h) ensure that the UPTN is implemented within 12 months and notify the Registrar via the UPTN Status Notification Form, Part A;
- i) upon advice from the Registrar of non-conforming use with this Recommendation, either bring the UPTN into conformance within 90 days or explain why the current use is conforming. If conformance is not achieved by 90 days, the UPTN will be reclaimed by the Registrar. The UPTN will immediately be disconnected and enter the ageing period. The UPT service provider(s) will withdraw the UPT customer's service;
- j) notify the Registrar of changes in information associated with UPTNs, e.g., change of name, address, using the UPTN Request Form, Part A;
- k) notify the Registrar via the UPTN Request Form, Part A, of a disconnection of a UPTN.

Annex B

Registrar procedures

The function of the Registrar will be performed under the auspices of 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 will:

- a) assign all UPTNs in a fair and unbiased manner;
- b) validate the request for a UPTN in accordance with this Recommendation, and with the particular UPTN format as described in clause 5. The Registrar will return the request to the Applicant if the application is not valid;
- c) administer a single pool of UPTNs in a single database. The database requirements include:
 - an entry for each UPTN;
 - the UPTS customer name;
 - the Applicant;
 - the status of the UPTN (available, reserved, ageing with maturity date);
 - historical information;
 - allowance for administering change information;
 - allowance an online view only of capability of number status to Applicants;
 - provision of the information necessary to conduct a security investigation, from the UPTN records contained in the registrar's database, to Administrations (details to be determined by each affected Administration and the ITU-TSB). This information will be substantiated as being security-based, by the agency authorized by the Administration to request the information, and will be provided by the registrar in a timely and appropriate manner, e.g., as soon as possible, but not later than two days from receipt of the request by the TSB by facsimile or electronic means;
- d) receive all application requests by the Applicant on behalf of the UPTS customer by facsimile with a UPTN Request Form, Part A, including the payment of the registration application fee;
- e) register all applications on a "first come, first served" basis with details of the time and date using the local time stamp of the Registrar's facsimile;
- f) accept no verbal requests or inquiries for available UPTNs;
- g) respond to the Applicant, within two working days of receipt of request, via facsimile, with a UPTN Request Form, Part B (see Annex C), with an assignment and update the UPTN database with the appropriate notation;
- h) accept confirmation of service implementation via the UPTN Status Notification Form, Part A (see Annex D), from the Applicant. An assignment should be withdrawn if the Applicant has not placed at least one UPTN into service within the period as established in accordance with 6.4. However, there may be extenuating circumstances (e.g., the vendor missed installation date, the distant end was not ready, etc.) in which case the Registrar should be contacted to establish a new in-service date or other resolution;
- i) update the UPTN database accordingly;
- j) provide information to Applicants on the application process as detailed in these guidelines;

- k) upon recognizing a non-conforming use of the UPTN based on the guidelines in this ITU-T Recommendation and/or ITU-T Rec. E.168, will inform the Applicant of the alleged misuse. The Applicant will be afforded 90 days to either bring the UPTN into conformance or explain why the current use is conforming. If conformance is not achieved by 90 days, the Registrar will reclaim the UPTN. The UPTN will immediately enter the ageing period. The Registrar will also immediately reclaim a UPTN upon the request of all the Administrations of the countries in which the service is provided when the request is the result of a security investigation;
- l) accept notice of disconnection from the Applicant via the UPTN Request Form; Part A (see Annex C). The UPTN will be placed in the ageing period on the date the Registrar receives the notification of disconnect;
- m) when an existing UPTN is completely disconnected, the UPTN can be assigned to another UPTS customer normally after a six-month ageing period;
- n) the Registrar will send confirmation of the disconnection of the UPTN to the Applicant, via the UPTN Status Notification Form, Part B (see Annex D);
- o) accept changes of information associated with UPTNs (e.g., change of name, of address), via the UPTN Request Form, Part A (see Annex C);
- p) periodically confirm that assigned UPTNs are in use, at least between two countries, and exercise authority to take appropriate action regarding inactive UPTNs;
- q) monitor and audit the status of the UPTN resource and produce reports to the appropriate Study Group, including actual quantity of numbers assigned and growth statistics associated with those assignments;
- r) publish a list of assigned numbers using an agreed method;
- s) if a UPTN is inadvertently assigned to multiple UPTS customers, the Applicant with the earliest dated application will be the Applicant of record.

