

SLOVENSKI STANDARD SIST ETS 300 655:1998

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ASN.1 library definition; Version 1.1

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Foreword

This European Telecommunication Standard (ETS) has been produced by the Signalling Protocols and Switching (SPS) Technical Committee of the European Telecommunications Standards Institute (ETSI).

This ETS was generated using a template provided by TCR-TR 046. The procedures defined there were used to add elements to the library, ensuring that its rules apply to the contents of this ETS.

NOTE: TCR-TR 046 is only available to ETSI members.

An electronic version of the ETSI ASN.1 library is available to all subscribers to the **ETSI Documentation Service** or can also be obtained from the ETSI PEX helpdesk:

ETSI Documentation Service:

Phone: +33 92 94 42 41 Fax: +33 93 95 81 33 email: publication@etsi.fr

PEX helpdesk:

Phone: +33 92 94 43 18 Fax: +33 93 65 38 51 email: pex@etsi.fr

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or endorsement of this ETS (dop/e):

31 December 1997

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1 Scope

This European Telecommunication Standard (ETS) defines the ETSI ASN.1 library. The library has been set up for two reasons:

- capture common application element definitions within ETSI in order to reduce the overall protocol maintenance effort;
- enlarge the reusability of ETSI protocols.

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] CCITT Recommendation X.208 (1988): "Specification of abstract syntax

notation one (ASN.1)" (technically aligned with ISO 8824).

[2] ITU-T Recommendation X.680 (1994): "Information technology - Open System

Interconnection - Abstract Syntax Notation One (ASN.1): Specification of Basic

Notation" (also published as ISO 8824-1).

[3] ETS 300 351 (1994): "ETSI object identifier tree; Rules and registration

procedures".

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3 Definitions and abbreviations

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3.1 Definitions

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For the purposes of this ETS, the following definitions apply: 64a-ee96-4c62-8da0-

6e9b1f6a97c5/sist-ets-300-655-1998

ASN.1 definition: A definition resulting from one of the alternatives for an ASN.1 "Assignment" as defined by ITU-T Recommendation X.680 [2].

Common Application Element (CAE): An ASN.1 type definition or ASN.1 value definition that can or is commonly used in other ASN.1 modules.

ETSI-LIB: The most recent ETS containing the current version of the ASN.1 library, hence this ETS.

LIB-INDEX: The most recent ETR containing the current version of index to the ASN.1 library, hence ETR 210.

Library Maintenance Organization (LMO): An organization maintaining the ASN.1 library and the ASN.1 library Index.

library module: An ASN.1 module containing one or several Common Application Element definitions.

library procedures: A set of procedures that modify the ASN.1 library as well as the ASN.1 library Index in terms of contents and structure.

library rules: A set of rules applicable to the ASN.1 library that preserves the soundness and structure of the library.

validated ASN.1: ASN.1 definitions are valid if they conform with the guidelines defined in ETR 060. For the purpose of this ETS these guidelines are to be considered as binding. Validation is done by the LMO.

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3.2 Abbreviations

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

ASN.1 Abstract Syntax Notation One

4 ETSI library definition

The module "ETSI-Library" is the main module of the library. Every reference from other standards to definitions contained herein shall be made using the ASN.1 import mechanism and the corresponding object identifier value of this main module. No other module of this standard shall be referenced.

NOTE 1: ETS 300 351 [3] describes the structure of the ETSI object identifier tree. The ASN.1 library of ETSI is given a dedicated branch unlike other ETSs which have their ETS number incorporated in the object identifier value. However, the current revision of ETS 300 351 [3] does not reflect the existence of the library.

The ASN.1 definitions contained in this ETS can be automatically extracted from its electronic form. The resulting ASN.1 modules should be used in order to verify any other standard or recommendation with references to this ETS.

