

# ETSI TECHNICAL COMMITTEE REFERENCE TECHNICAL REPORT

**TCR-TR 022** 

October 1994

Source: ETSI TC-NA Reference: DTR/NA-072001

ICS: 33.020

Key words: UPT

# Network Aspects (NA); Universal Personal Telecommunication (UPT) ETSI work programme for Phase 2 UPT

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European Telecommunications Standards Institute

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### **Foreword**

This ETSI Technical Committee Reference Technical Report (TCR-TR) describes the work programme for the standardization of the UPT Phase 2 Service to be carried out in ETSI.

This Technical Committee Reference Technical Report (TCR-TR) was produced by the Network Aspects (NA) Technical Committee of the European Telecommunications Standards Institute (ETSI). It was given the classification of TCR-TR by the 17th TC Chairmen Co-ordination (TCC) meeting and approval by the 20th Technical Assembly (TA).

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### 1 Scope

This ETSI Technical Committee Reference Technical Report (TCR-TR) describes the work programme for the standardization of the UPT Phase 2 Service to be carried out in ETSI. According to the mandate given to STC NA7 to coordinate the standardization of UPT in ETSI, STC NA7 has identified deliverables which are to be developed by STC NA7 as well as by other STCs in ETSI. Target dates for the deliverables are given as well as the various STC responsibilities.

### 2 Introduction

UPT is a complex concept, where a great variety of features can be foreseen and where interworking among networks is an important issue. In order to harmonize the standardization of UPT with the foreseeable evolution of the network capabilities needed to support the various features and with the development of user needs, the standardization of UPT is approached in phases. A perspective of a phased standardization of UPT as developed by STC NA7 is as follows:

### Phase 1 UPT service: restricted scenario:

restrictions (e.g. only for PSTN and ISDN), simple security procedures, restricted number of features (e.g. no registered mode for outgoing calls, no UPT-specific supplementary services).

Target date for the necessary set of standards: end 1993.

### Phase 2 UPT service: basic scenario:

includes e.g. radio mobile networks, advanced security, full set of basic (essential) features.

Target date for the necessary set of standards: end 1995.

### Phase 3 UPT service: advanced scenario:

includes e.g.: other networks, terminals at fixed networks with specific UPT functions, advanced features.

Target date for the necessary set of standards: end 1997.

While the standardization of the UPT Phase 1 service is on the way to be completed, the present TCR-TR describes the next step. It should be noted that the deliverables identified for the Phase 2 UPT service are meant to be "delta documents", i.e. full compatibility to Phase 1 UPT should be the goal.

### 3 Explanatory notes on the ETSI work programme for UPT Phase 2

### 3.1 Main areas of interest for the UPT Phase 2 service

For the UPT Phase 2 service the following aspects are to be considered:

- UPT features;
- UPT in GSM;

NOTE: The need for other radio access systems, e.g. DSSR, to support UPT is for further study.

- Chip cards and card reading devices;
- Data services.

### 3.2 Details of work areas and deliverables

### 3.2.1 UPT features

The UPT Phase 2 Service is intended to include the core features and to an extent to be determined additional features from the list of features given in ETR 055-2). Additions to the Phase 1 UPT Service features will likely include, e.g.:

- OutCall, AllCall and linked registrations;
- Secure answering of incoming UPT calls;
- Call pick-up.

Also, additional supplementary services for UPT may be specified.

The specification of Phase 2 UPT will result in NA7 deliverables analogous to the service and network-related TCTRs for Phase 1, to support the deliverables of other STCs. It is foreseen to issue "delta documents" to the respective Phase 1-related documents.

### 3.2.2 **UPT in GSM**

Phase 1 UPT service set of standards allows a UPT user with a UPT subscription of a wired network operator to roam into a present (non-UPT) GSM network (restrictions; e.g outgoing calls are GSM-calls). Also a UPT user can be called from the GSM (restrictions: e.g. tromboning). The minimum support for this in the GSM network is to be studied.

Phase 2 UPT service should be supported by a GSM network which is upgraded to a full UPT network itself, interworking with wired UPT networks. This includes the possibility for operators of GSM networks to provide UPT subscriptions on their own.

