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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:

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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".

3 Definitions and abbreviations

3.1 Definitions

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

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.

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.

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



```
100 PartyNumber ::=
101     CHOICE {
102         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         privatePartyNumber            [5] PrivatePartyNumber,
110         nationalStandardPartyNumber   [8] NumberDigits
111     }
112
113 PublicPartyNumber ::=
114     SEQUENCE {
115         publicTypeOfNumber            PublicTypeOfNumber,
116         publicNumberDigits            NumberDigits
117     }
118
119 PrivatePartyNumber ::=
120     SEQUENCE {
121         privateTypeOfNumber           PrivateTypeOfNumber,
122         privateNumberDigits           NumberDigits
123     }
124
125 NumberDigits ::=
126     NumericString (SIZE(1..20))
127
128 PublicTypeOfNumber ::=
129     ENUMERATED {
130         unknown (0),
131         -- if used number digits carry prefix indicating type of number according
132         -- to national recommendations
133         internationalNumber (1),
134         nationalNumber (2),
135         networkSpecificNumber (3),
136         subscriberNumber (4),
137         abbreviatedNumber (6)
138         -- valid only for called party number at the outgoing access, network
139         -- substitutes appropriate number.
140     }
141
142 PrivateTypeOfNumber ::=
143     ENUMERATED {
144         unknown (0),
145         level2RegionalNumber (1),
146         level1RegionalNumber (2),
147         pTNSpecificNumber (3),
148         localNumber (4),
149         abbreviatedNumber (6)
150     }
151
152 PartySubaddress ::=
153     CHOICE {
154         userSpecifiedSubaddress        UserSpecifiedSubaddress,
155         -- not recommended
156         nsapSubaddress                 NSAPSubaddress
157         -- according to CCITT Recommendation X.213
158     }
159
160 UserSpecifiedSubaddress ::=
161     SEQUENCE {
162         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     -- limit the subaddress value to some other length, e.g. 4 octets
171
172 SubaddressInformation ::=
173     OCTET STRING (SIZE(1..20))
174     -- coded according to user requirements. Some networks may limit the subaddress
175     -- value to some other length, e.g. 4 octets
176
```

```

177 ScreeningIndicator ::=
178     ENUMERATED {
179         userProvidedNotScreened (0),
180         -- number was provided by a remote user terminal equipment, and has been
181         -- screened by a network that is not the local public or local private network.
182         userProvidedVerifiedAndPassed (1),
183         -- number was provided by a remote user terminal equipment (or by a remote private
184         -- network), and has been screened by the local public or local private network.
185         -- userProvidedVerifiedAndFailed (2), not used, value reserved
186         networkProvided (3)
187         -- number was provided by local public or local private network
188     }
189
190 -- END Addressing-Data-Elements
191
192
193 -- BEGIN Basic-Service-Elements (ETS 300 196-1)
194
195 BasicService ::=
196     ENUMERATED {
197         allServices (0),
198         speech (1),
199         unrestrictedDigitalInformation (2),
200         audio3k1Hz (3),
201         unrestrictedDigitalInformationWithTonesAndAnnouncements (4),
202         telephony3k1Hz (32),
203         teletex (33),
204         telefaxGroup4Class1 (34),
205         videotexSyntaxBased (35),
206         videotelephony (36),
207         telefaxGroup2-3 (37),
208         telephony7kHz (38)
209         -- basic services for GSM or BroadBand shall be added here
210     }
211
212 -- END Basic-Service-Elements
213
214
215 -- BEGIN
216
217
218
219
220
221 SS-Code ::= CHOICE {
222     allSS                                [0] NULL,
223     lineIdentification                  [1] LineIdentification,
224     callOffering                        [2] CallOfferingOrForwarding,
225     callCompletion                      [3] CallCompletion,
226     multiParty                          [4] MultiParty,
227     communityOfInterest                [5] CommunityOfInterest,
228     charging                            [6] Charging,
229     additionalInfoTransfer              [7] AdditionalInfoTransfer,
230     callRestriction                    [8] CallRestriction,
231     plmnSpecific                        [9] INTEGER (0 .. 15)
232 }
233
234 LineIdentification ::= BIT STRING {
235     callingLineIdentificationPresentation (0),
236     callingLineIdentificationRestriction (1),
237     connectedLineIdentificationPresentation (2),
238     connectedLineIdentificationRestriction (3),
239     maliciousCallIdentification (4)
240 } (SIZE (1..8))
241
242 allLineIdentification LineIdentification ::= '11111111'B
243
244 CallOfferingOrForwarding ::= BIT STRING {
245     -- call offerings
246     callTransfer (0),
247     mobileAccessHunting (1),
248     -- unconditional call forward
249     callForwardingUnconditional (3),
250     -- conditional call forward
251     callForwardingOnSubscriberBusy (5),
252     callForwardingOnNoReply (6),
253     callForwardingOnSubscriberNotReachable (7)
254 } (SIZE (1..8))
255
256 allCallOffering CallOfferingOrForwarding ::= '00000111'B
257
258 allUnconditionalForwarding CallOfferingOrForwarding ::= '00011000'B
259
260 allCondForwarding CallOfferingOrForwarding ::= '11100000'B
261

```

```
262     allCallForwarding CallOfferingOrForwarding ::= '11111000'B
263
264     allCallOfferingAndForwardingSS CallOfferingOrForwarding ::= '11111111'B
265
266     CallCompletion ::= BIT STRING {
267         callWaiting (0),
268         callHold (1),
269         callCompletionOnBusySubscriber (2)
270     } (SIZE (1..8))
271
272     allCallCompletionSS CallCompletion ::= '11111111'B
273
274     MultiParty ::= BIT STRING {
275         multiParty (0)
276     } (SIZE (1..8))
277
278     allMultiPartySS MultiParty ::= '11111111'B
279
280     CommunityOfInterest ::= BIT STRING {
281         closedUserGroup (0)
282     } (SIZE (1..8))
283
284     allCommunityOfInterestSS CommunityOfInterest ::= '11111111'B
285
286     Charging ::= BIT STRING {
287         adviceOfChargeInformation (0),
288         adviceOfChargeCharging (1)
289     } (SIZE (1..8))
290
291     allChargingSS Charging ::= '11111111'B
292
293     AdditionalInfoTransfer ::= BIT STRING {
294         userToUserSignalling (0)
295     } (SIZE (1..8))
296
297     allAdditionalInfoTransferSS AdditionalInfoTransfer ::= '11111111'B
298
299     CallRestriction ::= BIT STRING {
300         barringOfOutgoingCalls (0),
301         barringOfAllOutgoingCalls (1),
302         barringOfOutgoingInternationalCalls (2),
303         barringOfOutgoingInternationalCallsExceptHomePLMN (3),
304         barringOfIncomingCalls (4),
305         barringOfAllIncomingCalls (5),
306         barringOfIncomingCallsWhenRoamingOutsideHomePLMN (6)
307     } (SIZE (1..8))
308
309     allCallRestrictionSS CallRestriction ::= '11111111'B
310
311 -- END
312
313
314 -- BEGIN
315
316     SS-Status ::= BIT STRING {
317         quiescent (3), -- 0 means operative
318         provisioned (2), -- 0 means not provisioned
319         registered (1), -- 0 means not registered
320         active (0) -- 0 means not active
321     } (SIZE (8))
322
323 -- END
324
325
326 -- BEGIN MobileDomainDefinitions (ETR 091)
327
328     mobileDomainId MainTreeDefinition ::= {etsiPrefix mobileDomain(0)}
329
330     -- Mobile Subdomains
331
332     gsm-NetworkId SubTreeDefinition ::= {mobileDomainId gsm-Network(1)}
333     gsm-AccessId SubTreeDefinition ::= {mobileDomainId gsm-Access(2)}
334     gsm-OperationAndMaintenanceId SubTreeDefinition ::=
335         {mobileDomainId gsm-Operation-Maintenance(3)}
336     gsm-MessagingId SubTreeDefinition ::= {mobileDomainId gsm-Messaging(4)}
337
338     -- Common Component Ids for structuring Mobile Subdomains
339
```

```
340     CommonComponentId ::=
341         INTEGER {
342             ac-Id (0),
343             as-Id (1),
344             ase-Id (2),
345             moduleId (3),
346             er-Id (4)
347         } (0..9)
348
349 -- END MobileDomainDefinitions
350
351
352 -- BEGIN InDomainDefinitions (ETR 090)
353
354     inDomainId     MainTreeDefinition ::=      {etsiPrefix inDomain(1)}
355
356     -- IN Subdomains
357
358     in-NetworkId SubTreeDefinition ::=      {inDomainId in-Network(1)}
359     in-UptId SubTreeDefinition      ::=      {inDomainId in-Upt(2)}
360
361     -- Common Component Ids for structuring IN Subdomains
362
363     IN-CommonComponentId ::=
364         INTEGER {
365             moduleId (0),
366             ac-Id (1)
367         } (0..9)
368
369 -- END InDomainDefinitions
370
371
372 -- BEGIN ETSI-LibraryDomain
373
374     etsiPrefix OBJECT IDENTIFIER ::= {ccitt identified-organization etsi(0)}
375
376     MainTreeDefinition ::= OBJECT IDENTIFIER
377
378     SubTreeDefinition ::= OBJECT IDENTIFIER
379
380     etsiLibrary MainTreeDefinition ::= {etsiPrefix etsi-library(2)}
381
382 -- END ETSI-LibraryDomain
383
384 END
```

