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Prizemni snopovni radio (TETRA) - Govor in podatki (V+D) - 10. del: Dopolnilne storitve stopnje 1 - 12. poglavje: Zadržanje klica

Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 10: Supplementary services stage 1; Sub-part 12: Call hold

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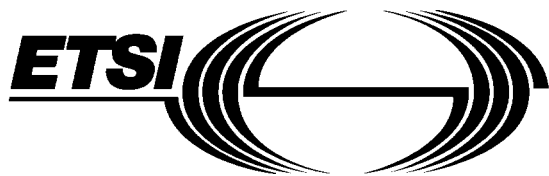
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Part 10-12: Call hold**

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Foreword

This European Telecommunication Standard (ETS) has been produced by the Radio Equipment and Systems (RES) Technical Committee of the European Telecommunications Standards Institute (ETSI).

This ETS is a multi-part standard and will consist of the following parts:

- Part 1: "General network design".
- Part 2: "Air Interface (AI)".
- Part 3: "Inter-working", (DE/RES-06001-3).
- Part 4: "Gateways", (DE/RES-06001-4).
- Part 5: "Terminal equipment interface", (DE/RES-06001-5).
- Part 6: "Line connected stations", (DE/RES-06001-6).
- Part 7: "Security".
- Part 8: "Management services", (DE/RES-06001-8).
- Part 9: "Performance objectives", (DE/RES-06001-9).
- Part 10: "Supplementary services stage 1".**
- Part 11: "Supplementary services stage 2", (DE/RES-06001-11).
- Part 12: "Supplementary services stage 3", (DE/RES-06001-12).
- Part 13: "SDL Model of the Air Interface", (DE/RES-06001-13).
- Part 14: "PICS Proforma", (DE/RES-06001-14).
- Part 15: "Inter-working - Extended Operations", (DE/RES-06001-15).
- Part 16: "Gateways for Supplementary Services", (DE/RES-06001-16).

| Transposition dates | |
|---|-----------------|
| Date of adoption of this ETS: | 1 March 1996 |
| Date of latest announcement of this ETS (doa): | 31 July 1996 |
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1 Scope

This European Telecommunication Standard (ETS) defines the stage 1 specifications of the call hold (HOLD) supplementary service for the Trans-European Trunked RAdio (TETRA) as provided by European operators. Stage 1 is an overall service description from the users point of view but does not deal with the details of the human interface itself.

This ETS specifies the service description of the supplementary service and the procedures to be expected with successful and unsuccessful outcomes. In addition the ETS specifies the interactions with other TETRA supplementary services and inter-working considerations.

Charging principles are outside the scope of this ETS.

The HOLD supplementary service enables a user to interrupt communications on an existing call and then subsequently, if desired, re-establish communications.

2 Normative references

This ETS incorporates, by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this ETS only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

- [1] CCITT Recommendation I.130 (1988): "Method for the characterization of telecommunication services supported by an ISDN and network capabilities of an ISDN".
- [2] ITU-T Recommendation Z.100 (1993): "Specification and Description Language (SDL)".

3 Definitions and abbreviations

- 3.1 **Definitions** <https://standards.iteh.ai/catalog/standards/sist/6581b353-c1ea-4fec-9706-79ef98b7e60e/sist-ets-300-392-10-12-1999>

For the purposes of this ETS, the following definitions apply:

bearer service: A type of telecommunication service that provides the capability for the transmission of signals between user-network interfaces.

served user: The user who places a call on hold. The served user may be either the calling user or the called user.

Supplementary Service (SS): A supplementary service modifies or supplements a bearer service or a teleservice. A supplementary service cannot be offered to a customer as a stand alone service. It should be offered in combination with a bearer service or a teleservice.

Switching And Management Infrastructure (SwMI): All of the TETRA equipment for a Voice plus Data (V+D) network except for subscriber terminals. The SwMI enables subscriber terminals to communicate with each other via the SwMI.

teleservice: A type of telecommunications service that provides the complete capability, including terminal equipment functions, for communication between users according to agreed protocols.

user B: The user placed on hold.

3.2 Abbreviations

3.2.1 General abbreviations

For the purposes of this ETS, the following general abbreviations apply:

| | |
|------|---|
| GTSI | Group TETRA Subscriber Identity |
| ISDN | Integrated Services Digital Network |
| ITSI | Individual TETRA Subscriber Identity |
| SDL | (Functional) Specification and Description Language |
| SS | Supplementary Service |

NOTE: The abbreviation SS is only used when referring to a specific supplementary service.

| | |
|-------|---|
| SwMI | Switching and Management Infrastructure |
| TETRA | Trans-European Trunked RAdio |

3.2.2 Supplementary service abbreviations

For the purposes of this ETS, the following Supplementary Service abbreviations apply:

| | |
|------|--------------------|
| AL | Ambience Listening |
| DL | Discreet Listening |
| HOLD | Call Hold |

4 SS-HOLD stage 1 specification

4.1 Description **iTeh STANDARD PREVIEW**

4.1.1 General description **(standards.iteh.ai)**

The served user shall be able to put individual calls on Call Hold (HOLD). Additionally the served user shall be able to put multipoint calls on HOLD if he is the call owner.

The maximum number of calls on hold at any one time shall be an operator option. The served user shall be informed at the stage when the maximum number of calls on hold has been reached.

4.1.1.1 Individual call

When the HOLD supplementary service is invoked, communication for the served user shall be interrupted and the resource on the served users side shall be released from use by the existing call. The resource of user B may be released from use depending on network implementation.

If the served user has more than one call on hold, he/she shall be able to switch from one call to another call as required, privacy being provided between the calls. The served user shall also be able to disconnect the active party, with the other parties still held, and shall be able to disconnect one of the held parties whilst communicating with an active party.

After HOLD invocation, the served user shall be free to send a request to the network in order to, for example:

- retrieve that call from hold;
- originate a new call;
- retrieve another call which is on hold;
- establish connection to an incoming call, e.g. a waiting call;
- invoke another supplementary service;
- interrogate the network.

4.1.1.2 Multipoint call

When the HOLD supplementary service is invoked, communication for the served user shall be interrupted and the air interface resource shall be released from use for the served user, if it is not required by other members of the multipoint call.

If the served user has more than one call on hold, he shall be able to switch from one call to another call as required, privacy being provided between the calls. The served user, who is the multipoint call owner, shall be able to disconnect the ongoing multipoint call, with the other calls still held, or he shall be able to disconnect one of the held calls whilst communicating with an ongoing multipoint call.

After HOLD invocation, the served user shall now be free to send a request to the network in order to:

- retrieve that call from hold;
- originate a new call;
- retrieve another call which is on hold;
- establish connection to an incoming call, e.g. a waiting call;
- invoke another supplementary service;
- interrogate the network.

4.1.2 Qualifications on applicability to telecommunication services

This supplementary service shall be applicable to all TETRA circuit mode teleservices and bearer services.

4.2 Procedures**4.2.1 Provision/Withdrawal**

Provision of SS-HOLD shall be by pre-arrangement with the service provider or shall be generally available.

The provision of the service shall be on a per TETRA ITSI basis.

The supplementary service shall be withdrawn by the service provider at the request of the served user or for administrative purposes.

4.2.2 Normal procedures**4.2.2.1 Activation/Deactivation, Definition, Registration, Cancellation, Interrogation****4.2.2.1.1 Activation/Deactivation**

The service shall be activated upon provision and deactivated upon withdrawal.

4.2.2.1.2 Definition

Not applicable.

4.2.2.1.3 Registration

Not applicable.

4.2.2.1.4 Cancellation

Not applicable.