### 3.2.3 Cards, card reading devices

Due to the request of users (and not at last due to UPT in the GSM network), IC cards must be taken regard to in the set of standards for Phase 2 UPT service. The goal is that the same card can be used in GSM networks as well as in wired networks (see figure). Although it may take a long time, before card telephones generally will be available for UPT, it may be necessary to include standards for them in the set of Phase 2 standards, since card telephones for UPT may be wanted for (semi)public areas, e.g. hotel rooms.

NOTE: Adaption of conventional telephones may also be considered.

It is proposed to take the concept of the multi-application card being developed in STC TE9 as a basis (STC TE9: Requirements for IC cards and terminals for telecommunication use, Part 2). Thus, in NA7 (with guidance by TE9) the following card applications may have to be specified:

- UPT application for an IC card for use of card reading DTMF-devices, one-pass authentication algorithm;
- UPT application for an IC card for use of PSTN, ISDN and GSM terminals, one-pass and multi-pass authentication algorithm.

NOTE: It is not yet decided, whether two-way authentication will be applied in Phase 2.

As regards terminals, the functionality directly associated with the card interface is to be specified together with the card interface. However, also general terminal functions may become necessary in order to facilitate the communication of card information with the network. The implications on ISDN needs to be studied particularly carefully.

### 3.2.4 Data services

This is a subject for further study. It is reflected to data services, where the call set-up is automatic and where specific provisions must be foreseen for the authentication. Also, the implications of networks or applications not using centralized call handling (MAN, connectionless) on UPT should be investigated.

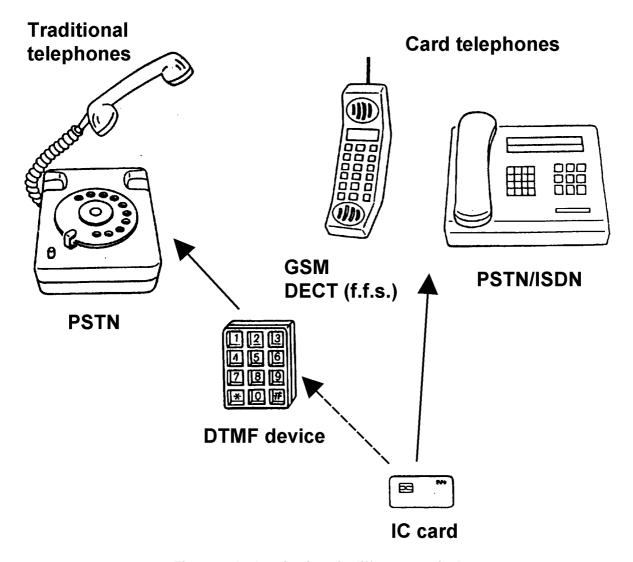


Figure 1: Authentication via different terminals

ETSI Work Programn	ne for the UPT	ETSI Work Programme for the UPT Phase 2 Service, rev.5 (January 1994)			page 1 of 5
Approved Work Items of STC NA7	of STC NA7				
Int. Ref. Nr.	Type	Title	Status	STC planned approval date	Rapporteur
NA 720		UPT PHASE 2 SERVICE, STANDARDIZATIONS MANAGEMENT			
+DTR/NA-72001	TCRTR	ETSI Work Programme for a UPT Service Phase 2		03/93	Arndt
NA 721		UPT PHASE 2 SERVICE, GUIDELINES			
DTR/NA-72101	TCTR	UPT Phase 2, Service Aspects, Guidelines		03/94	Ciancetta
DTR/NA-72102	TCTR	UPT Phase 2, Network Aspects, Overview		12/94	Gamboa
NA 722		UPT PHASE 2 SERVICE, SERVICE DESCRIPTION			
DTR/NA-72202	TCTR	UPT Phase 2, Service aspects on charging and billing		03/94	Tessmar
DTR/NA-72203	TCTR	UPT Phase 2, Service requirements on security mechanisms		06/94	vacant
DTR/NA-72204	TCRTR	UPT Phase 2, Terminals and Access Devices (overview)		03/94	Ennis
DTR/NA-72205	TCRTR	UPT Phase 2, Subscriptions, service profiles and information model		06/94	Boulot
DTR/NA-72206	TCRTR	UPT Phase 2, User procedures and user states		03/94	Lycksell
DTR/NA-72208	TCTR	UPT Phase 2, Service requirements for identification		03/94	Forbes
DTR/NA-72209	TCTR	UPT Phase 2, Requirements on the protection of third parties		03/94	Ennis
DTR/NA-72210	TCTR	UPT Phase 2, UPT supplementary services		06/94	vacant

