



**SLOVENSKI STANDARD**  
**SIST ETS 300 935 E1:2003**  
**01-december-2003**

---

8 [[ [HJb]`W] b]`h`Y\_ca i b]\_UW`g\_]`g]ghYa `E`8 cdc`b]`bUgfcf]Hj] . `cVj Ygh]`c`c`Wb]  
f5 C7L`E`Ghdb`U&f} GA `\$' ", \* žfUn] ]WU) '\$`%L

Digital cellular telecommunications system; Advice of Charge (AoC) supplementary services; Stage 2 (GSM 03.86 version 5.0.1)

**iteh STANDARD PREVIEW**  
**(standards.iteh.ai)**

Ta slovenski standard je istoveten z: **ETS 300 935 Edition 1**  
<https://standards.iteh.ai/catalog/standards/sist/84f779a6-0c0f-4199-9d5b-48ea7d247d70/sist-ets-300-935-e1-2003>

**ICS:**

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

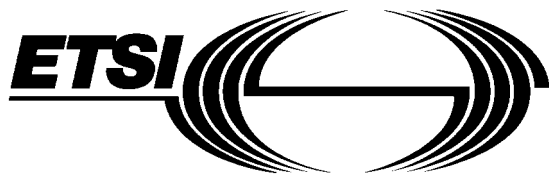
**SIST ETS 300 935 E1:2003**

**en**

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

SIST ETS 300 935 E1:2003

<https://standards.iteh.ai/catalog/standards/sist/84f779a6-0c0f-4199-9d5b-48ea7d247d70/sist-ets-300-935-e1-2003>



**E**UROPEAN  
**T**ELECOMMUNICATION  
**S**TANDARD

**ETS 300 935**

May 1997

Source: ETSI TC-SMG

Reference: DE/SMG-030386Q

ICS: 33.020

**Key words:** Digital cellular telecommunications system, Global System for Mobile communications (GSM)



**Digital cellular telecommunications system;  
Advice of Charge (AoC) supplementary services - Stage 2  
(GSM 03.86 version 5.0.1)**

**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 4 92 94 42 00 - Fax: +33 4 93 65 47 16

**Copyright Notification:** No part may be reproduced except as authorized by written permission. The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 1997. All rights reserved.

## iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST ETS 300 935 E1:2003

<https://standards.iteh.ai/catalog/standards/sist/84f779a6-0c0f-4199-9d5b-48ea7d247d70/sist-ets-300-935-e1-2003>

## Contents

Foreword .....	5
0 Scope .....	7
0.1 Normative references.....	7
0.2 Abbreviations .....	7
1 Advice of Charge (Information) (AoCI).....	8
1.1 Advice of Charge (Information) MSC SDL diagram.....	8
1.2 Advice of Charge (Information) mobile equipment SDL diagram .....	8
1.3 Advice of Charge (Information) information flow diagram .....	8
1.4 Information stored in the HLR .....	12
1.5 State transition model .....	12
1.6 Transfer of Information from HLR to VLR .....	12
1.7 Information stored in the VLR .....	12
1.8 Handover .....	12
2 Advice of Charge (Charging) (AoCC).....	13
2.1 Advice of Charge (Charging) MSC SDL diagram.....	13
2.2 Advice of Charge (Charging) mobile equipment SDL diagram.....	13
2.3 Advice of Charge (Charging) information flow diagram.....	13
2.4 AoCC subscriber roaming requirements .....	13
2.5 Information stored in the HLR .....	18
2.6 State transition model .....	18
2.7 Transfer of Information from HLR to VLR .....	18
2.8 Information stored in the VLR .....	18
2.9 Handover .....	18
Annex A (normative): Information stored in the MSC.....	19
Annex B (informative): Status of GSM 03.86.....	20
History .....	21

Blank page

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

[SIST ETS 300 935 E1:2003](https://standards.iteh.ai/catalog/standards/sist/84f779a6-0c0f-4199-9d5b-48ea7d247d70/sist-ets-300-935-e1-2003)

<https://standards.iteh.ai/catalog/standards/sist/84f779a6-0c0f-4199-9d5b-48ea7d247d70/sist-ets-300-935-e1-2003>

## 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 Advice of Charge (AoC) supplementary services within the digital cellular telecommunications system.