Annex C

Preparation of Universal Personal Telecommunications Number Request Form

C.1 Preparation of UPTN Request Form, Part A

The Universal Personal Telecommunications Number Request Form, Part A, is completed by the Applicant. The fields are as follows:

- a) Transmittal date: Date the form was sent.
- b) Company name (Applicant): As defined in clause 3 Applicant.
- c) Contact name and address: The contact name and address of the Applicant.
- d) Telephone, fax numbers, and e-mail address: The telephone, fax numbers and e-mail address of the Applicant.
- e) Request type:
 - New: A new service involving a new UPTN is established.
 - Change: An existing service requires modification (i.e., change of name, or of address).
 - Disconnect: An existing service is completely disconnected. The number can be assigned to another UPTS customer only after a six-month ageing period.
 - Cancel: The service does not exist yet, and the UPTS customer decides not to use this number. The number automatically goes into the pool of available numbers for immediate assignment.
- f) Reason for change: Indicate the type of change.
- g) Universal Personal Telecommunications Number.
- h) Expected due date: Service will be expected to officially commence on this date.
- i) Countries with which the UPTN will be initially implemented.
- j) Coordination (reference) number: A reference number assigned by the service provider to identify the number request. This number should be used as a cross-reference on the Universal Personal Telecommunications Number Request Form, and the Universal Personal Telecommunications Number Status Notification Form.
- k) Payment of the registration application fee: Indicate the method of payment used.

C.2 Preparation of UPTN Request Form, Part B

The Universal Personal Telecommunications Number Request Form, Part B, is completed by the Registrar. The fields are as follows:

- a) Transmittal date: Date the form was sent.
- b) Universal Personal Telecommunications Number: The number(s) assigned, based on its priority and availability, subject to the payment of the registration application fee.

Universal Personal Telecommunications Number Request Form

Part A filled out by the Applicant	Transmittal date: (a)	
(Applicant) Send to: Company name (b) UPTN Registrar Contact name (c) International Telecommunication Union Address Telecommunication Standardization Bureau Telephone number CH-1211 GENEVA 20, Switzerland Fax number Fax: +41 22 730 6200 E-mail address Tel: +41 22 730 6220 Request type (mark with an X): (e) New Change Disconnect Cancel Reason for change: (f)		
Universal Personal Telecommunications Number	er Requests: (g)	
Expected UPTS customer due date: (h) Country(ies) with which the UPTS will be implemented initially: (i) Coordination (reference) number: (j) Payment of the registration application fee: (k) Specify the method of payment use: by bank transfer to ITU account No.		
major credit card		
Part B filled out by the Registrar to be return	Transmittal date: (a)	
UPTN(s) has been assigned: (b)		
Remarks:		
Signature (Applicant/Reg	gistrar)	

Annex D

Preparation of Universal Personal Telecommunications Number Status Notification Form

D.1 Preparation of UPTN Status Notification Form, Part A

The Universal Personal Telecommunications Number Status Notification Form, Part A, is completed by the Applicant to advise Registrar of UPTN implementation. The fields are as follows:

- a) Transmittal date: Date the form was sent.
- b) Company name (Applicant): As defined in clause 3 Applicant.
- c) Contact name and address: The contact name and address of the Applicant.
- d) Telephone, fax numbers and e-mail address: The telephone, fax numbers and e-mail address of the Applicant.
- e) Universal Personal Telecommunications Number(s).
- f) Date of activation: The date that the number was activated internationally.
- g) Coordination (reference) number: A reference number assigned by the service provider to identify the number request. This number should be used as a cross-reference on the Universal Personal Telecommunications Number Request Form, and the Universal Personal Telecommunications Number Status Notification Form.
- h) UPTS customer name: Name of UPTS customer required; address optional.
- i) Enter appropriate remark if an UPTS customer is making a change in their Applicant (or in Items b, c or d).

D.2 Preparation of UPTN Status Notification Form, Part B

The Universal Personal Telecommunications Number Status Notification Form is completed by the Registrar to confirm the UPTN assignment to Applicant. The fields are as follows:

- a) Transmittal date: Date the form was returned.
- b) Universal Personal Telecommunications Number: The UPTN(s) that the Registrar has noted as placed in service, or from "assigned" to "disconnected".
- c) Updated change information.

Universal Personal Telecommunications Number Status Notification Form

Part A filled out by	the Applicant	Transmittal date: (a)
(Applicant)		Send to:
Company name	(b)	UPTN Registrar
Contact name	(c)	
Address		Talagammunication Standardization Purson
Telephone number	(d)	
Fax number		
E-mail address		FE 1 . 44 00 FO 0 (000)
The following UPTN(s	s) was implemented: (e) _	
Date of activation: (f)	Day Month	Year
Coordination (reference	ee) number: (g)	
Remarks: (i)		
Part B filled out by th	ne Registrar to be return	ed to Applicant
The below UPTN(s) ha	as been placed in service:	Transmittal date: (a)
(b)		
The below UPTN was	disconnected or	cancelled :
(c)		
Remarks: (d)		
Sign	ature (Applicant/Registrar	·)

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