Annex A (informative): Expanded source of ETSI library

For every (Value)Assignment in the root ASN.1 module all the used defined types and defined values, which are defined within the ASN.1 module or imported from ASN.1 modules, are replaced by the constructs this type or value is composed of.

The fully expanded ASN.1 root module is itself a correct and equivalent representation of the ETSI library.

It allows an overview of all nested definitions.

```
--          Expanded ASN.1 Module 'ETSI-Library'
--SIEMENS ASN.1 Compiler      P2.10 (94-11-02 10:25:17)
--          Date: 95-05-22 Time: 18:29:37

ETSI-Library { 0 4 etsi (0) etsi-library (2) asn1-module (0) tcrtr-version1 (1) ets-version1 (1)
}

DEFINITIONS

 ::=

BEGIN

EXPORTS
  etsiPrefix,
  PresentedAddressScreened,
  PresentedAddressUnscreened,
  PresentedNumberScreened,
  PresentedNumberUnscreened,
  Address,
  PartyNumber,
  PartySubaddress,
  ScreeningIndicator,
  BasicService,
  SS-Status,
  SS-Code,
  mobileDomainId,
  gsm-NetworkId,
  gsm-AccessId,
  gsm-OperationAndMaintenanceId,
  gsm-MessagingId,
  CommonComponentId,
  inDomainId,
  in-NetworkId,
  in-UptId,
  IN-CommonComponentId
;

PresentedAddressScreened ::= CHOICE {
  presentationAllowedAddress [0] IMPLICIT SEQUENCE {
    partyNumber CHOICE {
      unknownPartyNumber [0] IMPLICIT NumericString (SIZE (1..20)),
      publicPartyNumber [1] IMPLICIT SEQUENCE {
        publicTypeOfNumber ENUMERATED {
          unknown (0),
          internationalNumber (1),
          nationalNumber (2),
          networkSpecificNumber (3),
          subscriberNumber (4),
          abbreviatedNumber (6)},
        publicNumberDigits NumericString (SIZE (1..20))},
      dataPartyNumber [3] IMPLICIT NumericString (SIZE (1..20)),
      telexPartyNumber [4] IMPLICIT NumericString (SIZE (1..20)),
      privatePartyNumber [5] IMPLICIT SEQUENCE {
        privateTypeOfNumber ENUMERATED {
          unknown (0),
          level2RegionalNumber (1),
          level1RegionalNumber (2),
          pTNSpecificNumber (3),
          localNumber (4),
          abbreviatedNumber (6)},
        privateNumberDigits NumericString (SIZE (1..20))},
      nationalStandardPartyNumber [8] IMPLICIT NumericString (SIZE (1..20))},
    screeningIndicator ENUMERATED {
      userProvidedNotScreened (0),
      userProvidedVerifiedAndPassed (1),
      networkProvided (3)},
    partySubaddress CHOICE {
      userSpecifiedSubaddress SEQUENCE {
        subaddressInformation OCTET STRING (SIZE (1..20)),
```

```
        oddCountIndicator BOOLEAN OPTIONAL},
        nsapSubaddress OCTET STRING (SIZE (1..20)) OPTIONAL},
presentationRestricted [1] IMPLICIT NULL,
numberNotAvailableDueToInterworking [2] IMPLICIT NULL,
presentationRestrictedAddress [3] IMPLICIT SEQUENCE {
    partyNumber CHOICE {
        unknownPartyNumber [0] IMPLICIT NumericString (SIZE (1..20)),
        publicPartyNumber [1] IMPLICIT SEQUENCE {
            publicTypeOfNumber ENUMERATED {
                unknown (0),
                internationalNumber (1),
                nationalNumber (2),
                networkSpecificNumber (3),
                subscriberNumber (4),
                abbreviatedNumber (6)},
            publicNumberDigits NumericString (SIZE (1..20))},
        dataPartyNumber [3] IMPLICIT NumericString (SIZE (1..20)),
        telexPartyNumber [4] IMPLICIT NumericString (SIZE (1..20)),
        privatePartyNumber [5] IMPLICIT SEQUENCE {
            privateTypeOfNumber ENUMERATED {
                unknown (0),
                level2RegionalNumber (1),
                level1RegionalNumber (2),
                pTNSpecificNumber (3),
                localNumber (4),
                abbreviatedNumber (6)},
            privateNumberDigits NumericString (SIZE (1..20))},
            nationalStandardPartyNumber [8] IMPLICIT NumericString (SIZE (1..20))},
        screeningIndicator ENUMERATED {
            userProvidedNotScreened (0),
            userProvidedVerifiedAndPassed (1),
            networkProvided (3)},
        partySubaddress CHOICE {
            userSpecifiedSubaddress SEQUENCE {
                subaddressInformation OCTET STRING (SIZE (1..20)),
                oddCountIndicator BOOLEAN OPTIONAL},
            nsapSubaddress OCTET STRING (SIZE (1..20)) OPTIONAL}}
PresentedAddressUnscreened ::= CHOICE {
    presentationAllowedAddress [0] IMPLICIT SEQUENCE {
        partyNumber CHOICE {
            unknownPartyNumber [0] IMPLICIT NumericString (SIZE (1..20)),
            publicPartyNumber [1] IMPLICIT SEQUENCE {
                publicTypeOfNumber ENUMERATED {
                    unknown (0),
                    internationalNumber (1),
                    nationalNumber (2),
                    networkSpecificNumber (3),
                    subscriberNumber (4),
                    abbreviatedNumber (6)},
                publicNumberDigits NumericString (SIZE (1..20))},
            dataPartyNumber [3] IMPLICIT NumericString (SIZE (1..20)),
            telexPartyNumber [4] IMPLICIT NumericString (SIZE (1..20)),
            privatePartyNumber [5] IMPLICIT SEQUENCE {
                privateTypeOfNumber ENUMERATED {
                    unknown (0),
                    level2RegionalNumber (1),
                    level1RegionalNumber (2),
                    pTNSpecificNumber (3),
                    localNumber (4),
                    abbreviatedNumber (6)},
                privateNumberDigits NumericString (SIZE (1..20))},
                nationalStandardPartyNumber [8] IMPLICIT NumericString (SIZE (1..20))},
            partySubaddress CHOICE {
                userSpecifiedSubaddress SEQUENCE {
                    subaddressInformation OCTET STRING (SIZE (1..20)),
                    oddCountIndicator BOOLEAN OPTIONAL},
                nsapSubaddress OCTET STRING (SIZE (1..20)) OPTIONAL},
            presentationRestricted [1] IMPLICIT NULL,
            numberNotAvailableDueToInterworking [2] IMPLICIT NULL,
            presentationRestrictedAddress [3] IMPLICIT SEQUENCE {
                partyNumber CHOICE {
                    unknownPartyNumber [0] IMPLICIT NumericString (SIZE (1..20)),
                    publicPartyNumber [1] IMPLICIT SEQUENCE {
                        publicTypeOfNumber ENUMERATED {
                            unknown (0),
                            internationalNumber (1),
                            nationalNumber (2),
                            networkSpecificNumber (3),
                            subscriberNumber (4),
                            abbreviatedNumber (6)},
                        publicNumberDigits NumericString (SIZE (1..20))},
                    dataPartyNumber [3] IMPLICIT NumericString (SIZE (1..20)),