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 rules.

Transposition dates	
Date of adoption:	18 April 1997
Date of latest announcement of this ETS (doa):	31 August 1997
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	28 February 1998
Date of withdrawal of any conflicting National Standard (dow):	28 February 1998

## iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST ETS 300 935 E1:2003](https://standards.iteh.ai/catalog/standards/sist/84f779a6-0c0f-4199-9d5b-48ea7d247d70/sist-ets-300-935-e1-2003)

<https://standards.iteh.ai/catalog/standards/sist/84f779a6-0c0f-4199-9d5b-48ea7d247d70/sist-ets-300-935-e1-2003>

Blank page

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

SIST ETS 300 935 E1:2003

<https://standards.iteh.ai/catalog/standards/sist/84f779a6-0c0f-4199-9d5b-48ea7d247d70/sist-ets-300-935-e1-2003>



## 0 Scope

This European Telecommunication Standard (ETS) gives the stage 2 description of the Advice of Charge (AoC) supplementary services.

The charging supplementary services currently defined are:

- Advice of Charge (Information) (AoCI) (clause 1);
- Advice of Charge (Charging) (AoCC) (clause 2).

### 0.1 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 350): "Digital cellular telecommunications system (Phase 2+); Abbreviations and acronyms".
- [2] GSM 02.24 (ETS 300 923): "Digital cellular telecommunications system; Description of Charge Advice Information (CAI)".
- [3] GSM 02.86: "Digital cellular telecommunications system; Advice of Charge (AoC) supplementary services - Stage 1".
- [4] GSM 03.11 (ETS 300 928): "Digital cellular telecommunications system; Technical realization of supplementary services".

### 0.2 Abbreviations

[SIST ETS 300 935 E1:2003](https://standards.iteh.ai/catalog/standards/sist/84f779a6-0c0f-4199-9d5b-48ca7d247d70/sist-ets-300-935-e1-2003)

Abbreviations used in this ETS are listed in GSM 01.04.

<https://standards.iteh.ai/catalog/standards/sist/84f779a6-0c0f-4199-9d5b-48ca7d247d70/sist-ets-300-935-e1-2003>

## 1 Advice of Charge (Information) (AoCI)

### 1.1 Advice of Charge (Information) MSC SDL diagram

The SDL diagram for the Advice of Charge (Information) supplementary service within the MSC is given in figure 1.1.

NOTE 1: AoC (Information) is not applicable to emergency calls.

NOTE 2: The request of generation of the Charge Advice Information (CAI) applies to AoC initiation or charge modification.

### 1.2 Advice of Charge (Information) mobile equipment SDL diagram

The SDL diagram for the Advice of Charge (Information) supplementary service within the mobile equipment is given in figure 1.2. This SDL indicates when charging calculations are started, amended and stopped, within the mobile equipment. The mobile equipment should start charging calculations as soon as possible after receiving the charging information. Charging calculations should be amended by the mobile equipment in accordance with GSM 02.24.

NOTE: The point at which the charging calculations are amended can occur before or after sending the AoC Acknowledge.

Charging calculations are stopped when the call ends for any reason.

The reception of the CAI shall be acknowledged only if the MS supports the AoCI functionality specified in GSM 02.24 and GSM 02.86; however, the network does not action this acknowledgement in the AoC (Information) case.

### 1.3 Advice of Charge (Information) information flow diagram

The Advice of Charge (Information) information flow diagrams are shown in figure 1.3.