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Int. Ref. Nr.	Туре	Title	Status	STC planned approval date	Rapporteur
NA 723 UPT PHASE	2 SERVICE, N	NA 723 UPT PHASE 2 SERVICE, NETWORK ASPECTS			
DTR/NA-72301	TCRTR	UPT Phase 2, Requirements on information flows and protocols		12/94	Tieffry
DTR/NA-72302	TCTR	UPT Phase 2, Network requirements on dialling, routing and numbering $^{st}$			
DTR/NA-72303	TCRTR	UPT Phase 2, Architecture and functionalities for interworking		12/94	Boulot
DTR/NA-72304	TCRTR	UPT Phase 2, Network functionalities for feature interaction		09/94	Amato
DTR/NA-72305	TCTR	UPT Phase 2, Network functionalities related to charging		12/94	vacant
NA 724 UPT PHASE 2 SERVICE, SECURITY	2 SERVICE, S	SECURITY			
DE/NA-72401	ETS	UPT Phase 2, Specification of the security architecture		03/95	Christoffersson
DTR/NA-72402	TCTR	UPT Phase 2, Security algorithms requirements specification		03/95	Christoffersson
DE/NA-72403	ETS	CTS for DE/NA-72401		26/90	Christoffersson

<sup>\*</sup> pending, may be covered by NA2

Int. Ref. Nr.	Туре	Title	Status	STC planned approval date	Rapporteurs to be appointed
NA 725 UPT PHASE SERVICE 2, IC CARDS for UPT	SERVICE 2, IC	CARDS for UPT			
DE/NA-72501	ETS	Functional specification of the interface of a UPT IC-card and card accepting devices		12/94	Hiolle
		Version 1: UPT card accepting DTMF device			
DE/NA-72502	ETS	CTS for DE/NA-72501		03/95	Hiolle
DE/NA-72503	ETS	Functional specification of the interface of a UPT IC-card and card accepting devices		96/92	Hiolle
		Version 2: PSTN, ISDN and GSM terminals (one pass and multiple pass authentication)			
DE/NA-72504	ETS	CTS for DE/NA-72503		96/90	Hiolle

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ETSI Work Programme for UPT Phase 2 Service

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Proposed Work Items of STCs other than STC NA7

Int. Ref. Nr.	Туре	Title	Status	STC approval date	Rapporteurs to be appointed
DE/NA-1xxx	ETS	Definition of a UPT Phase 2 Service (may become ETR)		12/94	
DTR/NA-2xxx	ETR	Numbering and addressing for UPT Phase 2 Service		96/90	
T/Sxxxx	ETS	Description of a UPT Phase 2 Service (Stage 3)		96/92	
DTR/SMG-yxxxx	ETR	Support of UPT Phase 1 in GSM networks		06/94	
DTR/SMG-yyxxx	ETR	Support of UPT Phase 2 in GSM networks		06/94	
DE/RES-yxxxx	ETR	Support of UPT in radio access systems		06/94	
DE/SAGE-yxxxx	ETS	Authentication algorithm for UPT (multiple pass authentication)		96/90	
DE/TE-yxxaa	ETS	Functional specification of a card reading DTMF-type device		12/94	
DE/TE-yxxab	ETS	CTS for DE/TE yxxaa		03/95	
DE/TE-yxxba	ETS	Functional specification of a card reading UPT PSTN terminals		96/90	
DE/TE-yxxbb	ETS	CTS for DE/TE yxxba		09/94	
DE/TE-yxxca	ETS	Functional specification of a card reading UPT PSTN terminals		96/90	
DE/TE-yxxcb	ETS	CTS for DE/TE yxxca		96/60	
DTR/BT-1009	ETR	Interworking of public and private networks for the UPT Phase 2 Service		06/94	

Legend

provides information being of importance also outside ETSI (e.g. an ETSI position to be made known to other bodies) ETR

approved on TC level

provides information being of importance also within ETSI (e.g. work results to support other groups)

approved on TC level

provides information related to the management of studies within ETSI

TCRTR

TCTR

approved on TCC/TA level

ETSI numbering scheme for deliverables as used in TC NA:

[deliverable type]/NA-qxxyy

number of STC number of work area within STC σ××

deliverable number within work area

Conformance Testing Specification

CTS

# STC approved, for TC approval + TC approved, for publication \$ published

	Work Item Reference: [	DTR/NA-72101
Deliverable type: TCTR	Creation dat	e: 26.3.93
Deliverable type: 10110	Approval Pro	
	Bon de Com	
	Project Tear	
STC in charge: NA7	r roject rear	11.
STO III charge. NAI	Rapporteur: M.C. Ciano	etta
	rapporteur. W.O. Olario	otta
Title:		
UPT Phase 2, Service Aspects, Guidelines		
OF I Friase 2, Service Aspects, Guidelines		
Scope:		
	( D)	
The document provides the description of new service feature		
containing only the features description not included in the P	hase 1 Service Guideline	es
Keywords:		
UPT, UPT Phase 2, UPT service features		
or 1, or 1 mass 2, or 1 service reatures		
Reference Documents:		
Reference Boodinents.		
Remarks:		
ivenial ks.		
	Dates	3
Milestone	Ontainal	(Aabiana I)
Milestones	Original	(Achieved)
Start of work Table of Contents and Soone Ausilable	11/92	
Table of Contents and Scope Available	3/93	
Stable draft Ready	9/93	
STC Approval	3/94	
TC Approval		
Draft received by ETSI secretariat		

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	Work Item Reference:	DTR/NA-72102
Deliverable type: TCTR	Creation da	ate: 26.3.93
Don't or all to the	Approval P	
	Bon de Co	
	Project Tea	
STC in charge: NA7	,	
	Rapporteur: Fernande	z de Gamboa
Title:		
UPT Phase 2: Network aspects, Overview		
Scope:		
This ETSI Draft Technical Report directs the reader as to the	a contents of the natwo	rk genoete ronarte for
UPT Phase 2. It also highlights the limitations, restrictions a		
scales and network capabilities. This document relates to D		
for service aspects of UPT Phase 2.	Transcript Willow ope	Joined the galacimics
Keywords:		
UPT, UPT Phase 2 Overview, network requirements		
Reference Documents:		
Remarks:		
	Date	es
Milestones	Original	(Achieved)
Start of work	3/93	
Table of Contents and Scope Available	9/93	
Stable draft Ready	9/94 12/94	
STC Approval TC Approval	12/94	
Draft received by ETSI secretariat		
Dian received by Li 31 Secretarial		1

	Work Item Reference: D7	TR/NA-72202
Deliverable type: TCTR	Creation date: Approval Proc Bon de Comm Project Team:	cedure: nande: :
STC in charge: NA7	ETSI Project: Rapporteur: G. Tessmar	UPT
Title:		
UPT Phase 2: Service aspects on charging an billing		
Scope:		
ocope.		
Negwords: Service features, Charging, Billing  Reference Documents: TCTR/NA-71202, CCITT draft rec.		of new features)
Remarks:		
	Dates	
Milestones	Original	(Achieved)
Start of work	03/93	
Table of Contents and Scope Available	08/93	
Stable draft Ready	02/94	
STC Approval	03/94	
TC Approval		
Draft received by ETSI secretariat		

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	Work Item Reference:	DTR/NA-72203
Deliverable type: TCTR	Creation dat Approval Pr Bon de Com Project Teal	ocedure: nmande:
STC in charge: NA7	Rapporteur: JC. Dang	
Title:		
UPT Phase 2, Service Requirements on Security Mechanism	ms	
Scope:		
ocope.		
This document specifies the service requirements on securit service.	ty features involved with	the phase 2 UPT
Keywords:		
UPT, security		
Reference Documents:		
Remarks:		
This document should be read in conjunction with ETR-055-architecture for UPT phase 2 is given in ETS/NA-72401	4. More information on th	ne security
	Dates	5
Milestones	Original	(Achieved)
Start of work	3/95	
Table of Contents and Scope Available	9/93	
Stable draft Ready	5/95 6/94	
STC Approval TC Approval	8/94	
Draft received by ETSI secretariat	9/94	
,		NWI-203.doc