                    telexPartyNumber [4] IMPLICIT NumericString (SIZE (1..20)),
                    privatePartyNumber [5] IMPLICIT SEQUENCE {
```

```
privateTypeOfNumber ENUMERATED {
    unknown (0),
    level2RegionalNumber (1),
    level1RegionalNumber (2),
    pTNSpecificNumber (3),
    localNumber (4),
    abbreviatedNumber (6)},
privateNumberDigits NumericString (SIZE (1..20)),
nationalStandardPartyNumber [8] IMPLICIT NumericString (SIZE (1..20)),
partySubaddress CHOICE {
    userSpecifiedSubaddress SEQUENCE {
        subaddressInformation OCTET STRING (SIZE (1..20)),
        oddCountIndicator BOOLEAN OPTIONAL},
    nsapSubaddress OCTET STRING (SIZE (1..20))} OPTIONAL}}

PresentedNumberScreened ::= CHOICE {
    presentationAllowedNumber [0] IMPLICIT SEQUENCE {
        partyNumber CHOICE {
            unknownPartyNumber [0] IMPLICIT NumericString (SIZE (1..20)),
            publicPartyNumber [1] IMPLICIT SEQUENCE {
                publicTypeOfNumber ENUMERATED {
                    unknown (0),
                    internationalNumber (1),
                    nationalNumber (2),
                    networkSpecificNumber (3),
                    subscriberNumber (4),
                    abbreviatedNumber (6)},
                publicNumberDigits NumericString (SIZE (1..20)),
                dataPartyNumber [3] IMPLICIT NumericString (SIZE (1..20)),
                telexPartyNumber [4] IMPLICIT NumericString (SIZE (1..20)),
                privatePartyNumber [5] IMPLICIT SEQUENCE {
                    privateTypeOfNumber ENUMERATED {
                        unknown (0),
                        level2RegionalNumber (1),
                        level1RegionalNumber (2),
                        pTNSpecificNumber (3),
                        localNumber (4),
                        abbreviatedNumber (6)},
                    privateNumberDigits NumericString (SIZE (1..20)),
                    nationalStandardPartyNumber [8] IMPLICIT NumericString (SIZE (1..20))},
                screeningIndicator ENUMERATED {
                    userProvidedNotScreened (0),
                    userProvidedVerifiedAndPassed (1),
                    networkProvided (3)}}},
    presentationRestricted [1] IMPLICIT NULL,
    numberNotAvailableDueToInterworking [2] IMPLICIT NULL,
    presentationRestrictedNumber [3] IMPLICIT SEQUENCE {
        partyNumber CHOICE {
            unknownPartyNumber [0] IMPLICIT NumericString (SIZE (1..20)),
            publicPartyNumber [1] IMPLICIT SEQUENCE {
                publicTypeOfNumber ENUMERATED {
                    unknown (0),
                    internationalNumber (1),
                    nationalNumber (2),
                    networkSpecificNumber (3),
                    subscriberNumber (4),
                    abbreviatedNumber (6)},
                publicNumberDigits NumericString (SIZE (1..20)),
                dataPartyNumber [3] IMPLICIT NumericString (SIZE (1..20)),
                telexPartyNumber [4] IMPLICIT NumericString (SIZE (1..20)),
                privatePartyNumber [5] IMPLICIT SEQUENCE {
                    privateTypeOfNumber ENUMERATED {
                        unknown (0),
                        level2RegionalNumber (1),
                        level1RegionalNumber (2),
                        pTNSpecificNumber (3),
                        localNumber (4),
                        abbreviatedNumber (6)},
                    privateNumberDigits NumericString (SIZE (1..20)),
                    nationalStandardPartyNumber [8] IMPLICIT NumericString (SIZE (1..20))},
                screeningIndicator ENUMERATED {
                    userProvidedNotScreened (0),
                    userProvidedVerifiedAndPassed (1),
                    networkProvided (3)}}}}

PresentedNumberUnscreened ::= CHOICE {
    presentationAllowedNumber [0] CHOICE {
        unknownPartyNumber [0] IMPLICIT NumericString (SIZE (1..20)),
        publicPartyNumber [1] IMPLICIT SEQUENCE {
            publicTypeOfNumber ENUMERATED {
                unknown (0),
                internationalNumber (1),
                nationalNumber (2),
                networkSpecificNumber (3),
                subscriberNumber (4),
```

```
        abbreviatedNumber (6)},
        publicNumberDigits NumericString (SIZE (1..20)),
        dataPartyNumber [3] IMPLICIT NumericString (SIZE (1..20)),
        telexPartyNumber [4] IMPLICIT NumericString (SIZE (1..20)),
        privatePartyNumber [5] IMPLICIT SEQUENCE {
            privateTypeOfNumber ENUMERATED {
                unknown (0),
                level2RegionalNumber (1),
                level1RegionalNumber (2),
                pTNSpecificNumber (3),
                localNumber (4),
                abbreviatedNumber (6)},
            privateNumberDigits NumericString (SIZE (1..20)),
            nationalStandardPartyNumber [8] IMPLICIT NumericString (SIZE (1..20)),
        presentationRestricted [1] IMPLICIT NULL,
        numberNotAvailableDueToInterworking [2] IMPLICIT NULL,
        presentationRestrictedNumber [3] CHOICE {
            unknownPartyNumber [0] IMPLICIT NumericString (SIZE (1..20)),
            publicPartyNumber [1] IMPLICIT SEQUENCE {
                publicTypeOfNumber ENUMERATED {
                    unknown (0),
                    internationalNumber (1),
                    nationalNumber (2),
                    networkSpecificNumber (3),
                    subscriberNumber (4),
                    abbreviatedNumber (6)},
                publicNumberDigits NumericString (SIZE (1..20)),
                dataPartyNumber [3] IMPLICIT NumericString (SIZE (1..20)),
                telexPartyNumber [4] IMPLICIT NumericString (SIZE (1..20)),
                privatePartyNumber [5] IMPLICIT SEQUENCE {
                    privateTypeOfNumber ENUMERATED {
                        unknown (0),
                        level2RegionalNumber (1),
                        level1RegionalNumber (2),
                        pTNSpecificNumber (3),
                        localNumber (4),
                        abbreviatedNumber (6)},
                    privateNumberDigits NumericString (SIZE (1..20)),
                    nationalStandardPartyNumber [8] IMPLICIT NumericString (SIZE (1..20))}}
        }
    }
}

AddressScreened ::= SEQUENCE {
    partyNumber CHOICE {
        unknownPartyNumber [0] IMPLICIT NumericString (SIZE (1..20)),
        publicPartyNumber [1] IMPLICIT SEQUENCE {
            publicTypeOfNumber ENUMERATED {
                unknown (0),
                internationalNumber (1),
                nationalNumber (2),
                networkSpecificNumber (3),
                subscriberNumber (4),
                abbreviatedNumber (6)},
            publicNumberDigits NumericString (SIZE (1..20)),