An index of users of this standard is found in LIB-INDEX, which lists for every definition contained in this ETS the corresponding standards and recommendations that import this definition. Additionally it lists standards and recommendations that do not import these definitions but rather re-define them themselves.

NOTE 2: In order to achieve its intended use, the index needs to be re-issued whenever a new version of this ETS is created. Furthermore, it has to be re-issued to reflect a changed outside world (e.g. new users).

4.1 ASN.1 module definitions of the library version 1.1

This version of the library is the interface to the standards and recommendations listed in LIB-INDEX, no changes shall be applied to any of the definitions contained herein without agreement of all the users (and possibly re-definers) of this definition.

NOTE:

ASN.1 definitions ending with e.g. "-v2-3" are kept for compatibility purposes from an earlier version of this library, in the above example from version 2.3. Any definition without such a suffix is the most recent one, standards using older versions of the library have the choice to register for both, the original and the most recent one.

4.1.1 Interface module

The ASN.1 source lines are preceded by line-numbers at the left margin in order to enable the usage of the cross-reference in annex B.

```
ETSI-Library {ccitt identified-organization etsi(0) etsi-library(2)
2
3
4
5
6
7
8
9
10
                     asn1-module(0) tcrtr-version1(1) ets-version1(1)}
     DEFINITIONS IMPLICIT TAGS
     BEGIN
     EXPORTS
        etsiPrefix,
11
12
13
         -- from Addressing-Data-Elements
        PresentedAddressScreened.
14
15
16
17
        PresentedAddressUnscreened.
        PresentedNumberScreened,
        PresentedNumberUnscreened.
        Address,
18
19
        PartyNumber,
        PartySubaddress,
20
21
        ScreeningIndicator,
```

```
22
         -- from Basic-Service-Elements
23
24
25
26
27
28
29
30
        BasicService,
        SS-Status,
        SS-Code,
31
         -- from MobileDomainDefinitions
32
33
        mobileDomainId,
        gsm-NetworkId,
34
35
        gsm-AccessId,
        gsm-OperationAndMaintenanceId,
36
37
38
39
        gsm-MessagingId,
        CommonComponentId,
         -- from InDomainDefinitions
40
        inDomainId,
41
        in-NetworkId,
42
         in-UptId,
43
        IN-CommonComponentId
\overline{44}
     ;
45
46
47
     -- BEGIN Addressing-Data-Elements (ETS 300 196-1)
48
49
        PresentedAddressScreened ::=
50
           CHOICE {
51
                                                             [0] AddressScreened,
               presentationAllowedAddress
               presentationRestricted
                                                             [1] NULL,
               numberNotAvailableDueToInterworking
                                                             [2] NULL,
54
               presentationRestrictedAddress
                                                             [3] AddressScreened
55
56
57
            }
        PresentedAddressUnscreened ::=
58
          CHOICE {
               presentationAllowedAddress DARD 01 Address FW presentationRestricted ADARD 11 NULL
59
60
                                                           [2] NULL,
               numberNotAvailableDueToInterworking
61
62
               presentationRestrictedAddress args 131 Address
63
64
65
66
        PresentedNumberScreened ::=
                                             SIST ETS 300 655:1998
           CHOICE {
67
68
69
70
               presentationAllowedNumbercatalog/standards/sist@fdNumbersoneened-8da0-
               presentationRestricted.9b1f6a97c5/sist-ets-30[1]5NULL98
numberNotAvailableDueToInterworking [2] NULL,
presentationRestrictedNumber [3] NumberScreened
               {\tt presentationRestrictedNumber}
            }
        PresentedNumberUnscreened ::=
           CHOICE {
75
76
77
78
79
80
               presentationAllowedNumber
                                                             [0] PartyNumber,
               presentationRestricted
                                                             [1] NULL,
               numberNotAvailableDueToInterworking
                                                             [2] NULL,
               presentationRestrictedNumber
                                                             [3] PartyNumber
            }
81
        AddressScreened ::=
82
            SEQUENCE {
83
               partyNumber
                                                             PartyNumber,
84
                screeningIndicator
                                                             ScreeningIndicator,
85
               partySubaddress
                                                             PartySubaddress OPTIONAL
86
            }
87
88
        NumberScreened ::=
89
90
           SEQUENCE {
               partyNumber
                                                             PartyNumber,
91
               screeningIndicator
                                                             ScreeningIndicator
92
93
94
       Address ::=
95
           SEQUENCE {
96
               partyNumber
                                                             PartyNumber,
                                                             PartySubaddress OPTIONAL
               partySubaddress
```