SIST ETS 300 935 E1:2003  
<https://standards.iteh.ai/catalog/standards/sist/8-41779ab-0c07-4199-9d5b-48ea7d247d70/sist-ets-300-935-e1-2003>

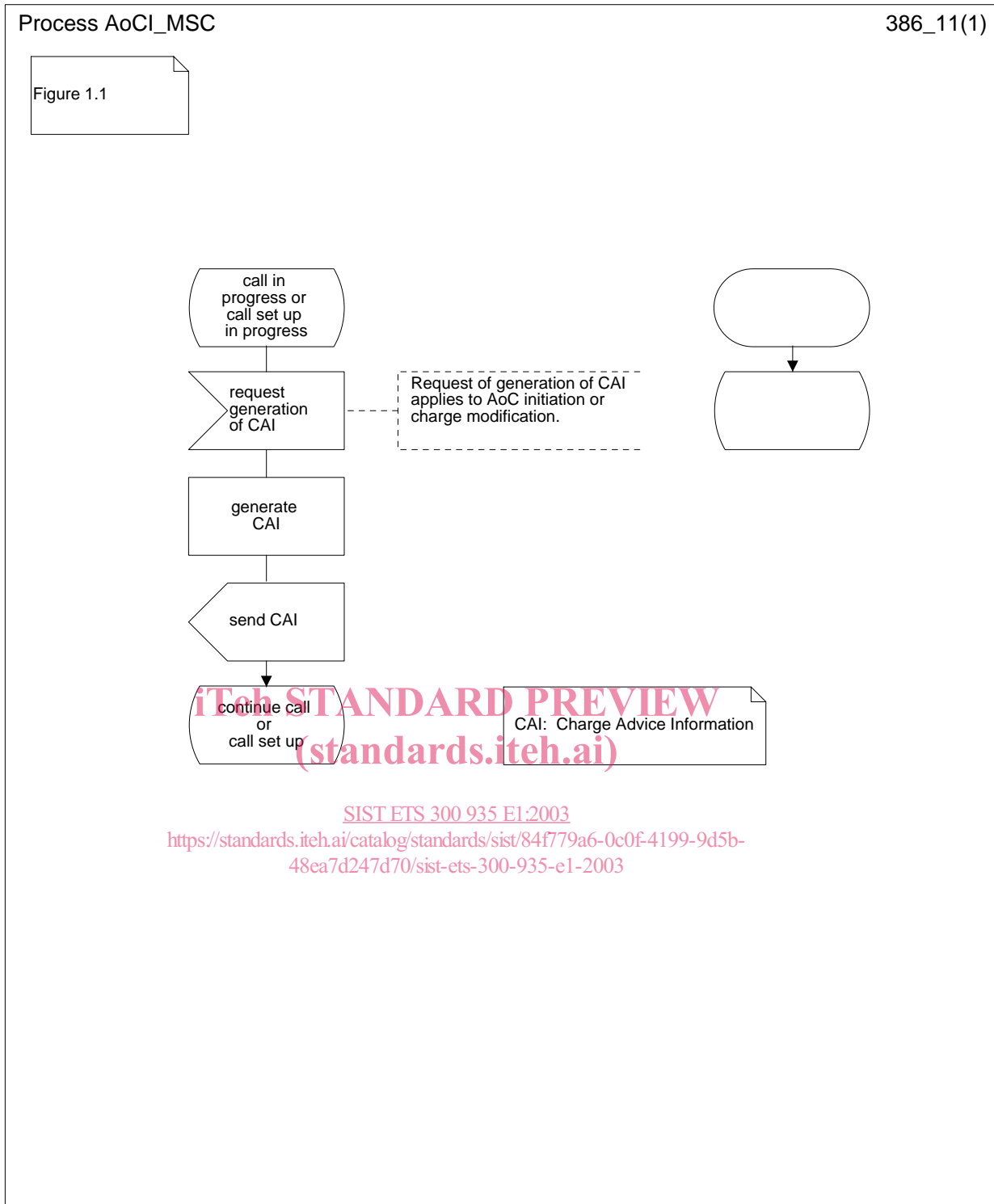


Figure 1.1: SDL diagram of advice of charge (information) in the MSC