            dataPartyNumber [3] IMPLICIT NumericString (SIZE (1..20)),
            telexPartyNumber [4] IMPLICIT NumericString (SIZE (1..20)),
            privatePartyNumber [5] IMPLICIT SEQUENCE {
                privateTypeOfNumber ENUMERATED {
                    unknown (0),
                    level2RegionalNumber (1),
                    level1RegionalNumber (2),
                    pTNSpecificNumber (3),
                    localNumber (4),
                    abbreviatedNumber (6)},
                privateNumberDigits NumericString (SIZE (1..20)),
                nationalStandardPartyNumber [8] IMPLICIT NumericString (SIZE (1..20))}},
        screeningIndicator ENUMERATED {
            userProvidedNotScreened (0),
            userProvidedVerifiedAndPassed (1),
            networkProvided (3)},
        partySubaddress CHOICE {
            userSpecifiedSubaddress SEQUENCE {
                subaddressInformation OCTET STRING (SIZE (1..20)),
                oddCountIndicator BOOLEAN OPTIONAL},
            nsapSubaddress OCTET STRING (SIZE (1..20))} OPTIONAL}
    }
}

NumberScreened ::= SEQUENCE {
    partyNumber CHOICE {
        unknownPartyNumber [0] IMPLICIT NumericString (SIZE (1..20)),
        publicPartyNumber [1] IMPLICIT SEQUENCE {
            publicTypeOfNumber ENUMERATED {
                unknown (0),
                internationalNumber (1),
                nationalNumber (2),
                networkSpecificNumber (3),
                subscriberNumber (4),
                abbreviatedNumber (6)},
```

```
    publicNumberDigits NumericString (SIZE (1..20)),
    dataPartyNumber [3] IMPLICIT NumericString (SIZE (1..20)),
    telexPartyNumber [4] IMPLICIT NumericString (SIZE (1..20)),
    privatePartyNumber [5] IMPLICIT SEQUENCE {
        privateTypeOfNumber ENUMERATED {
            unknown (0),
            level2RegionalNumber (1),
            level1RegionalNumber (2),
            pTNSpecificNumber (3),
            localNumber (4),
            abbreviatedNumber (6)},
        privateNumberDigits NumericString (SIZE (1..20)),
        nationalStandardPartyNumber [8] IMPLICIT NumericString (SIZE (1..20)),
    screeningIndicator ENUMERATED {
        userProvidedNotScreened (0),
        userProvidedVerifiedAndPassed (1),
        networkProvided (3)}}
```

```
Address ::= SEQUENCE {
    partyNumber CHOICE {
        unknownPartyNumber [0] IMPLICIT NumericString (SIZE (1..20)),
        publicPartyNumber [1] IMPLICIT SEQUENCE {
            publicTypeOfNumber ENUMERATED {
                unknown (0),
                internationalNumber (1),
                nationalNumber (2),
                networkSpecificNumber (3),
                subscriberNumber (4),
                abbreviatedNumber (6)},
            publicNumberDigits NumericString (SIZE (1..20)),
            dataPartyNumber [3] IMPLICIT NumericString (SIZE (1..20)),
            telexPartyNumber [4] IMPLICIT NumericString (SIZE (1..20)),
            privatePartyNumber [5] IMPLICIT SEQUENCE {
                privateTypeOfNumber ENUMERATED {
                    unknown (0),
                    level2RegionalNumber (1),
                    level1RegionalNumber (2),
                    pTNSpecificNumber (3),
                    localNumber (4),
                    abbreviatedNumber (6)},
                privateNumberDigits NumericString (SIZE (1..20)),
                nationalStandardPartyNumber [8] IMPLICIT NumericString (SIZE (1..20)),
            partySubaddress CHOICE {
                userSpecifiedSubaddress SEQUENCE {
                    subaddressInformation OCTET STRING (SIZE (1..20)),
                    oddCountIndicator BOOLEAN OPTIONAL},
                nsapSubaddress OCTET STRING (SIZE (1..20)) OPTIONAL}
```

```
PartyNumber ::= CHOICE {
    unknownPartyNumber [0] IMPLICIT NumericString (SIZE (1..20)),
    publicPartyNumber [1] IMPLICIT SEQUENCE {
        publicTypeOfNumber ENUMERATED {
            unknown (0),
            internationalNumber (1),
            nationalNumber (2),
            networkSpecificNumber (3),
            subscriberNumber (4),
            abbreviatedNumber (6)},
        publicNumberDigits NumericString (SIZE (1..20)),
        dataPartyNumber [3] IMPLICIT NumericString (SIZE (1..20)),
        telexPartyNumber [4] IMPLICIT NumericString (SIZE (1..20)),
        privatePartyNumber [5] IMPLICIT SEQUENCE {
            privateTypeOfNumber ENUMERATED {
                unknown (0),
                level2RegionalNumber (1),
                level1RegionalNumber (2),
                pTNSpecificNumber (3),
                localNumber (4),
                abbreviatedNumber (6)},
            privateNumberDigits NumericString (SIZE (1..20)),
            nationalStandardPartyNumber [8] IMPLICIT NumericString (SIZE (1..20))}
```

```
PublicPartyNumber ::= SEQUENCE {
    publicTypeOfNumber ENUMERATED {
        unknown (0),
        internationalNumber (1),
        nationalNumber (2),
        networkSpecificNumber (3),
        subscriberNumber (4),
        abbreviatedNumber (6)},
    publicNumberDigits NumericString (SIZE (1..20))}
```

```
PrivatePartyNumber ::= SEQUENCE {
    privateTypeOfNumber ENUMERATED {
        unknown (0),
```

```
    level2RegionalNumber (1),
    level1RegionalNumber (2),
    pTNSpecificNumber (3),
    localNumber (4),
    abbreviatedNumber (6)},
privateNumberDigits NumericString (SIZE (1..20))

NumberDigits ::= NumericString (SIZE (1..20))

PublicTypeOfNumber ::= ENUMERATED {
    unknown (0),
    internationalNumber (1),
    nationalNumber (2),
    networkSpecificNumber (3),
    subscriberNumber (4),
    abbreviatedNumber (6)}

PrivateTypeOfNumber ::= ENUMERATED {
    unknown (0),
    level2RegionalNumber (1),
    level1RegionalNumber (2),
    pTNSpecificNumber (3),
    localNumber (4),
    abbreviatedNumber (6)}

PartySubaddress ::= CHOICE {
    userSpecifiedSubaddress SEQUENCE {
        subaddressInformation OCTET STRING (SIZE (1..20)),
        oddCountIndicator BOOLEAN OPTIONAL},
    nsapSubaddress OCTET STRING (SIZE (1..20))}

UserSpecifiedSubaddress ::= SEQUENCE {
    subaddressInformation OCTET STRING (SIZE (1..20)),
    oddCountIndicator BOOLEAN OPTIONAL}

NSAPSubaddress ::= OCTET STRING (SIZE (1..20))

SubaddressInformation ::= OCTET STRING (SIZE (1..20))

ScreeningIndicator ::= ENUMERATED {
    userProvidedNotScreened (0),
    userProvidedVerifiedAndPassed (1),
    networkProvided (3)}

BasicService ::= ENUMERATED {
    allServices (0),
    speech (1),
    unrestrictedDigitalInformation (2),
    audio3kHz (3),
    unrestrictedDigitalInformationWithTonesAndAnnouncements (4),
    telephony3kHz (32),
    teletex (33),
    telefaxGroup4Class1 (34),
    videotexSyntaxBased (35),