	Work Item Reference:	DTR/NA-72204
Deliverable type: TCTR	Creation da	ate: 26.3.93
	Approval P	
	Bon de Cor	
	Project Tea	ım:
STC in charge: NA7	5	
	Rapporteur: Jerry Enni	S
Title:		
UPT Phase 2: Terminals and Access Devices		
Scope:		
This TCTR describes the various terminals and UPT access		
of UPT. The TCTR provides an overview only. Detailed desc	criptions of specific term	inals or access
devices will be provided in separate documents.		
Keywords:		
UPT, terminals		
Reference Documents:		
Remarks:		
	Date	s
Milestones	Original	(Achieved)
Start of work	9/93	(
Table of Contents and Scope Available	9/93	
Stable draft Ready	1/94	
STC Approval	3/94	
TC Approval		
Draft received by ETSI secretariat		

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	Work Item Reference:	: DTR/NA-72205	
Deliverable type: TCTR	Creation da	ate: 26.3.93	
Zonio apper i di ili	Approval P		
	Bon de Co		
	Project Tea		
STC in charge: NA7			
G. G. II. G. G. G. F. II. II.	Rapporteur: Boulot		
	. tapportour. 20uiot		
Title:			
UPT Phase 2: Subscriptions, service profile and information	model		
Scope:			
This Technical Report is related to UPT Phase 2 service and			
UPT Phase 1; it describes the UPT subscriptions and the se			
contained, the access rights on it and the operation allowed			
presented informally. This information model is split into ent			
of the UPT service; also the attributes attached to each of the	ne entities are described	l.	
Keywords:			
UPT, service profile, subscription, information model			
Deference Decuments			
Reference Documents:			
Remarks:			
This working may be impacted by future mandates from EC	to ETSI, on data protec	tion, confidentiality	
and privacy.			
Dates			
		1	
Milestones	Original	(Achieved)	
Start of work	3/93		
Table of Contents and Scope Available	9/93		
Stable draft Ready	3/94		
STC Approval	6/94		
TC Approval			
Draft received by ETSI secretariat			

Work Item Reference: DTR/NA-72206

**Deliverable type:** TCTR Creation date: 26.03.93

Approval Procedure: Bon de Commande: Project Team:

STC in charge: NA7 ETSI Project:

Rapporteur: E. Lycksell

Title:

UPT Phase 2, Service Aspects, User Procedures and User States

### Scope:

This document describes the UPT User procedures that are added or modified compared to Phase 1 (TCTR/NA-71206) in order to support the new UPT features of Phase 2. The added features compared to Phase 1 are summarized in TCTR/NA-72101: UPT Phase 2, Service Aspects, Guidelines.

The report gives a general description of the various UPT procedures and the related states of the UPT User. It describes the UPT procedures as seen from the UPT User or any other user in terms of possible interactions with the UPT Service. No restrictions in terms of network implementation of Man Machine Interface are included. Such requirements are given in other technical specifications.

### **Keywords:**

UPT, user procedures, states

### **Reference Documents:**

ETR 055-7, TCTR/NA-71206

### Remarks:

This document should be read in conjunction with TCTR/NA-71206 and ETR 055-7

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	13	**	30
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Milestones	Original	(Achieved)
Start of work	03/93	03/93
Table of Contents and Scope Available	09/93	
Stable draft Ready	01/94	
STC Approval	03/94	
TC Approval	05/94	
Draft received by ETSI secretariat	05/94	

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# **ETSI Work Programme (New Work Item)**

	Work Item Reference:	DTR/NA-72207
Deliverable type: TCTR	Creation da Approval P Bon de Co Project Tea	mmande:
STC in charge: NA7	Rapporteur: To be ass	
Title:		
UPT Phase 2: Man Machine Interface Aspects		
Scope:		
This TCTR specifies the requirements for the UPT phase 2 UPT access devices. It gives general phase 2 requirements	service, involving the UF on MMI and associated	PT user, terminals and procedures.
Keywords: UPT, MMI		
Reference Documents:		
Remarks:		
	Date	<b>!S</b>
Milestones	Original	(Achieved)
Start of work	9/93	
Table of Contents and Scope Available	9/93	
Stable draft Ready	3/94	
STC Approval	6/94	
TC Approval		
Draft received by ETSI secretariat		

