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**Network Aspects (NA);
ETSI work programme for UPT
(Phase 1 UPT Service)**

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

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Foreword

Work on Universal Personal Telecommunications (UPT) in ETSI was launched by the Technical Assembly in March 1990, when TC NA was requested to set up a Task Group for UPT. This group got the mandate to elaborate a study, which - in general terms - should describe the necessary work towards a standardised UPT Service, analyse the activities in the area of UPT already going on in various groups and propose a procedure for standardising UPT in ETSI. The results of the study had been reported to and approved by TA9 in March 1991. Following the proposals made in the report, a regular STC was established for UPT (STC NA7), with the mandate to co-ordinate the work on UPT in ETSI, to assist relevant STCs in their standardisation work by providing concepts and requirements and to develop those standards which are not covered by mandates elsewhere in ETSI.

In the framework of its co-ordination activities STC NA7 herewith submits as a TCR-TR the list of deliverables needed for the standardisation of an introductory step of UPT (Phase 1 UPT Service). This list is meant to be part of the ETSI Work programme.

1 Approach to the standardisation of UPT

UPT is a complex concept, where a great variety of features can be foreseen and where interworking of different networks is an important issue. Thus, to standardise UPT in all aspects would take a long time. However, standards are urgently needed very soon, since UPT-like features already are going to be introduced (e.g. *universal number*, *card calling*), so that there is a danger that non-standardised solutions will establish. Therefore, the standardisation of UPT is proposed to be approached in phases, orientated at a reasonable evolution of network capabilities and at the developing user needs. A perspective of a phased standardisation 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, full 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

The present TCR-TR is related to the Phase 1 of the UPT Service; the TCR-TRs for the other phases of UPT will follow in due time.

2 ETSI Work Programme for UPT Phase 1 Service, explanatory notes

The UPT Work Programme Phase 1 is presented in the Annex. Some explanatory notes are provided:

The structure of the Work Programme is shown in the figure below.

<p>General description of UPT</p> <p>Deliverable Type: ETR</p> <p>Delivered by: STC NA7</p>
<p>Guidelines for Phase 1 UPT</p> <p>Deliverable Type: TC-TR</p> <p>Delivered by: STC NA7</p>
<p>Supporting material for Phase 1 UPT</p> <p>Deliverable Type: TC-TR</p> <p>Standards for Phase 1 UPT</p> <p>Deliverable Type: ETS</p> <p>Delivered by: STC NA7</p>
<p>Supporting material for Phase 1 UPT</p> <p>Deliverable Type: TC-TR</p> <p>Standards for Phase 1 UPT</p> <p>Deliverable Type: ETS</p> <p>Delivered by: STCs other than STC NA7</p>

The *General Description* of UPT is independent of any phasing of UPT. The respective deliverables NA-70101 through NA-70401 shall provide an overall concept for UPT in a long term perspective, which will be used as a guideline for the consistent definition of the various phases of UPT.

All other deliverables are related to the Phase 1 UPT Service:

Guidelines (deliverables NA-71101 and NA-71102) provide an overview of what shall be included in Phase 1, seen from the service as well as from the network point of view.

Most of the work of STC NA7 related to Phase 1 shall be devoted to create material to support other STCs in performing their standardisation work on UPT: technical specifications, requirements, scenarios (NA-71202 through NA-71305, NA 71402 and NA 71501). In Phase 1 only one standard is foreseen to be developed in STC NA7: NA-71401 on security.

Other STCs will contribute to the Standardisation of the UPT Service Phase 1 with supporting material and standards as indicated. It can be noted that in Phase 1 the amount of standards is still very low.

Regarding security, there might be a request to the ETSI SAGE for a security algorithm. However, at the time being it cannot be decided, whether an algorithm will be needed in Phase 1. If so, the requirements for the algorithm will be given by STC NA7 in NA-71402.

Annex A: ETSI work programme for UPT (February 1992)

ETSI Work Programme for UPT (February 1992)

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Deliverables of STC NA7

Int. Ref. Nr.	Type	Title	Status	STC planned approval date	Rapporteur
NA 701	UPT, GENERAL		active		
DTR/NA-70102	ETR	UPT Principles and Objectives		02/92	Hansen
DTR/NA-70103	TCR-TR	UPT Vocabulary		02/92	Forbes
NA 702	UPT, SERVICE ASPECTS		active		
DTR/NA-70201	ETR	UPT, General service description		02/92	Hansen
DTR/NA-70202	ETR	UPT, Service aspects of charging, billing and accounting		02/92	Fura
DTR/NA-70203	ETR	UPT, Service requirements on security mechanisms		02/92	Dang
DTR/NA-70204	ETR	UPT, Types of UPT terminals and access devices		02/92	Ennis
DTR/NA-70205	ETR	UPT, Subscriptions and service profiles		02/92	Ciancetta
DTR/NA-70206	ETR	UPT, User procedures and user states		02/92	Lycksell
DTR/NA-70207	ETR	UPT, Man-machine interface aspects		04/92	Rushton
DTR/NA-70208	ETR	UPT, Service requirements on numbering, addressing and identification		02/92	Forbes
DTR/NA-70210	ETR	UPT, UPT Supplementary services		02/92	Di Stefano