    videotelephony (36),
    telefaxGroup2-3 (37),
    telephony7kHz (38)}

SS-Code ::= CHOICE {
    allSS [0] IMPLICIT NULL,
    lineIdentification [1] IMPLICIT BIT STRING {
        callingLineIdentificationPresentation (0),
        callingLineIdentificationRestriction (1),
        connectedLineIdentificationPresentation (2),
        connectedLineIdentificationRestriction (3),
        maliciousCallIdentification (4)} (SIZE (1..8)),
    callOffering [2] IMPLICIT BIT STRING {
        callTransfer (0),
        mobileAccessHunting (1),
        callForwardingUnconditional (3),
        callForwardingOnSubscriberBusy (5),
        callForwardingOnNoReply (6),
        callForwardingOnSubscriberNotReachable (7)} (SIZE (1..8)),
    callCompletion [3] IMPLICIT BIT STRING {
        callWaiting (0),
        callHold (1),
        callCompletionOnBusySubscriber (2)} (SIZE (1..8)),
    multiParty [4] IMPLICIT BIT STRING {
        multiParty (0)} (SIZE (1..8)),
    communityOfInterest [5] IMPLICIT BIT STRING {
        closedUserGroup (0)} (SIZE (1..8)),
    charging [6] IMPLICIT BIT STRING {
        adviceOfChargeInformation (0),
        adviceOfChargeCharging (1)} (SIZE (1..8)),
    additionalInfoTransfer [7] IMPLICIT BIT STRING {
```

```
    userToUserSignalling (0)} (SIZE (1..8)),
callRestriction [8] IMPLICIT BIT STRING {
    barringOfOutgoingCalls (0),
    barringOfAllOutgoingCalls (1),
    barringOfOutgoingInternationalCalls (2),
    barringOfOutgoingInternationalCallsExceptHomePLMN (3),
    barringOfIncomingCalls (4),
    barringOfAllIncomingCalls (5),
    barringOfIncomingCallsWhenRoamingOutsideHomePLMN (6)} (SIZE (1..8)),
plmnSpecific [9] IMPLICIT INTEGER (0..15)}

LineIdentification ::= BIT STRING {
    callingLineIdentificationPresentation (0),
    callingLineIdentificationRestriction (1),
    connectedLineIdentificationPresentation (2),
    connectedLineIdentificationRestriction (3),
    maliciousCallIdentification (4)} (SIZE (1..8))

allLineIdentification BIT STRING {
    callingLineIdentificationPresentation (0),
    callingLineIdentificationRestriction (1),
    connectedLineIdentificationPresentation (2),
    connectedLineIdentificationRestriction (3),
    maliciousCallIdentification (4)} (SIZE (1..8)) ::= '11111111'B

CallOfferingOrForwarding ::= BIT STRING {
    callTransfer (0),
    mobileAccessHunting (1),
    callForwardingUnconditional (3),
    callForwardingOnSubscriberBusy (5),
    callForwardingOnNoReply (6),
    callForwardingOnSubscriberNotReachable (7)} (SIZE (1..8))

allCallOffering BIT STRING {
    callTransfer (0),
    mobileAccessHunting (1),
    callForwardingUnconditional (3),
    callForwardingOnSubscriberBusy (5),
    callForwardingOnNoReply (6),
    callForwardingOnSubscriberNotReachable (7)} (SIZE (1..8)) ::= '00000111'B

allUnconditionalForwarding BIT STRING {
    callTransfer (0),
    mobileAccessHunting (1),
    callForwardingUnconditional (3),
    callForwardingOnSubscriberBusy (5),
    callForwardingOnNoReply (6),
    callForwardingOnSubscriberNotReachable (7)} (SIZE (1..8)) ::= '00011000'B

allCondForwarding BIT STRING {
    callTransfer (0),
    mobileAccessHunting (1),
    callForwardingUnconditional (3),
    callForwardingOnSubscriberBusy (5),
    callForwardingOnNoReply (6),
    callForwardingOnSubscriberNotReachable (7)} (SIZE (1..8)) ::= '11100000'B

allCallForwarding BIT STRING {
    callTransfer (0),
    mobileAccessHunting (1),
    callForwardingUnconditional (3),
    callForwardingOnSubscriberBusy (5),
    callForwardingOnNoReply (6),
    callForwardingOnSubscriberNotReachable (7)} (SIZE (1..8)) ::= '11111000'B

allCallOfferingAndForwardingSS BIT STRING {
    callTransfer (0),
    mobileAccessHunting (1),
    callForwardingUnconditional (3),
    callForwardingOnSubscriberBusy (5),
    callForwardingOnNoReply (6),
    callForwardingOnSubscriberNotReachable (7)} (SIZE (1..8)) ::= '11111111'B

CallCompletion ::= BIT STRING {
    callWaiting (0),
    callHold (1),
    callCompletionOnBusySubscriber (2)} (SIZE (1..8))

allCallCompletionSS BIT STRING {
    callWaiting (0),
    callHold (1),
    callCompletionOnBusySubscriber (2)} (SIZE (1..8)) ::= '11111111'B

MultiParty ::= BIT STRING {
    multiParty (0)} (SIZE (1..8))
```

```
allMultiPartySS BIT STRING {
  multiParty (0)} (SIZE (1..8)) ::= '11111111'B

CommunityOfInterest ::= BIT STRING {
  closedUserGroup (0)} (SIZE (1..8))

allCommunityOfInterestSS BIT STRING {
  closedUserGroup (0)} (SIZE (1..8)) ::= '11111111'B

Charging ::= BIT STRING {
  adviceOfChargeInformation (0),
  adviceOfChargeCharging (1)} (SIZE (1..8))

allChargingSS BIT STRING {
  adviceOfChargeInformation (0),
  adviceOfChargeCharging (1)} (SIZE (1..8)) ::= '11111111'B

AdditionalInfoTransfer ::= BIT STRING {
  userToUserSignalling (0)} (SIZE (1..8))

allAdditionalInfoTransferSS BIT STRING {
  userToUserSignalling (0)} (SIZE (1..8)) ::= '11111111'B

CallRestriction ::= BIT STRING {
  barringOfOutgoingCalls (0),
  barringOfAllOutgoingCalls (1),
  barringOfOutgoingInternationalCalls (2),
  barringOfOutgoingInternationalCallsExceptHomePLMN (3),
  barringOfIncomingCalls (4),
  barringOfAllIncomingCalls (5),
  barringOfIncomingCallsWhenRoamingOutsideHomePLMN (6)} (SIZE (1..8))

allCallRestrictionSS BIT STRING {
  barringOfOutgoingCalls (0),
  barringOfAllOutgoingCalls (1),
  barringOfOutgoingInternationalCalls (2),
  barringOfOutgoingInternationalCallsExceptHomePLMN (3),
  barringOfIncomingCalls (4),
  barringOfAllIncomingCalls (5),
  barringOfIncomingCallsWhenRoamingOutsideHomePLMN (6)} (SIZE (1..8)) ::= '11111111'B

SS-Status ::= BIT STRING {
  quiescent (3),
  provisioned (2),
  registered (1),
  active (0)} (SIZE (8))

mobileDomainId OBJECT IDENTIFIER ::= { 0 4 etsi (0) mobileDomain (0) }

gsm-NetworkId OBJECT IDENTIFIER ::= { 0 4 etsi (0) mobileDomain (0) gsm-Network (1) }

gsm-AccessId OBJECT IDENTIFIER ::= { 0 4 etsi (0) mobileDomain (0) gsm-Access (2) }

gsm-OperationAndMaintenanceId OBJECT IDENTIFIER ::= { 0 4 etsi (0) mobileDomain (0) gsm-
Operation-Maintenance (3) }

gsm-MessagingId OBJECT IDENTIFIER ::= { 0 4 etsi (0) mobileDomain (0) gsm-Messaging (4) }

CommonComponentId ::= INTEGER {
  ac-Id (0),
  as-Id (1),
  ase-Id (2),
  moduleId (3),
  er-Id (4)} (0..9)

inDomainId OBJECT IDENTIFIER ::= { 0 4 etsi (0) inDomain (1) }

in-NetworkId OBJECT IDENTIFIER ::= { 0 4 etsi (0) inDomain (1) in-Network (1) }

in-UptId OBJECT IDENTIFIER ::= { 0 4 etsi (0) inDomain (1) in-Upt (2) }

IN-CommonComponentId ::= INTEGER {
  moduleId (0),
  ac-Id (1)} (0..9)

etsiPrefix OBJECT IDENTIFIER ::= { 0 4 etsi (0) }

MainTreeDefinition ::= OBJECT IDENTIFIER

SubTreeDefinition ::= OBJECT IDENTIFIER

etsiLibrary OBJECT IDENTIFIER ::= { 0 4 etsi (0) etsi-library (2) }

END
```