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	Work Item Reference: D	OTR/NA-72208
Deliverable type: TCTR  STC in charge: NA7	Creation date Approval Pro Bon de Comi Project Team ETSI Project Rapporteur: Ray Forbes	cedure: mande: n: : UPT
Title:		
UPT Phase 2: Service Requirements on Identification		
This technical report gives phase 2 delta requirements on Ul routing. The detailed UPT numbering and addressing plans into account all WTSC and CCITT recommendation. Require are also given.	are defined in other Techi	nical Reports, taking
Keywords: addressing, identification		
Reference Documents:		
ETR 055, TCTR 71208		
Remarks:		
	Dates	
Milestones	Original	(Achieved)
Start of work	22/03/93	22/03/93
Table of Contents and Scope Available	26/03/93	26/03/93
Stable draft Ready	30/09/93	
STC Approval	30/12/93	
TC Approval	30/06/94	
Draft received by ETSI secretariat	30/07/94	

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	Work Item Reference:	DTR/NA-72209
Deliverable type: TCTR	Creation da Approval P Bon de Coi Project Tea	mmande:
STC in charge: NA7	Rapporteur: Jerry Enn	
Title:		
UPT Phase 2: Requirements on the protection of third partie	es	
Scope:		
This document describes the measures required to protect tinappropriate use of UPT.	hird parties form consec	quences of
Keywords: UPT, third parties rights		
Reference Documents:		
Remarks:  This document is listed in the work programme, however, in the general document ETR 055-9 fully describes the subjection.		er it is in fact required.
	Date	s
Milestones	Original	(Achieved)
Start of work	9/93	,
Table of Contents and Scope Available	9/93	
Stable draft Ready	1/94	
STC Approval	3/94	
TC Approval		
Draft received by ETSI secretariat		
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	Work Item Reference: I	OTR/NA-72210
Deliverable type: TCTR	Creation date Approval Pro Bon de Com Project Tean	ocedure: mande:
STC in charge: NA7		
	Rapporteur: G. Alfano	
Title:		
LIDT Dhaga 2 LIDT Cumplementons Comisses		
UPT Phase 2, UPT Supplementary Services		
Cooper		
Scope:		
The document describes the new UPT supplementary service UPT Phase 2.	ces which are wented for	welusion as a part of
Manusanda.		
Keywords:		
Reference Documents:		
ETR 055-10 and TCTR/NA 71210		
Zirk doc to and retrotory.		
Remarks:		
	Dates	
Milestones	Original	(Achieved)
Start of work	9/93	
Table of Contents and Scope Available	9/93	
Stable draft Ready STC Approval	3/94 6/94	
TC Approval	0/07	
Draft received by ETSI secretariat		

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	Work Item Reference: DTR/NA-72301
Deliverable type: TCTR	Creation date: 26.03.93 Approval Procedure: Bon de Commande: Project Team:
STC in charge: NA7	ETŚI Project: UPT
	Rapporteur: J. B. Thieffry
Title:	
UPT Phase 2: Requirements on Information Flo	ows and Protocols
Scope:	
This TR describes the relationships between F necessary for UPT Phase 2.	unctional Entities and the sequences of Information Flow
Keywords:	
Reference Documents:	
Remarks:	
This TR will include only additional requiremen	ts for UPT Phase 2
	Dates
	Dates
Milestones	Original (Achieved)
Start of work	3/93
Table of Contents and Scope Available	6/93
Stable draft Ready	9/94
STC Approval	12/94
TC Approval	
Draft received by ETSI secretariat	

	Work Item Reference:	DTR/NA-72303
Deliverable type: TCTR	Creation da Approval P Bon de Cor Project Tea	rocedure: nmande:
STC in charge: NA7	Rapporteur: Boulot	
Title:		
UPT Phase 2: Architecture and functionalities for interworking	ng	
Scope:		
This Technical Report defines the functional architecture an It gives a high-level description of network functions require several classes. It describes the architecture and interconne functions to the functional entities of the architecture. The reof the Intelligent Network model are assessed. The UPT arc cases of call handling and service management. Evolution farchitecture is taken into account.	d to support UPT, categorection scenarios and allo equirements of UPT on the chitecture is then applied	orising them into cates network ne functional entities to several example
Keywords: UPT, IN Architecture, UPT Interworking		
Reference Documents:		
Remarks:  Early drafts of the document will be liaised to NA6 in order to establish a working relationship between the two groups as soon as possible.		
	Date	S
Milatona	Oninin al	/Achieur II
Milestones Stort of work	Original	(Achieved)
Start of work  Table of Contents and Scope Available	3/93	
Table of Contents and Scope Available	7/93 6/94	
Stable draft Ready STC Approval	12/94	
TC Approval	4/95	
Draft received by ETSI secretariat	1700	

