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Usmerjanje klicev do storitev evropskega telefonskega številskega prostora (ETNS)

Routing of calls to European Telephony Numbering Space (ETNS) services

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Routeing of calls to European Telephony Numbering Space (ETNS) services

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Contents

Intellectual Property Rights.....	4
Foreword	4
1 Scope.....	5
2 References.....	5
2.1 Normative references	5
2.2 Informative references	5
3 Definitions, symbols and abbreviations.....	6
3.1 Definitions	6
3.2 Symbols	7
3.3 Abbreviations.....	7
4 Reference model for the ETNS.....	8
4.1 Call-related part	8
4.1.1 First leg: getting the ETNS Routeing number (Rn).....	8
4.1.2 Second leg: providing the ETNS service.....	9
4.1.3 Service provision by the Serving Network (SgN)	9
4.2 Management part (non call-related).....	9
4.2.1 European number assignment.....	10
4.2.2 ETNS Routeing numbers updating.....	10
5 Routeing	10
5.1 Routeing methods	10
5.1.1 Single translation.....	11
5.1.2 Double translation	11
5.2 Structure of ETNS Routeing numbers	12
5.3 Addressing between networks.....	12
5.4 Routeing of calls.....	13
5.4.1 Within Europe	13
5.4.2 To Europe.....	13
5.4.3 From Europe	13
5.4.4 Transiting through Europe.....	14
Annex A (informative): Routing of calls to Corporate Networks (CN).....	15
A.1 Routing of calls to Corporate Networks (CN)	15
A.1.1 Direct routeing	15
A.1.2 Single and double translation.....	15
Annex B (informative): Structures of the ETNS Routeing numbers	16
B.1 Structures of the ETNS Routeing numbers.....	16
History	17

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Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Network Aspects (NA).

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Date of adoption of this EN:	9 October 1998
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1 Scope

The present document specifies the routing methods that shall be used for implementation of the European Telephony Numbering Space (ETNS), the alternative structures of the routing numbers, the addressing between networks and how routing of calls within Europe, to and from Europe and through Europe shall take place.

2 References

References may be made to:

- a) specific versions of publications (identified by date of publication, edition number, version number, etc.), in which case, subsequent revisions to the referenced document do not apply; or
- b) all versions up to and including the identified version (identified by "up to and including" before the version identity); or
- c) all versions subsequent to and including the identified version (identified by "onwards" following the version identity); or
- d) publications without mention of a specific version, in which case the latest version applies.

A non-specific reference to an ETS shall also be taken to refer to later versions published as a EN with the same number.

2.1 Normative references

- [1] EN 301 161 (V1.1): "Management of the European Telephony Numbering Space (ETNS)".
- [2] ITU-T Recommendation E.164: "The international public telecommunication numbering plan".
<https://standards.iteh.ai/catalog/standards/sist/73322927-29a6-4792-9f9a-9df7d7022005/sist-en-301-160-v1-1-1-2005>

2.2 Informative references

- [3] TR 101 074 (V1.1): "European Numbering Task Force; Management of the European Telephony Numbering Space (ETNS)".
- [4] TR 101 073 (V1.1): "Number portability for pan-European services".
- [5] TR 101 079 (V1.1): "Network Aspects (NA); Routing of calls to pan-European services using European Telephony Numbering Space (ETNS)".
- [6] ES 201 104 (V1.1): "Human Factors (HF); Human factors requirements for a European Telephony Numbering Space (ETNS)".
- [7] ETO Report: "Management, Routing and Portability aspects of the European Telephony Numbering Space (ETNS)".

3 Definitions, symbols and abbreviations

3.1 Definitions

For the purposes of the present document, the following definitions apply:

administrator: The administrator has the responsibility for the high level management of the ETNS.

assisted network: A network which routes a call to an European number towards a serving network it has agreement with in order to complete the call.

called party: An entity that terminates a call to an European number. The called party may be the ETNS subscriber to the European number, an entity delegated by the ETNS subscriber, or a terminating equipment of the service network (e.g. a recorded announcement equipment).

calling party: An entity that dials an European number.

ETNS country: A CEPT member country participating in the ETNS.

ETNS registrar database: The database maintained by the registrar where all data, both administrative and operational, for each European number are registered.

ETNS routeing number: An ITU-T E.164 [2] number used to route to the service exchange. It can also identify the called party, the ETNS service provider, and / or the originating network for routeing purposes.

ETNS service provider: An entity that provides one or more ETNS service(s) to its ETNS subscribers on a contractual basis.

ETNS service: A service that has been assigned an ESI.

ETNS subscriber: An entity that requests a European number from a ETNS service provider in order to offer access from a calling party to a ETNS service.

ETNS translation database: A database which, in the call process, translates the European number into a routeing number.

ETNS: The numbering resource identified by E.164 [2] country code 388, used for the provisioning of the ETNS services.

European number: A number out of the ETNS.

originating network: A network, either assisted or serving, to which the calling party is connected.

registrar: The registrar is responsible for the day-to-day management of the ESN's behind each ESI.

service exchange: An exchange of the service network that triggers the provision of the service on reception of the routeing number, and then forwards the call.

service network: A network that operates one or more service exchange(s).

serving exchange: An exchange, in the serving network, that can interrogate directly or indirectly an ETNS translation database to obtain a routeing number related to the European number, and then forward the call.

serving network: A network, with one or more serving exchanges.

terminating number: A number containing explicit information on the terminating point of the called party. The number is used to route towards the called party. It can be a routeing number, a European number or a geographical number.

3.2 Symbols

For the purposes of the present document, the following symbols apply:

	Calling party
	Called party
	Originating, transit or destination exchange
	Serving exchange
	Service exchange
	ETNS translation database
	ETNS service provider database
	Combined serving and service exchange

3.3 Abbreviations

For the purposes of the present document, the following abbreviations apply:

CC	E.164 [2] Country Code
En	European number
ESI	European Service Identity
ESP	European Service Provider
ETNS	European Telephony Numbering Space
IN	Intelligent Network
INAP	Intelligent Network Application Protocol
ISUP	ISDN User Part
R	Registrar
Rn	Routeing number
RNIC	Routeing Number Identification Code
SD	Subsequent Digits
SgN	Serving Network
SNIC	Service Network Identification Code
SNPIC	Service Network/Provider Identification Code
SP	Service Provider
Tn	Terminating number