Annex B (informative): Cross reference of the ETSI library

For every ASN.1 item such as identifier, type-reference or value-reference the cross-reference allows to locate all occurrences by means of module-name and line numbers. For that purpose line numbers are printed at the left margin in front of each ASN.1 source line starting with 1 for every module.

The items are sorted alphabetically in the cross-reference in a case-insensitive manner. Occurrences of an item are its definition and all its usages such as in exports, imports or within a type or value assignment.

For every item additional information is provided such as kind of item (identifier, value reference, type reference), and tag, associated type and value if applicable.

The cross-reference for a root module includes all modules referred to directly or indirectly via imports.

```
abbreviatedNumber.....identifier of Named Number, 6
  DEFINED in ETSI-Library      :    137

abbreviatedNumber.....identifier of Named Number, 6
  DEFINED in ETSI-Library      :    149

active.....identifier of Named Number, 0
  DEFINED in ETSI-Library      :    320

ac-Id.....identifier of Named Number, 0
  DEFINED in ETSI-Library      :    342

ac-Id.....identifier of Named Number, 1
  DEFINED in ETSI-Library      :    366

additionalInfoTransfer.....identifier of [7] AdditionalInfoTransfer
  DEFINED in ETSI-Library      :    229

AdditionalInfoTransfer.....type reference BIT STRING
  DEFINED in ETSI-Library      :    293
  USED in ETSI-Library        :    229    297

Address.....type reference SEQUENCE
  DEFINED in ETSI-Library      :     94
  USED in ETSI-Library        :     17     59     62

AddressScreened.....type reference SEQUENCE
  DEFINED in ETSI-Library      :     81
  USED in ETSI-Library        :     51     54

adviceOfChargeCharging.....identifier of Named Number, 1
  DEFINED in ETSI-Library      :    288

adviceOfChargeInformation.....identifier of Named Number, 0
  DEFINED in ETSI-Library      :    287

allAdditionalInfoTransferSS.....value reference AdditionalInfoTransfer, '1111111'B
  DEFINED in ETSI-Library      :    297

allCallCompletionSS.....value reference CallCompletion, '1111111'B
  DEFINED in ETSI-Library      :    272

allCallForwarding.....value reference CallOfferingOrForwarding, '0000111'B
  DEFINED in ETSI-Library      :    262

allCallOffering.....value reference CallOfferingOrForwarding, '00011000'B
  DEFINED in ETSI-Library      :    256

allCallOfferingAndForwardingSS.....value reference CallOfferingOrForwarding, '1111111'B
  DEFINED in ETSI-Library      :    264

allCallRestrictionSS.....value reference CallRestriction, '1111111'B
  DEFINED in ETSI-Library      :    309

allChargingSS.....value reference Charging, '1111111'B
  DEFINED in ETSI-Library      :    291

allCommunityOfInterestSS.....value reference CommunityOfInterest, '1111111'B
  DEFINED in ETSI-Library      :    284

allCondForwarding.....value reference CallOfferingOrForwarding, '11100000'B
  DEFINED in ETSI-Library      :    260
```

```

allLineIdentification.....value reference LineIdentification, '11111111'B
  DEFINED in ETSI-Library      : 242

allMultiPartySS.....value reference MultiParty, '11111111'B
  DEFINED in ETSI-Library      : 278

allServices.....identifier of Named Number, 0
  DEFINED in ETSI-Library      : 197

allSS.....identifier of [0] NULL
  DEFINED in ETSI-Library      : 222

allUnconditionalForwarding.....value reference CallOfferingOrForwarding, '11111000'B
  DEFINED in ETSI-Library      : 258

ase-Id.....identifier of Named Number, 2
  DEFINED in ETSI-Library      : 344

as-Id.....identifier of Named Number, 1
  DEFINED in ETSI-Library      : 343

audio3klHz.....identifier of Named Number, 3
  DEFINED in ETSI-Library      : 200

barringOfAllIncomingCalls.....identifier of Named Number, 5
  DEFINED in ETSI-Library      : 305

barringOfAllOutgoingCalls.....identifier of Named Number, 1
  DEFINED in ETSI-Library      : 301

barringOfIncomingCalls.....identifier of Named Number, 4
  DEFINED in ETSI-Library      : 304

barringOfIncomingCallsWhenRoamingOutsideidentifier of Named Number, 6
  DEFINED in ETSI-Library      : 306

barringOfOutgoingCalls.....identifier of Named Number, 0
  DEFINED in ETSI-Library      : 300

barringOfOutgoingInternationalCalls....identifier of Named Number, 2
  DEFINED in ETSI-Library      : 302

barringOfOutgoingInternationalCallsExcepidentifier of Named Number, 3
  DEFINED in ETSI-Library      : 303

BasicService.....type reference ENUMERATED
  DEFINED in ETSI-Library      : 195
  USED in ETSI-Library        : 23

callCompletion.....identifier of [3] CallCompletion
  DEFINED in ETSI-Library      : 225

CallCompletion.....type reference BIT STRING
  DEFINED in ETSI-Library      : 266
  USED in ETSI-Library        : 225 272

callCompletionOnBusySubscriber.....identifier of Named Number, 2
  DEFINED in ETSI-Library      : 269

callForwardingOnNoReply.....identifier of Named Number, 6
  DEFINED in ETSI-Library      : 252

callForwardingOnSubscriberBusy.....identifier of Named Number, 5
  DEFINED in ETSI-Library      : 251

callForwardingOnSubscriberNotReachable..identifier of Named Number, 7
  DEFINED in ETSI-Library      : 253

callForwardingUnconditional.....identifier of Named Number, 3
  DEFINED in ETSI-Library      : 249

callHold.....identifier of Named Number, 1
  DEFINED in ETSI-Library      : 268

callingLineIdentificationPresentation...identifier of Named Number, 0
  DEFINED in ETSI-Library      : 235

callingLineIdentificationRestriction...identifier of Named Number, 1
  DEFINED in ETSI-Library      : 236

callOffering.....identifier of [2] CallOfferingOrForwarding
  DEFINED in ETSI-Library      : 224