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# **ETSI Work Programme (New Work Item)**

	Work Item Reference: I	OTR/NA-72304
Deliverable type: TCTR  STC in charge: NA7	Creation dat Approval Pro Bon de Com Project Tear	ocedure: imande:
	Rapporteur: A. Amato	
Title:		
UPT Phase 2, Network functionalities for feature interaction		
Scope:		
This document gives a description of the issues and required between the features of the UPT service Phase 2 and the fe supporting networks.		
Keywords: UPT, feature interaction		
Reference Documents:		
Remarks:		
Remarks.		
This document should be read in conjunction with DTR/NA-7 Contribution on this item are expected.	70304.	
	Dates	•
Milestones	Original	(Achieved)
Start of work	3/93	
Table of Contents and Scope Available	9/93	
Stable draft Ready	6/94	
STC Approval	9/94	
TC Approval		
Draft received by ETSI secretariat		

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	Work Item Reference: D	ΓR/NA-72305
Deliverable type: TCTR	Creation date: Approval Proc Bon de Comm Project Team:	edure: nande:
STC in charge: NA7	ETSI Project: Rapporteur: A. Lensink	
Title:		
UPT Phase 2, Network functionalities related to charging ca	ll records	
Scope:		
This technical report gives requirements on the functionalities in the network for the generation and distribution of call records for UPT phase 2.  This document is a delta document to DTR/NA-71305:  "UPT phase 1, network functionalities for charging, billing and accounting".		
Keywords:		
UPT, charging, call record		
Reference Documents:		
ETR 065, DTR/NA-72202, DTR/NA-71305		
Remarks:		
	Dates	
Milestones	Original	(Achieved)
Start of work	03/93	
Table of Contents and Scope Available	06/93	
Stable draft Ready	06/94	
STC Approval	12/94	
TC Approval		
Draft received by ETSI secretariat		

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Work Item Reference: DTR/NA-72401

Deliverable type: ETS	Creation da	
	Approval Pr	
	Bon de Con Project Tea	
STC in charge: NA7	Project rea	III <b>.</b>
ore in charge. With	Rapporteur: Christoffer	son
	• • • • • • • • • • • • • • • • • • • •	
Title:		
LIDT DI O D II di Cil O II A LII A		
UPT Phase 2: Realisation of the Security Architecture		
Cooper		
Scope:		
This document describes the security features, mechanisms	and protocols which are	e standardised for
implementation in UPT phase 2.	and protocolo willon are	otarida di oca i oi
'		
Keywords:		
UPT, security, authentication, IC card		
Reference Documents:		
DTR/NA-70401, DE/NA-71401		
DTI(NA-70401, DE/NA-71401		
Remarks:		
Tronia no		
	Dates	S
Milestones	Original	(Achieved)
Start of work	1/9/93	<u> </u>
Table of Contents and Scope Available	31/3/94	
Stable draft Ready	31/12/94	
STC Approval	31/3/95	
TC Approval		
Draft received by ETSI secretariat		NWI-401.doc

	Work Item Reference: D	DTR/NA-72402
Deliverable type: TCTR	Creation date Approval Pro Bon de Com Project Tean	ocedure: mande:
STC in charge: NA7	Rapporteur: Christoffers	
Title:		
ritte:		
UPT Phase 2, Security algorithms requirements specification	า.	
Scope:		
This standard describes the requirements for authentication authentication), in UPT phase 2.	algorithms (one pass or r	multiple pass
Vanagada.		
<b>Keywords:</b> UPT, authentication, algorithm		
or 1, addrondoddon, digonami		
Reference Documents:		
DTR/NA-70401, DTR/NA-71402, DE/NA-72401		
Demayles		
Remarks:		
	Dates	
Milestones	Original	(Achieved)
Start of work	Original 1/9/93	(Acilieved)
Table of Contents and Scope Available	31/3/94	
Stable draft Ready	31/12/94	
STC Approval	31/3/95	
TC Approval		
Draft received by ETSI secretariat		<u> </u>

NWI-402.doc

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# **ETSI Work Programme (New Work Item)**