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```
100
         PartyNumber ::=
101
102
            CHOICE {
              unknownPartyNumber
                                                         [0] NumberDigits,
103
               -- the numbering plan is the default numbering plan of the network.
104
               -- It is recommended that this value is used.
105
              publicPartyNumber
                                                         [1] PublicPartyNumber,
106
                - the numbering plan is according to CCITT Recommendation E.163 and E.164.
107
               dataPartyNumber
                                                         [3] NumberDigits,
108
               telexPartyNumber
                                                         [4] NumberDigits,
109
                                                         [5] PrivatePartyNumber,
               privatePartyNumber
110
               nationalStandardPartyNumber
                                                         [8] NumberDigits
111
112
113
         PublicPartyNumber ::=
114
          SEQUENCE {
             publicTypeOfNumber
115
                                                        PublicTypeOfNumber,
116
117
               publicNumberDigits
                                                         NumberDigits
118
119
         PrivatePartvNumber ::=
120
121
          SEQUENCE {
              privateTypeOfNumber
                                                         PrivateTypeOfNumber,
122
123
               privateNumberDigits
                                                         NumberDigits
124
125
         NumberDigits ::=
126
127
            NumericString (SIZE(1..20))
128
129
         PublicTypeOfNumber ::=
            ENUMERATED
130
131
             unknown (0),
               -- if used number digits carry prefix indicating type of number according
132
               -- to national recommendations
133
               internationalNumber (1),
134
135
              nationalNumber (2),
               networkSpecificNumber (3),
136
              subscriberNumber (4),
              abbreviatedNumber (6).
-- valid only for called party number at the outgoing access, network
137
138
139
               -- substitutes appropriate number.
140
            }
                                          (standards.iteh.ai)
141
142
         PrivateTypeOfNumber ::=
143
            ENUMERATED {
                                                SIST ETS 300 655:1998
144
             unknown (0),
145
               level2RegionalNumberandlinds, itch.ai/catalog/standards/sist/8fd65b4a-ee96-4c62-8da0-
              level1RegionalNumber (2), 6e9b1f6a97c5/sist-ets-300-655-1998
146
147
               pTNSpecificNumber (3),
148
               localNumber (4).
149
               abbreviatedNumber (6)
150
            }
151
152
         PartySubaddress ::=
153
          CHOICE {
154
             userSpecifiedSubaddress
                                                       UserSpecifiedSubaddress,
155
               -- not recommended
156
157
               nsapSubaddress
                                                        NSAPSubaddress
               -- according to CCITT Recommendation X.213
158
159
160
         UserSpecifiedSubaddress ::=
161
162
         SEQUENCE {
               subaddressInformation
                                                         SubaddressInformation,
163
               oddCountIndicator
                                                        BOOLEAN OPTIONAL
164
               -- used when the coding of subaddress is BCD
165
166
167
         NSAPSubaddress ::=
168
           OCTET STRING (SIZE(1..20))
169
            -- specified according to CCITT Recommendation X.213. Some networks may
170
171
            -- limit the subaddress value to some other length, e.g. 4 octets
172
173
         SubaddressInformation ::=
           OCTET STRING (SIZE(1..20))
            -- coded according to user requirements. Some networks may limit the subaddress
            -- value to some other length, e.g. 4 octets
```