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European digital cellular telecommunications system (Phase 2); Line identification supplementary services; Stage 2 (GSM 03.81)

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ICS:

33.070.50	Globalni sistem za mobilno telekomunikacijo (GSM)	Global System for Mobile Communication (GSM)

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European digital cellular communications system (Phase 2); Line identification supplementary services - Stage 2 (GSM 03.81)

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Foreword

This European Telecommunication Standard (ETS) has been produced by the Special Mobile Group (SMG) Technical Committee (TC) of the European Telecommunications Standards Institute (ETSI).

This ETS defines the stage 2 of the line identification supplementary services for the European digital cellular telecommunications system (Phase 2).

This ETS corresponds to GSM Technical Specification (GSM-TS) GSM 03.81 version 4.5.1.

The specification from which this ETS has been derived was originally based on CEPT documentation, hence the presentation of this ETS may not be entirely in accordance with the ETSI/PNE rules.

Reference is made within this ETS to GSM-TSs (NOTE).

NOTE: TC-SMG has produced documents which give the technical specifications for the implementation of the European digital cellular telecommunications system. Historically, these documents have been identified as GSM Technical Specifications (GSM-TSs). These TSs may have subsequently become I-ETSs (Phase 1), or ETSs (Phase 2), whilst others may become ETSI Technical Reports (ETRs). GSM-TSs are, for editorial reasons, still referred to in current GSM ETSs.

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0 General

0.1 Scope

This specification gives the stage 2 description of the call identification supplementary services

The group line identification supplementary services are divided into the following four supplementary services:

- Calling line identification presentation CLIP (section 1);
- Calling line identification restriction CLIR (section 2);
- Connected line identification presentation COLP (section 3);
- Connected line identification restriction COLR (section 4).

0.2 Normative references

This ETS incorporates by dated and 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] GSM 01.04 (ETR 100): "European digital cellular telecommunications system (Phase 2); Abbreviations and acronyms".

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[2] GSM 03.11 (ETS 300 529): "European digital cellular telecommunications system (Phase 2); Technical realization of supplementary services".

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0.3 Definitions and abbreviations

Abbreviations used in this specification are listed in GSM 01.04.

0.3.1 Definition of line identity

The line identity is made up of the following information units:

- The subscriber's international ISDN/MSISDN number;
- Optionally subaddress information.

For mobile originated calls, the ISDN/MSISDN shall always be provided within the network. The subaddress shall only be included if it is provided by the user (or user equipment).

The calling line identity is the line identity of the calling party. The connected line identity is the line identity of the connected party.

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0.3.2 Definition of presentation and screening indicators

In addition to, or instead of, the line identity, the network may send a presentation indicator (PI) and/or a screening indicator (SI) to the MS as follows:

- Presentation Indicator:
  a) Presentation allowed;
  b) Presentation restricted;
  c) Number not available.

- Screening indicator:
  a) User provided, verified and passed;
  b) User provided, not screened;
  c) network provided.

Note that although the MSISDN is always network provided within a PLMN, other values of screening indicator may be received from other networks. The screening indicator only applies to the ISDN/MSISDN.

1 Calling line identification presentation (CLIP)

1.1 Handling of calling line identification presentation

1.1.1 Interrogation

Status check

The mobile subscriber can request the status of the supplementary service and be informed if the service is provided to him/her. This procedure is illustrated in figure 1.1.

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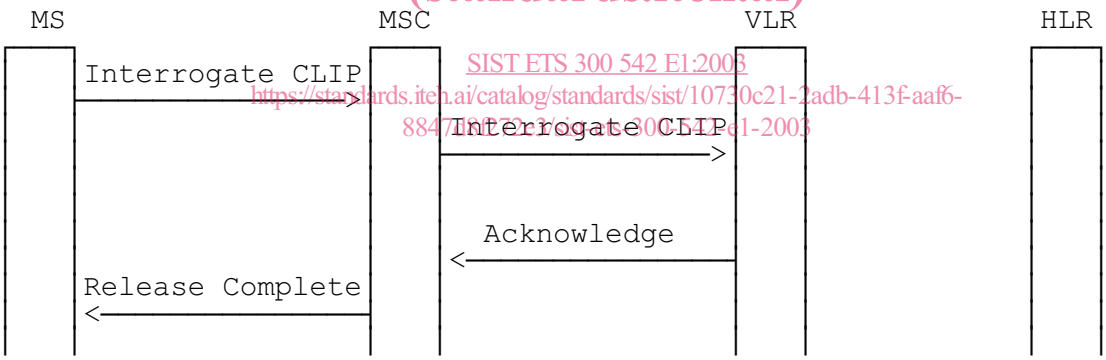

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Figure 1.1: Interrogation of calling line identification presentation

1.2 Functions and information flows

The following Mobile Additional Functions have been identified for the PLMN:

MAF001
Determination of the calling line identification presentation subscription
The ability of a PLMN component to determine whether the supplementary service is provisioned for the mobile subscriber. See figure 1.2.
Location: VLR.