Deliverable type: ETS  Creation date: 29.3.93  Approval Procedure:  Bon de Commande:  Project Team:			
STC in charge: NA7 Rapporteur: Christoffersson			
Title:			
Title.			
CTS for DE/NA-72401			
Scope:			
This document in the Conformance Test Standard for DE/NA-72401 "UPT phase 2: Realisation of the Security Architecture".			
Keywords:			
UPT, security, CTS			
Reference Documents:			
DE/NA 72404			
DE/NA-72401			
Remarks:			
Dates			
Milestones Original (Achieved)			
Start of work 1/3/94			
Table of Contents and Scope Available 30/6/94			
Stable draft Ready 30/3/95			
STC Approval 20/6/05			
STC Approval 30/6/95 TC Approval			

NWI-403.doc

	Work Item Reference: DTR/NA-72501	
Deliverable type: ETS	Creation dat	
	Approval Pro	
	Bon de Com	
STC in charge: NA7	Project Tear	n:
STC in charge: NA7	Rapporteur: Hiolle	
Title:		
Functional specification of the interface of a UPT IC-card an	d DTMF-devices.	
Scope:		
от при		
The specification is to describe the mechanical electrical and		
devices. This includes the specification of card data and ope	rations as well as of the	necessary terminal
functions for the communication between card and terminal.		
Keywords:		
UPT, IC-card, DTMF-device		
Reference Documents:		
Remarks:		
The work will be based on existing specifications of SMG, R	ES, TE9, the UPT-specif	ic specifications have
to be added.		
	Detec	
	Dates	
Milestones	Original	(Achieved)
Start of work	9/93	
Table of Contents and Scope Available	12/93	
Stable draft Ready	10/94	
STC Approval	12/94	
TC Approval Draft received by ETSI secretariat	2/95 3/95	
Drait received by E 131 Secretariat	3/33	NWI-501.doc

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# **ETSI Work Programme (New Work Item)**

Deliverable type: ETS  Creation date: 25.3.93 Approval Procedure:		
Bon de Commande: Project Team:		
STC in charge: NA7		
Rapporteur: Hiolle	Rapporteur: Hiolle	
Title:		
CTS for DE/NA-72501		
Scope:		
·		
Keywords:		
UPT, IC-card, DTMF-device		
Pulsaria Programma		
Reference Documents:		
Remarks:		
Dates	Dates	
Milestones Original (Achieved)		
Start of work 10/94		
Table of Contents and Scope Available 10/94		
Stable draft Ready 2/95		
STC Approval3/95TC Approval5/95		
Draft received by ETSI secretariat 6/95		

NWI-502.doc

	Work Item Reference: [	OTR/NA-72503	
Deliverable type: ETS	Creation date		
	Approval Pro		
	Bon de Com Project Tean		
STC in charge: NA7	rioject rean	II <b>.</b>	
o. o ondigo. i v. u	Rapporteur: Hiolle		
Title:			
Functional specification of the interface of a UPT IC-card and PSTN, ISDN, GSM terminals (one pass and multiple pass authentication).			
Scope:			
The specification is to describe the mechanical, electrical and logical interface between card and the mentioned terminals. This includes the specification of card data and operations as well as of the necessary terminal functions for the communication between card and terminals.			
<b>Keywords:</b> UPT, IC-card, PSTN, ISDN, GSM, multiple pass			
Reference Documents:			
Remarks:			
Nomarks.			
The work will be based on existing specifications of SMG, RES, TE9 and NA7 (DE/NA-72501), terminals specific aspects have to be regarded.			
	Dates		
Milestones	Original	(Achieved)	
Start of work	3/94		
Table of Contents and Scope Available	6/94		
Stable draft Ready	4/95		
STC Approval TC Approval	6/95 8/95		
Draft received by ETSI secretariat	9/95		
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# **ETSI Work Programme (New Work Item)**

	Work Item Reference: DTR/NA-72504	
Deliverable type: ETS	Creation d Approval F Bon de Co Project Te	Procedure: ommande:
STC in charge: NA7	Rapporteur: Hiolle	
Title:		
CTS for DE/NA-72503		
Scope:		
Keywords: UPT, IC-card, DSTN, ISDN, GSM, multiple path		
Reference Documents:		
Remarks:		
	Dates	
Milestones	Original	(Achieved)
Start of work	4/95	
Table of Contents and Scope Available	4/95	
Stable draft Ready	8/95 9/95	
STC Approval TC Approval	11/95	
Draft received by ETSI secretariat	12/95	

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# History

Document history		
October 1994	First Edition	
February 1997	Converted into Adobe Acrobat Portable Document Format (PDF)	