ETSI Work-Programme for UPT

Deliverables of STC NA7

Int. Ref. Nr.	Type	Title	Status	STC planned approval date	Rapporteur
NA 703 UPT, NETWORK ASPECTS			active		
DTR/NA-70301	ETR	UPT, Requirements on information-flows and protocols		11/92	Thieffry/ Minhas
DTR/NA-70302	ETR	UPT, Network requirements on dialling, routing and numbering		06/92	Ranta
DTR/NA-70303	ETR	UPT, Architecture and requirements for network interworking		11/92	Vernhes
DTR/NA-70304	ETR	UPT, Requirements on feature interaction and network functionalities		06/92	Vandenameele
DTR/NA-70305	ETR	UPT, Requirements on charging, billing and accounting		06/92	Gatti
DTR/NA-70306	ETR	UPT, Managements aspects			vacant
NA 704 UPT, SECURITY			active		
DTR/NA-70401	ETR	General UPT security architecture		12/92	Heberle
NA 705 UPT, TERMINAL ASPECTS			waiting		
NA 706 UPT, CONFORMANCE TESTING			waiting		

Deliverables of STC NA7

Int. Ref. Nr.	Type	Title	Status	STC planned approval date	Rapporteur
NA 710		UPT SERVICE PHASE1, STANDARDIZATIONS MANAGEMENT	active		
DTR/NA-71001	TCRTR	ETSI Work Programme for a UPT Service Phase 1		09/91	Arndt
NA 711		UPT SERVICE PHASE 1, GUIDELINES	active		
DTR/NA-71101	TCTR	UPT Phase 1, Service Aspects, Guidelines		06/92	Hansen
DTR/NA-71102	TCTR	UPT Phase 1, Network Aspects, Guidelines		06/92	Minhas
NA 712		UPT SERVICE PHASE 1, SERVICE DESCRIPTION	active		
DTR/NA-71202	TCTR	UPT Phase 1, Service aspects of charging, billing and accounting		06/92	Fura
DTR/NA-71203	TCTR	UPT Phase 1, Service requirements on security mechanisms		06/92	Dang
DTR/NA-71205	TCTR	UPT Phase 1, Subscriptions and service profiles		06/92	Ciancetta
DTR/NA-71206	TCTR	UPT Phase 1, User procedures and user states		06/92	Lycksell
DTR/NA-71207	TCTR	UPT Phase 1, Man-machine interface aspects		06/92	Rushton
DTR/NA-71208	TCTR	UPT Phase 1, Service aspects on numbering, addressing and identification		06/92	Forbes
DTR/NA-71210	TCTR	UPT Phase 1, UPT-related supplementary services *)		06/92	DiStefano

*) Whether necessary for Phase 1 has to be decided at a later stage.

ETSI Workprogramme for UPT

Deliverables of STC NA7

Int. Ref. Nr.	Type	Title	Status	STC planned approval date	Rapporteur
NA 713 UPT SERVICE PHASE 1, NETWORK ASPECTS			active		
DTR/NA-71301	TCTR	UPT Phase 1, Information flows and requirements on protocols		11/92	Thieffry
DTR/NA-71302	TCTR	UPT Phase 1, Network requirements on dialling, routing and numbering		12/92	Ranta
DTR/NA-71303	TCTR	UPT Phase 1, Architecture and network interworking		12/92	Vernhes
DTR/NA-71304	TCTR	UPT Phase 1, Network functionalities for feature interaction		12/92	Vandenameele
DTR/NA-71305	TCTR	UPT Phase 1, Network functionalities for charging, billing and accounting		12/92	Gatti
NA 714 UPT SERVICE PHASE 1, SECURITY			active		
DE/NA-71401	ETS	UPT Phase 1, Realization of a security architecture		03/93	Heberle
DTR/NA-71402	TCTR	UPT Phase 1, Security algorithms requirements specification *)		09/92	Heberle
NA 715 UPT SERVICE PHASE 1, TERMINALS			active		
DTR/NA-71501	TCTR	UPT Phase 1, Functional requirements for DTMF-type access devices		06/92	Ennis
NA 716 UPT SERVICE PHASE 1, CONFORMANCE TESTING			waiting		

*) Whether necessary for Phase 1 has to be decided at a later stage.

Deliverables of STCs other than STC NA7 +)

Int. Ref. Nr.	Type	Title	Status	STC approval date	Rapporteur
DE/NA-10010	ETS	Definition of a UPT Service Phase 1		03/93	DiStefano
DTR/NA-21105	ETR	Numbering and addressing for UPT (UPT Service Phase 1)		03/93	Isaksen
DTR/BT-1007	TCTR	Interworking between PCNs and public networks for mobility		06/92	NN
T/Sxxxx	ETS	Description of a UPT Service Phase 1 (Stage 3)		09/93	NN
DTR/HF-1012	TCTR	Usability evaluation of the UPT Service Phase 1		12/92	Gustafsson

Legend

ETR	provides information being of importance also outside ETSI (e.g. an ETSI position to be made known to other bodies) approved on TC level
TCTR	provides information being of importance within ETSI (e.g. work results to support other groups) approved on TC level
TCRTR	provides information related to the management of studies within ETSI approved on TCC/TA level

ETSI numbering scheme for deliverables as used in TC NA:

[deliverable type]/NA-qxyy

q	number of STC
xx	number of work area within STC
yy	deliverable number within work area

History

Document history	
August 1992	First Edition Approved by TCC 10
March 1996	Converted into Adobe Acrobat Portable Document Format (PDF)