



**ETSI
TECHNICAL
REPORT**

ETR 055-10

December 1992

Source: ETSI TC-NA

Reference: DTR/NA-70210

ICS: 33.080

Key words: UPT, supplementary service

**Universal Personal Telecommunication (UPT);
The service concept
Part 10: Supplementary services**

ETSI

European Telecommunications Standards Institute

ETSI Secretariat

Postal address: F-06921 Sophia Antipolis CEDEX - FRANCE

Office address: 650 Route des Lucioles - Sophia Antipolis - Valbonne - FRANCE

X.400: c=fr, a=atlas, p=etsi, s=secretariat - **Internet:** secretariat@etsi.fr

Tel.: +33 92 94 42 00 - Fax: +33 93 65 47 16

Copyright Notification: No part may be reproduced except as authorized by written permission. The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 1992. All rights reserved.

Contents

Foreword	5
1 Scope	7
2 Introduction.....	7
3 Interactions between UPT and line based supplementary services.....	7
4 Interactions among UPT supplementary services.....	7
5 The UPT supplementary services	8
5.1 Specification approach.....	8
5.2 List of UPT supplementary services	8
5.2.1 Identification UPT supplementary services	8
5.2.2 Call offering UPT supplementary services	8
5.2.3 Call completion UPT supplementary services.....	9
5.2.4 Multi-party UPT supplementary services.....	9
5.2.5 Community of interest UPT supplementary services	9
5.2.6 Charging UPT supplementary services.....	9
5.2.7 Additional information transfer UPT supplementary services	10
5.2.8 Call restriction UPT supplementary services.....	10
5.2.9 Security UPT supplementary services	10
History.....	11

Blank page

Foreword

ETSI Technical Reports (ETRs) are informative documents resulting from ETSI studies which are not appropriate for European Telecommunication Standard (ETS) or Interim-European Telecommunication Standard (I-ETS) status. An ETR may be used to publish material which is either of an informative nature, relating to the use or application of ETSs or I-ETSs, or which is immature and not yet suitable for formal adoption as an ETS or I-ETS.

This ETR introduces all of the Universal Personal Telecommunication (UPT) supplementary services to which a UPT user can subscribe and interactions between supplementary services (UPT and non-UPT) are described.

This ETR constitutes Part 10 of a multi-part ETR, with the following titles:

- ETR 055-1: "Universal Personal Telecommunication (UPT); The service concept Part 1: Principles and objectives".
- ETR 055-2: "Universal Personal Telecommunication (UPT); The service concept Part 2: General service description".
- ETR 055-3: "Universal Personal Telecommunication (UPT); The service concept Part 3: Service aspects of charging, billing and accounting".
- ETR 055-4: "Universal Personal Telecommunication (UPT); The service concept Part 4: Service requirements on security mechanisms".
- ETR 055-5: "Universal Personal Telecommunication (UPT); The service concept Part 5: UPT terminals and UPT access devices".
- ETR 055-6: "Universal Personal Telecommunication (UPT); The service concept Part 6: UPT subscription and service profile".
- ETR 055-7: "Universal Personal Telecommunication (UPT); The service concept Part 7: User procedures and user states".
- ETR 055-8: "Universal Personal Telecommunication (UPT); The service concept Part 8: Man-machine interface aspects".
- ETR 055-9: "Universal Personal Telecommunication (UPT); The service concept Part 9: Service requirements on numbering, addressing and identification".
- ETR 055-10: "Universal Personal Telecommunication (UPT); The service concept Part 10: Supplementary services".

An additional part (Part 11) which details the requirements on the protection of third parties, is due for publication in 1993.

Blank page

1 Scope

This ETSI Technical Report (ETR) introduces all of the Universal Personal Telecommunication (UPT) supplementary services to which a UPT user can subscribe. The UPT supplementary services are a set of supplementary services to which a UPT user can subscribe to enhance the basic features of the UPT service. Furthermore, interactions between supplementary services (UPT or non-UPT) are described.

The availability of UPT supplementary services is dependent upon the terminal and network used.

2 Introduction

The overall service environment in which UPT is provided includes the following supplementary services and users:

- 1) line or terminal based supplementary services provided to terminal owners;
- 2) UPT supplementary services provided to UPT users.

There may, in principle, be interactions between all these supplementary services and users. The interactions between line based supplementary services provided to terminal owners and the UPT service is treated, in general, in Clause 3. The various interactions between different UPT supplementary services provided to UPT users must be treated specifically for each supplementary service.

3 Interactions between UPT and line based supplementary services

UPT is a person oriented service, not a terminal oriented service. Therefore, in principle, a different behavior is required from networks in order to provide the personal service desired by the UPT user.