MAF002
Determination of the calling party number for offering to the called party
The ability of a PLMN component to determine and to forward the calling line identity and related indications to the called party. See figure 1.3.
Location: destination MSC.

The information flow is shown in figure 1.4.

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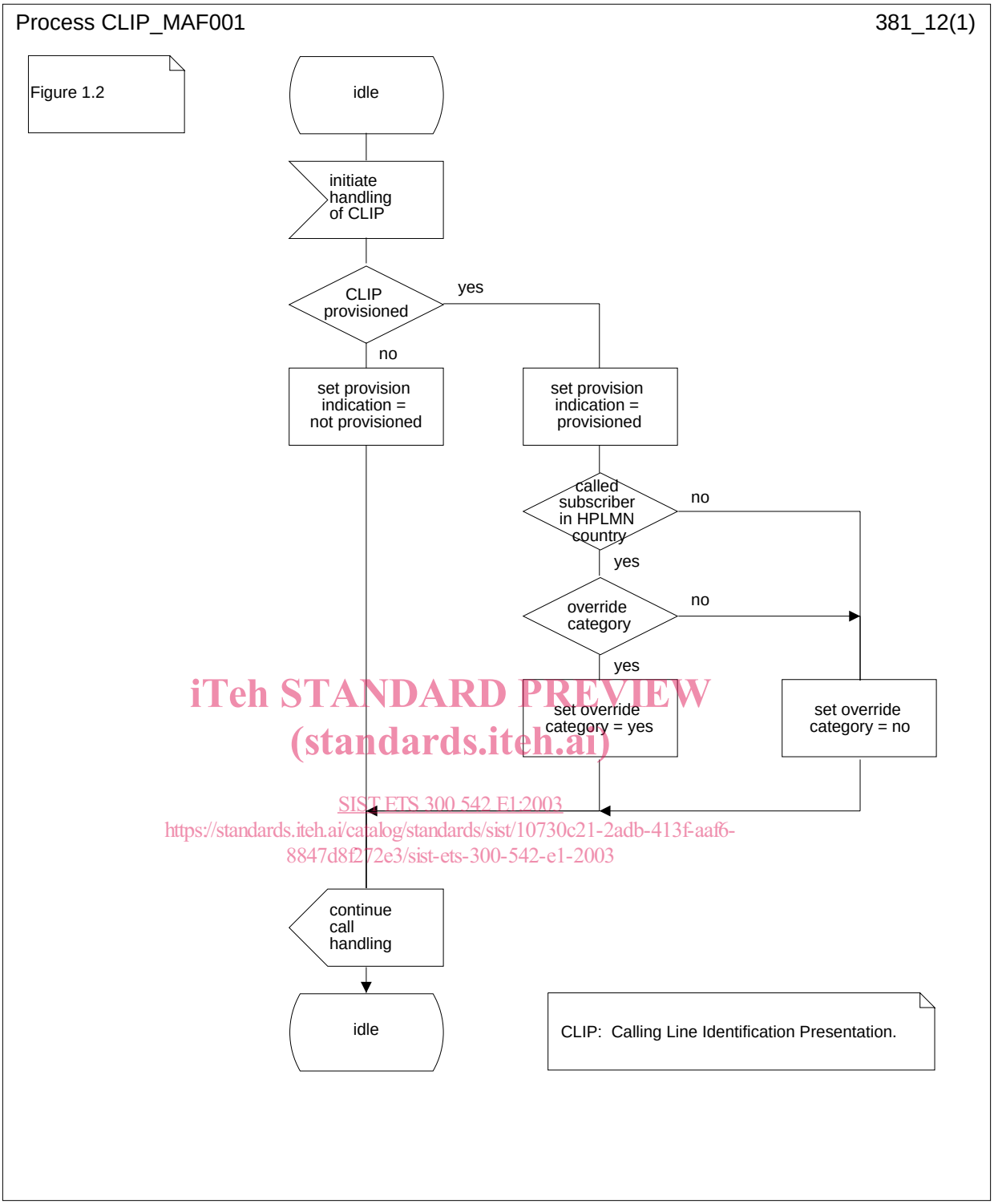