```

```

CallOfferingOrForwarding.....type reference BIT STRING
  DEFINED in ETSI-Library      : 244
  USED in ETSI-Library        : 224 256 258 260 262 264

callRestriction.....identifier of [8] CallRestriction
  DEFINED in ETSI-Library      : 230

CallRestriction.....type reference BIT STRING
  DEFINED in ETSI-Library      : 299
  USED in ETSI-Library        : 230 309

callTransfer.....identifier of Named Number, 0
  DEFINED in ETSI-Library      : 246

callWaiting.....identifier of Named Number, 0
  DEFINED in ETSI-Library      : 267

charging.....identifier of [6] Charging
  DEFINED in ETSI-Library      : 228

Charging.....type reference BIT STRING
  DEFINED in ETSI-Library      : 286
  USED in ETSI-Library        : 228 291

closedUserGroup.....identifier of Named Number, 0
  DEFINED in ETSI-Library      : 281

CommonComponentId.....type reference INTEGER
  DEFINED in ETSI-Library      : 340
  USED in ETSI-Library        : 37

communityOfInterest.....identifier of [5] CommunityOfInterest
  DEFINED in ETSI-Library      : 227

CommunityOfInterest.....type reference BIT STRING
  DEFINED in ETSI-Library      : 280
  USED in ETSI-Library        : 227 284

connectedLineIdentificationPresentation.identifier of Named Number, 2
  DEFINED in ETSI-Library      : 237

connectedLineIdentificationRestriction..identifier of Named Number, 3
  DEFINED in ETSI-Library      : 238

dataPartyNumber.....identifier of [3] NumberDigits
  DEFINED in ETSI-Library      : 107

er-Id.....identifier of Named Number, 4
  DEFINED in ETSI-Library      : 346

etsi.....identifier of Named Number, 0
  DEFINED in ETSI-Library      : 374

etsiLibrary.....value reference MainTreeDefinition, OBJECT IDENTIFIER VALUE
  DEFINED in ETSI-Library      : 380

etsiPrefix.....value reference OBJECT IDENTIFIER, OBJECT IDENTIFIER VALUE
  DEFINED in ETSI-Library      : 374
  USED in ETSI-Library        : 10 328 354 380

ETSI-Library.....module reference
  DEFINED in ETSI-Library      : 1

etsi-library.....identifier of Named Number, 2
  DEFINED in ETSI-Library      : 380

gsm-Access.....identifier of Named Number, 2
  DEFINED in ETSI-Library      : 333

gsm-AccessId.....value reference SubTreeDefinition, OBJECT IDENTIFIER VALUE
  DEFINED in ETSI-Library      : 333
  USED in ETSI-Library        : 34

gsm-Messaging.....identifier of Named Number, 4
  DEFINED in ETSI-Library      : 336

gsm-MessagingId.....value reference SubTreeDefinition, OBJECT IDENTIFIER VALUE
  DEFINED in ETSI-Library      : 336
  USED in ETSI-Library        : 36

gsm-Network.....identifier of Named Number, 1
  DEFINED in ETSI-Library      : 332
  