Line based supplementary services also concern the user/subscriber of the terminal access, and not the UPT user/subscriber. Conflicts will therefore occur in many cases.

Examples of conflicts between UPT and line based supplementary services subscribed to the user/subscriber of the concerned terminal access are:

- 1) if a UPT user registers for incoming calls to a terminal where a call forwarding is activated (the network should then be able to distinguish between normal calls, which must be forwarded, and UPT calls which must be presented to that terminal);
- 2) if a UPT user wants to use a terminal where some restrictive supplementary services are active, for instance if a terminal belongs to a virtual private network (in this case, the UPT activities should not be restricted).

It is desirable for the UPT service that all activated line based supplementary services at a terminal access are suspended when a UPT call or activity is handled. However, the rights and privacy of third parties (e.g. terminal owners) must also be protected.

4 Interactions among UPT supplementary services

Interactions among UPT supplementary services will be defined in the detailed description of each UPT supplementary service, which will be given in other ETRs.

5 The UPT supplementary services

5.1 Specification approach

For UPT, a set of UPT supplementary services is standardised, so that a UPT user can expect a common presentation for a set of standardised UPT supplementary services. These UPT supplementary services are all described in detail from the UPT user's perspective as part of the UPT specifications. UPT supplementary services may be similar or identical to line based supplementary services offered to terminal owners, and may also be completely UPT specification.

In addition, intelligent network techniques will enable flexible service creation and execution, and thus UPT service providers and UPT users/subscribers will together be able to assemble a wide range of personalised (non-standardised) UPT supplementary services.

5.2 List of UPT supplementary services

The UPT supplementary services are listed below. For each supplementary service, a short description is provided. The detailed definition of the services will be given in other ETRs.

NOTE: This list is foreseen to be elaborated and expanded in the future.

5.2.1 Identification UPT supplementary services

Calling party identity presentation: with this UPT supplementary service, the UPT user may specify that the identity of the calling user or terminal access shall be announced on the alerting terminal in the case of an incoming UPT call.

The identity of terminal access must never be presented if the calling party is a UPT user.

Calling party identity restriction: with this UPT supplementary service, the UPT user may specify that his UPT identity shall not be announced on the alerting terminal access when making an outgoing UPT call.

Connected user identity presentation: with this UPT supplementary service, the UPT user may specify that the identity of the connected user or terminal access shall be announced on the calling terminal when making an outgoing UPT call.

The identity of terminal access must never be presented if the called party is a UPT user.

Connected user identity restriction: with this UPT supplementary service, the UPT user may specify that his UPT identity shall not be announced on the calling terminal when receiving an incoming UPT call.

Personal addressing: with this UPT supplementary service, the UPT user may define and use other types of information than a number to initiate an outgoing UPT call, e.g. the called party's name, address, profession, etc. or a combination of these.

5.2.2 Call offering UPT supplementary services

NOTE: All of the call forwarding supplementary services are dependant on whether or not a UPT number can be used in the registration procedure, which is for further study.

Call forwarding UPT to UPT, unconditional: with this UPT supplementary service, the UPT user may unconditionally forward incoming UPT calls to another UPT user (i.e. to a UPT number rather than to a network access).

Call forwarding UPT to UPT on busy: with this UPT supplementary service, the UPT user may forward incoming UPT calls to another UPT user (i.e. to a UPT number rather than to a network access) on a busy condition (i.e. the UPT user is already in communication).

Call forwarding UPT to UPT on no answer: with this UPT supplementary service, the UPT user may forward incoming UPT calls to another UPT user (i.e. to a UPT number rather than to a network access) on a no answer condition.

Call forwarding UPT to UPT on not reachable: with this UPT supplementary service, the UPT user may forward incoming UPT calls to another UPT user (i.e. to a UPT number rather than to a network access) on a not reachable condition (i.e. the UPT user has no current registration for incoming UPT calls).

5.2.3 Call completion UPT supplementary services

Call waiting for incoming UPT calls: with this UPT supplementary service, the UPT user may, during active communication, be informed with an appropriate indication that there is another incoming UPT call waiting for him to be answered.

Call hold for incoming UPT calls: with this UPT supplementary service, the UPT user may, during active communication, temporarily interrupt (hold) the communication in order to answer another incoming UPT call or make another outgoing UPT call, and then later resume the first communication.

Call resume: with this UPT supplementary services, the UPT user may resume a call which has previously been interrupted (using the call hold for incoming UPT calls supplementary service) at any new terminal access of his choice.