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Figure 1.2: MAF001 Determination of calling line identification presentation subscription (VLR)

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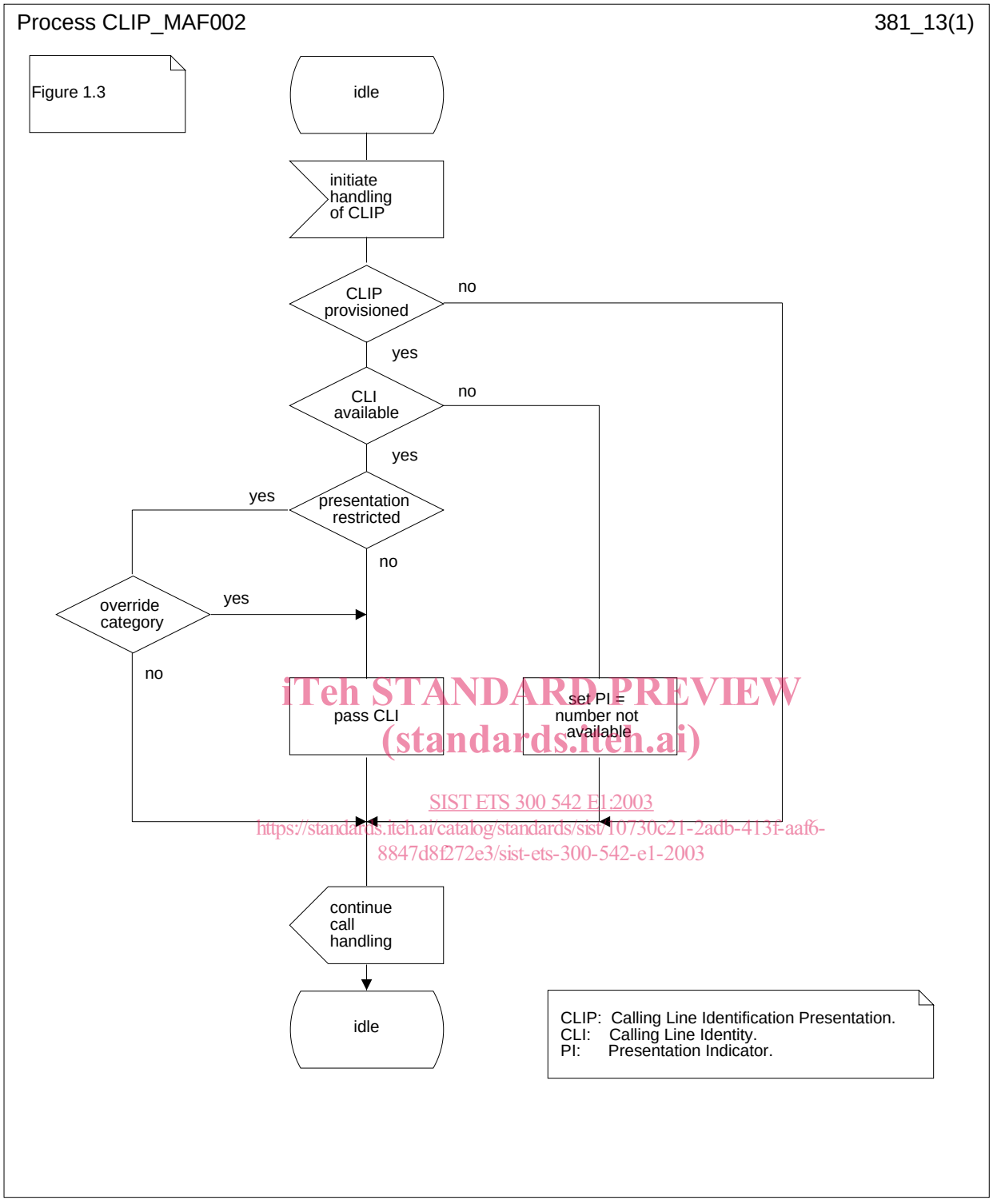

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Figure 1.3: MAF002 Determination of the information for offering to the called party (destination MSC)