```

```

gsm-NetworkId.....value reference SubTreeDefinition, OBJECT IDENTIFIER VALUE
  DEFINED in ETSI-Library      : 332
  USED in ETSI-Library         : 33

gsm-OperationAndMaintenanceId.....value reference SubTreeDefinition, OBJECT IDENTIFIER VALUE
  DEFINED in ETSI-Library      : 334
  USED in ETSI-Library         : 35

gsm-Operation-Maintenance.....identifier of Named Number, 3
  DEFINED in ETSI-Library      : 335

inDomain.....identifier of Named Number, 1
  DEFINED in ETSI-Library      : 354

inDomainId.....value reference MainTreeDefinition, OBJECT IDENTIFIER VALUE
  DEFINED in ETSI-Library      : 354
  USED in ETSI-Library         : 40 358 359

internationalNumber.....identifier of Named Number, 1
  DEFINED in ETSI-Library      : 133

IN-CommonComponentId.....type reference INTEGER
  DEFINED in ETSI-Library      : 363
  USED in ETSI-Library         : 43

in-Network.....identifier of Named Number, 1
  DEFINED in ETSI-Library      : 358

in-NetworkId.....value reference SubTreeDefinition, OBJECT IDENTIFIER VALUE
  DEFINED in ETSI-Library      : 358
  USED in ETSI-Library         : 41

in-Upt.....identifier of Named Number, 2
  DEFINED in ETSI-Library      : 359

in-UptId.....value reference SubTreeDefinition, OBJECT IDENTIFIER VALUE
  DEFINED in ETSI-Library      : 359
  USED in ETSI-Library         : 42

level1RegionalNumber.....identifier of Named Number, 2
  DEFINED in ETSI-Library      : 146

level2RegionalNumber.....identifier of Named Number, 1
  DEFINED in ETSI-Library      : 145

lineIdentification.....identifier of [1] LineIdentification
  DEFINED in ETSI-Library      : 223

LineIdentification.....type reference BIT STRING
  DEFINED in ETSI-Library      : 234
  USED in ETSI-Library         : 223 242

localNumber.....identifier of Named Number, 4
  DEFINED in ETSI-Library      : 148

MainTreeDefinition.....type reference OBJECT IDENTIFIER
  DEFINED in ETSI-Library      : 376
  USED in ETSI-Library         : 328 354 380

maliciousCallIdentification.....identifier of Named Number, 4
  DEFINED in ETSI-Library      : 239

mobileAccessHunting.....identifier of Named Number, 1
  DEFINED in ETSI-Library      : 247

mobileDomain.....identifier of Named Number, 0
  DEFINED in ETSI-Library      : 328

mobileDomainId.....value reference MainTreeDefinition, OBJECT IDENTIFIER VALUE
  DEFINED in ETSI-Library      : 328
  USED in ETSI-Library         : 32 332 333 335 336

moduleId.....identifier of Named Number, 3
  DEFINED in ETSI-Library      : 345

moduleId.....identifier of Named Number, 0
  DEFINED in ETSI-Library      : 365

multiParty.....identifier of [4] MultiParty
  DEFINED in ETSI-Library      : 226

MultiParty.....type reference BIT STRING
  DEFINED in ETSI-Library      : 274
  USED in ETSI-Library         : 226 278

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multiParty.....identifier of Named Number, 0
  DEFINED in ETSI-Library      :    275

nationalNumber.....identifier of Named Number, 2
  DEFINED in ETSI-Library      :    134

nationalStandardPartyNumber.....identifier of [8] NumberDigits
  DEFINED in ETSI-Library      :    110

networkProvided.....identifier of Named Number, 3
  DEFINED in ETSI-Library      :    186

networkSpecificNumber.....identifier of Named Number, 3
  DEFINED in ETSI-Library      :    135

nsapSubaddress.....identifier of NSAPSubaddress
  DEFINED in ETSI-Library      :    156

NSAPSubaddress.....type reference OCTET STRING
  DEFINED in ETSI-Library      :    167
  USED in ETSI-Library        :    156

NumberDigits.....type reference NumericString
  DEFINED in ETSI-Library      :    125
  USED in ETSI-Library        :    102  107  108  110  116  122

numberNotAvailableDueToInterworking.....identifier of [2] NULL
  DEFINED in ETSI-Library      :    53

numberNotAvailableDueToInterworking.....identifier of [2] NULL
  DEFINED in ETSI-Library      :    61

numberNotAvailableDueToInterworking.....identifier of [2] NULL
  DEFINED in ETSI-Library      :    69

numberNotAvailableDueToInterworking.....identifier of [2] NULL
  DEFINED in ETSI-Library      :    77

NumberScreened.....type reference SEQUENCE
  DEFINED in ETSI-Library      :    88
  USED in ETSI-Library        :    67  70

oddCountIndicator.....identifier of BOOLEAN
  DEFINED in ETSI-Library      :    163

partyNumber.....identifier of PartyNumber
  DEFINED in ETSI-Library      :    83

partyNumber.....identifier of PartyNumber
  DEFINED in ETSI-Library      :    90

partyNumber.....identifier of PartyNumber
  DEFINED in ETSI-Library      :    96

PartyNumber.....type reference CHOICE
  DEFINED in ETSI-Library      :    100
  USED in ETSI-Library        :    18  75  78  83  90  96

partySubaddress.....identifier of PartySubaddress
  DEFINED in ETSI-Library      :    85

partySubaddress.....identifier of PartySubaddress
  DEFINED in ETSI-Library      :    97

PartySubaddress.....type reference CHOICE
  DEFINED in ETSI-Library      :    152
  USED in ETSI-Library        :    19  85  97

plmnSpecific.....identifier of [9] INTEGER
  DEFINED in ETSI-Library      :    231

presentationAllowedAddress.....identifier of [0] AddressScreened
  DEFINED in ETSI-Library      :    51

presentationAllowedAddress.....identifier of [0] Address
  DEFINED in ETSI-Library      :    59

presentationAllowedNumber.....identifier of [0] NumberScreened
  DEFINED in ETSI-Library      :    67

presentationAllowedNumber.....identifier of [0] PartyNumber
  DEFINED in ETSI-Library      :    75

presentationRestricted.....identifier of [1] NULL
  DEFINED in ETSI-Library      :    52

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presentationRestricted.....identifier of [1] NULL
  DEFINED in ETSI-Library      :    60

presentationRestricted.....identifier of [1] NULL
  DEFINED in ETSI-Library      :    68

presentationRestricted.....identifier of [1] NULL
  DEFINED in ETSI-Library      :    76

presentationRestrictedAddress.....identifier of [3] AddressScreened
  DEFINED in ETSI-Library      :    54

presentationRestrictedAddress.....identifier of [3] Address
  DEFINED in ETSI-Library      :    62

presentationRestrictedNumber.....identifier of [3] NumberScreened
  DEFINED in ETSI-Library      :    70

presentationRestrictedNumber.....identifier of [3] PartyNumber
  DEFINED in ETSI-Library      :    78

PresentedAddressScreened.....type reference CHOICE
  DEFINED in ETSI-Library      :    49
  USED in ETSI-Library        :    13

PresentedAddressUnscreened.....type reference CHOICE
  DEFINED in ETSI-Library      :    57
  USED in ETSI-Library        :    14

PresentedNumberScreened.....type reference CHOICE
  DEFINED in ETSI-Library      :    65
  USED in ETSI-Library        :    15

PresentedNumberUnscreened.....type reference CHOICE
  DEFINED in ETSI-Library      :    73
  USED in ETSI-Library        :    16

privateNumberDigits.....identifier of NumberDigits
  DEFINED in ETSI-Library      :   122

privatePartyNumber.....identifier of [5] PrivatePartyNumber
  DEFINED in ETSI-Library      :   109

PrivatePartyNumber.....type reference SEQUENCE
  DEFINED in ETSI-Library      :   119
  USED in ETSI-Library        :   109

privateTypeOfNumber.....identifier of PrivateTypeOfNumber
  DEFINED in ETSI-Library      :   121

PrivateTypeOfNumber.....type reference ENUMERATED
  DEFINED in ETSI-Library      :   142
  USED in ETSI-Library        :   121

provisioned.....identifier of Named Number, 2
  DEFINED in ETSI-Library      :   318

pTNSpecificNumber.....identifier of Named Number, 3
  DEFINED in ETSI-Library      :   147

publicNumberDigits.....identifier of NumberDigits
  DEFINED in ETSI-Library      :   116

publicPartyNumber.....identifier of [1] PublicPartyNumber
  DEFINED in ETSI-Library      :   105

PublicPartyNumber.....type reference SEQUENCE
  DEFINED in ETSI-Library      :   113
  USED in ETSI-Library        :   105

publicTypeOfNumber.....identifier of PublicTypeOfNumber
  DEFINED in ETSI-Library      :   115

PublicTypeOfNumber.....type reference ENUMERATED
  DEFINED in ETSI-Library      :   128
  USED in ETSI-Library        :   115

quiescent.....identifier of Named Number, 3
  DEFINED in ETSI-Library      :   317

registered.....identifier of Named Number, 1
  DEFINED in ETSI-Library      :   319

screeningIndicator.....identifier of ScreeningIndicator
  DEFINED in ETSI-Library      :    84

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screeningIndicator.....identifier of ScreeningIndicator
  DEFINED in ETSI-Library      :      91

ScreeningIndicator.....type reference ENUMERATED
  DEFINED in ETSI-Library      :      177
  USED in ETSI-Library         :      20      84      91

speech.....identifier of Named Number, 1
  DEFINED in ETSI-Library      :      198

SS-Code.....type reference CHOICE
  DEFINED in ETSI-Library      :      221
  USED in ETSI-Library         :      29

SS-Status.....type reference BIT STRING
  DEFINED in ETSI-Library      :      316
  USED in ETSI-Library         :      26

subaddressInformation.....identifier of SubaddressInformation
  DEFINED in ETSI-Library      :      162

SubaddressInformation.....type reference OCTET STRING
  DEFINED in ETSI-Library      :      172
  USED in ETSI-Library         :      162

subscriberNumber.....identifier of Named Number, 4
  DEFINED in ETSI-Library      :      136

SubTreeDefinition.....type reference OBJECT IDENTIFIER
  DEFINED in ETSI-Library      :      378
  USED in ETSI-Library         :      332  333  334  336  358  359

telefaxGroup2-3.....identifier of Named Number, 37
  DEFINED in ETSI-Library      :      207

telefaxGroup4Class1.....identifier of Named Number, 34
  DEFINED in ETSI-Library      :      204

telephony3k1Hz.....identifier of Named Number, 32
  DEFINED in ETSI-Library      :      202

telephony7kHz.....identifier of Named Number, 38
  DEFINED in ETSI-Library      :      208

teletex.....identifier of Named Number, 33
  DEFINED in ETSI-Library      :      203

telexPartyNumber.....identifier of [4] NumberDigits
  DEFINED in ETSI-Library      :      108

unknown.....identifier of Named Number, 0
  DEFINED in ETSI-Library      :      130

unknown.....identifier of Named Number, 0
  DEFINED in ETSI-Library      :      144

unknownPartyNumber.....identifier of [0] NumberDigits
  DEFINED in ETSI-Library      :      102

unrestrictedDigitalInformation.....identifier of Named Number, 2
  DEFINED in ETSI-Library      :      199

unrestrictedDigitalInformationWithTonesAidentifier of Named Number, 4
  DEFINED in ETSI-Library      :      201

userProvidedNotScreened.....identifier of Named Number, 0
  DEFINED in ETSI-Library      :      179

userProvidedVerifiedAndPassed.....identifier of Named Number, 1
  DEFINED in ETSI-Library      :      182

userSpecifiedSubaddress.....identifier of UserSpecifiedSubaddress
  DEFINED in ETSI-Library      :      154

UserSpecifiedSubaddress.....type reference SEQUENCE
  DEFINED in ETSI-Library      :      160
  USED in ETSI-Library         :      154

userToUserSignalling.....identifier of Named Number, 0
  DEFINED in ETSI-Library      :      294

videotelephony.....identifier of Named Number, 36
  DEFINED in ETSI-Library      :      206

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videotexSyntaxBased.....identifier of Named Number, 35
DEFINED in ETSI-Library : 205

Annex C (informative): Bibliography

The rules and procedures stated in the following references were applied to this ETS:

- TCR-TR 046 (1996): "ASN.1 library rules and procedures; Version 1".

NOTE 1: TCR-TR 046 is only available to ETSI members.

- ETR 060 (1995): "Signalling Protocols and Switching (SPS); Guidelines for using Abstract Syntax Notation One (ASN.1) in telecommunication application protocols".

The following references are given for informative purposes.

- TCR-TR 019 (1994): "Signalling Protocols and Switching (SPS); Evaluation of ASN.1 tools for use as syntax and semantics checkers".

NOTE 2: TCR-TR 019 is only available to ETSI members.

- ETR 210: "ASN.1 library index; Version 1.1.1".

The following references are given for information purposes. They were the source for extracting the ASN.1 definitions contained herein:

- ETR 090 (1993): "ETSI object identifier tree; Common domain; Intelligent network (IN) domain".
- ETR 091 (1993): "ETSI object identifier tree; Common domain, Mobile domain".
- ETS 300 196-1 (1993): "Integrated Services Digital Network (ISDN); Generic functional protocol for the support of supplementary services; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- ETS 300 564 (1995): "European digital cellular telecommunications system (Phase 2); Mobile radio interface layer 3; Supplementary services specification; Formats and coding (GSM 04.80)".
- ETS 300 599 (1995): "European digital cellular telecommunications system (Phase 2); Mobile Application Part (MAP) specification (GSM 09.02)".
- ETS 300 612-2: "European digital cellular telecommunications system (Phase 2); Network Management (NM); Part 2: Common aspects of GSM/DCS 1800; Network Management (GSM 12.01)".
- ETS 300 622: "European digital cellular telecommunications system (Phase 2); Base Station System (BSS) Management Information (GSM 12.20)".

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