Completion of outgoing UPT calls to busy user: with this UPT supplementary service, the UPT user may, when receiving a busy indication during an outgoing UPT call, clear the communication and request that the UPT call is set up as soon as the busy user is available. The calling UPT user will be notified when the outgoing UPT call is set up.

5.2.4 Multi-party UPT supplementary services

Multiparty communication: with this UPT supplementary service, the UPT user may, during active communication, temporarily interrupt (hold) the communication in order to make another outgoing UPT call, and when the new call is established, reconnect the original communication as well as the new one for a simultaneous multi-party communication. This can be done with several other parties.

5.2.5 Community of interest UPT supplementary services

Closed UPT user group: with this UPT supplementary service, a community of pre-defined UPT (or non-UPT) users may form a closed user group, which is exclusive to the members and cannot be reached by non-members. The UPT users of the group may also be restricted to making outgoing UPT calls within the group.

Private UPT numbering plan: with this UPT supplementary service, a community of pre-defined UPT (or non-UPT) users may form an internal numbering plan using short numbers or alphanumeric codes.

5.2.6 Charging UPT supplementary services

Advice of charges at UPT call setup: with this UPT supplementary service, the UPT user may, at incoming/outgoing UPT call setup, request the status of the UPT charges for the call in question.

Advice of charges during UPT call: with this UPT supplementary service, the UPT user may, during a UPT call, request the status of the UPT charges for the call in question.

Advice of charges at UPT call completion: with this UPT supplementary service, the UPT user may, at the end of a UPT call, request the status of the UPT charges for the call in question.

Premium charging: with this UPT supplementary service, the UPT user may require that calling parties shall incur extra charges when making UPT calls to the UPT user. These charges will be collected by the UPT subscriber. This UPT supplementary service can be used by UPT users to offer value added services to those users calling them.

All charge acceptance for incoming UPT calls: with this UPT supplementary service, the UPT subscriber may accept to pay all the charges for incoming UPT calls depending on calling UPT user or terminal access (e.g. the UPT user can accept all charges for selected users).

Charge refusal for incoming UPT calls: with this UPT supplementary service, the UPT user may refuse to pay any charge for incoming UPT calls depending on calling UPT user or terminal access (e.g. the UPT user can refuse all charges for selected users).

5.2.7 Additional information transfer UPT supplementary services

Calling party message presentation: with this UPT supplementary service, an arbitrary message, programmed by the UPT user, can be displayed or announced on the caller's terminal when the UPT user is called.

5.2.8 Call restriction UPT supplementary services

Password screening of incoming UPT calls: with this UPT supplementary service, the UPT user may specify that only incoming UPT calls for which the calling user has the knowledge of a password defined by the UPT user shall be allowed to proceed.

Priority screening of incoming UPT calls: with this UPT supplementary service, the UPT user may specify that only incoming UPT calls indicating a priority shall be allowed to proceed.

Pre-defined screening of outgoing UPT calls: with this UPT supplementary service, the UPT subscriber may subject all outgoing UPT calls to a screening procedure to see if they can be allowed to proceed.

Pre-defined screening of incoming UPT calls: with this UPT supplementary service, the UPT user may subject all incoming UPT calls to a screening procedure to see if they can be allowed to proceed.

Barring of all incoming UPT calls: with this UPT supplementary service, the UPT user may specify that no incoming UPT calls shall be allowed to proceed.

Barring of all outgoing UPT calls: with this UPT supplementary service, the UPT user may specify that no outgoing UPT calls shall be allowed to proceed.

Barring of all international incoming UPT calls: with this UPT supplementary service, the UPT user may specify that no international incoming UPT calls shall be allowed to proceed.

Barring of all international outgoing UPT calls: with this UPT supplementary service, the UPT user may specify that no international outgoing UPT calls shall be allowed to proceed.

Barring of all incoming UPT calls when roaming: with this UPT supplementary service, the UPT user may specify that no incoming UPT calls shall be allowed to proceed when the UPT user is roaming (i.e. the UPT user's registration for incoming UPT calls is not within the default charging area).

Barring of all outgoing UPT calls when roaming: with this UPT supplementary service, the UPT user may specify that no outgoing UPT calls shall be allowed to proceed when the UPT user is roaming (i.e. the UPT user's current location is not within the default charging area).

5.2.9 Security UPT supplementary services

Calling UPT user specified secure answering of calls to UPT users: with this UPT supplementary service, the UPT user may specify that, when making calls to other UPT users, the answering UPT user must first successfully authenticate the called UPT user's identity before completion of the call.

History

Document history	
December 1992	First Edition
February 1996	Converted into Adobe Acrobat Portable Document Format (PDF)