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Cordless Terminal Mobility (CTM); Phase 2+ Feature Package 1 (FP1); Circuit-switched data; Service description

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Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Services and Protocols for Advanced Networks (SPAN).

National transposition dates	
Date of adoption of this EN:	28 April 2000
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1 Scope

The present document defines the stage 1 service description for Feature Package 1 - Circuit Switched Data (CSD) of the Cordless Terminal Mobility (CTM) service. Stage 1 is an overall service description, primarily from the service subscriber's and user's point of view, but does not deal with the details of the human interface itself. The present document includes information applicable to network operators and terminal, switch and database manufacturers.

Feature Packages are offered in addition to the standard Cordless Terminal Mobility (CTM) Phase 2 service. However, for Feature Package 1 it is not necessary for the user to subscribe to the telephony service if he only requires data service applications.

The present document contains the core service features and attributes for CTM CSD.

Additional functionalities not documented in the present document may be implemented. The requirements of which are considered outside of the scope of the present document and consequently outside the scope of the corresponding stage 2 and stage 3 standards. Such additional functionality may be on a network-wide basis, or particular to one CTM user or a group of CTM users. Such additional functionality does not compromise conformance to the core requirements of the service.

Charging principles are outside the scope of the present document, unless specific service requirements are stated. These requirements deal with the allocation of certain call charges to particular CTM users.

Interactions with services and ISDN supplementary services not listed in clauses 8 and 9 are outside the scope of the present document.

The CTM service allows users of cordless terminals to be mobile within and between networks. Where radio coverage is provided and the cordless terminal has appropriate access rights, the CTM user is able to make calls from, and to receive calls at, any location within the fixed public and/or private networks, and may move without interruption of a call in progress. The CTM CSD service allows CTM users having a valid subscription to have access to CTM CSD services if CSD service is offered in the serving network.

CTM CSD service is applicable to the 64 kbit/s and 32 kbit/s Unrestricted Digital Information (UDI) bearer services.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.
- A non-specific reference to an ETS shall also be taken to refer to later versions published as an EN with the same number.

[1] ETSI ETS 300 345 (1995): "Integrated Services Digital Network (ISDN); Interworking between public ISDNs and private ISDNs for the provision of telecommunication services; General aspects".

[2] ITU-T Recommendation E.164: (1997): "The international public telecommunication numbering plan".

[3] ETSI ETS 300 824: "Digital Enhanced Cordless Telecommunications (DECT); Cordless Terminal Mobility (CTM); CTM Access Profile (CAP)".

[4] ETSI EN 301 273: "Cordless Terminal Mobility (CTM); Phase 2; Service description".

[5] ITU-T Recommendation V.25 ter: "Serial asynchronous automatic dialling and control".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in CTM Phase 2, and the following apply.

datacall: call requesting an end to end data connection

3.2 Abbreviations

For the purposes of the present document, the following abbreviations apply:

CSD	Circuit Switched Data
CTM	Cordless Terminal Mobility
PISN	Private Integrated Services Network

4 Description

The Circuit Switched Data (CSD) service is Feature Package 1 offered in addition to the Cordless Terminal Mobility (CTM) Phase 2 service.

However, for Feature Package 1 it is not necessary for the user to subscribe to the telephony service if he only requires data service applications.

The CTM CSD is a bearer service.

The CTM CSD service allows users of cordless data terminals to be mobile within and between networks where CTM CSD is provided and the cordless terminal has appropriate access rights. The CTM CSD user can make data calls from, and receive data calls at, any location where radio coverage is provided and may move without interruption of a call in progress.

The CTM CSD service can be composed of "core service features". The core service features provide a basic service, available to all CTM CSD users. In addition to the CTM core features, the CSD service is described using service attributes.

The availability of CTM CSD service to roaming CTM CSD users depends on the provision of the CTM CSD service.

4.1 Core service features

All CTM Phase 2 core features are applicable to the CTM CSD service unless explicitly stated in the present document.

The core service features are listed hereafter.

4.1.1 Numbering

The CTM number may be a non-geographical number or a geographical number according to the operator's choice.

It may therefore be possible for a user subscribing to the CTM service to keep its existing ITU-T Recommendation E.164 [2] number as a network option.

When a user subscribes to the CTM service using its existing ITU-T Recommendation E.164 [2] number as the CTM number, calls to the served user's ITU-T Recommendation E.164 [2] number may be routed either to the served user's cordless terminal or to the served user's fixed terminal according to the operator's choice.

4.1.2 Outgoing call

This service feature enables a CTM CSD user to originate calls from the cordless terminal irrespective of its location in the coverage area.

The network may verify that the CTM CSD user is permitted to place the call as requested.

4.1.3 Incoming call

This service feature enables a CTM CSD user to have incoming calls delivered to the cordless terminal irrespective of its location in the coverage area. The CTM CSD user holds a CTM number that has to be used to reach the cordless terminal associated to this CTM number, wherever it is located, within the coverage area.

If the network is unable to complete an incoming call, the network shall send an appropriate notification to the calling user.

4.1.4 Roaming

This service feature enables a CTM CSD user without a call in progress to move within the coverage area. Therefore, the network shall enable the roaming CTM CSD user to register its current location. The deregistration of the CTM CSD user's previous location shall also be performed. The extent to which roaming is permitted may depend on the CTM CSD user's subscription.

As an option, CTM CSD user roaming may be provided to and from the CTM CSD user's own residential area.

As a network operator/service provider option a CTM CSD user may roam to and from another CTM CSD user's residential area with that user's agreement.

NOTE 1: Roaming within and between networks supporting CTM requires that all networks maintain access rights information relating to each service provider with whom a roaming agreement exists.

NOTE 2: In the user's own residential area it is a network operator/service provider option to provide alternative or additional (supplementary) services to CTM. These services are outside the scope of the present document.

4.1.5 Handover

Handover for CTM CSD is for further study.

4.1.6 Security

This service feature enables the CTM CSD user (and the network) to be protected from different types of misuse due to the CTM service. Different type of security mechanisms may be used to protect from:

- fraudulent use;
- fraudulent access;
- eavesdropping;
- malicious behaviour.

Access network security mechanisms shall be provided by using terminal authentication, network authentication and encryption subject to the limitations of the appropriate cordless access standard.

Different service providers may offer different levels of security mechanisms to its subscribers.