



SLOVENSKI STANDARD
SIST-TP TR 101 772 V1.1.2:2004
01-april-2004

Harmonizacija telekomunikacij in internetnega protokola prek omrežij (TIPHON), 3. izdaja - Definicija zahtev neodvisne storitve - Zakonito prestrezanje - zahteve najvišje stopnje

Telecommunications and Internet Protocol Harmonization Over Networks (TIPHON) Release 3; Service independent requirements definition; Lawful interception - top level requirements

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST-TP TR 101 772 V1.1.2:2004](https://standards.iteh.ai/catalog/standards/sist/ee9b0c0f-5100-4408-bea2-10b6f8ecbd61/sist-tp-tr-101-772-v1-1-2-2004)
<https://standards.iteh.ai/catalog/standards/sist/ee9b0c0f-5100-4408-bea2-10b6f8ecbd61/sist-tp-tr-101-772-v1-1-2-2004>

Ta slovenski standard je istoveten z: TR 101 772 Version 1.1.2

ICS:

33.020 Telekomunikacije na splošno Telecommunications in general

SIST-TP TR 101 772 V1.1.2:2004 en

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST-TP TR 101 772 V1.1.2:2004](https://standards.iteh.ai/catalog/standards/sist/ee9b0c0f-5100-4408-bea2-10b6f8ecbd61/sist-tp-tr-101-772-v1-1-2-2004)

<https://standards.iteh.ai/catalog/standards/sist/ee9b0c0f-5100-4408-bea2-10b6f8ecbd61/sist-tp-tr-101-772-v1-1-2-2004>

ETSI TR 101 772 V1.1.2 (2001-12)

Technical Report

Telecommunications and Internet Protocol Harmonization Over Networks (TIPHON) Release 3; Service independent requirements definition; Lawful interception - top level requirements

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST-TP TR 101 772 V1.1.2:2004](https://standards.iteh.ai/catalog/standards/sist/ee9b0c0f-5100-4408-bea2-10b6f8ecbd61/sist-tp-tr-101-772-v1-1-2-2004)

<https://standards.iteh.ai/catalog/standards/sist/ee9b0c0f-5100-4408-bea2-10b6f8ecbd61/sist-tp-tr-101-772-v1-1-2-2004>



Reference

RTR/TIPHON-08003a

Keywords

interface, IP, network, security

ETSI

650 Route des Lucioles
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C
Association à but non lucratif enregistrée à la
Sous-Préfecture de Grasse (06) N° 7803/88

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST-TP TR 101 772 V1.1.2:2004

<https://standards.iteh.ai/catalog/standards/sist/ee9b0c0f-5100-4408-bea2-10b6f8ecbd61/sist-tp-tr-101-772-v1-1-2-2004>

Important notice

Individual copies of the present document can be downloaded from:

<http://www.etsi.org>

The present document may be made available in more than one electronic version or in print. In any case of existing or perceived difference in contents between such versions, the reference version is the Portable Document Format (PDF). In case of dispute, the reference shall be the printing on ETSI printers of the PDF version kept on a specific network drive within ETSI Secretariat.

Users of the present document should be aware that the document may be subject to revision or change of status. Information on the current status of this and other ETSI documents is available at

<http://portal.etsi.org/tb/status/status.asp>

If you find errors in the present document, send your comment to:

editor@etsi.fr

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 2001.
All rights reserved.

Contents

Intellectual Property Rights	4
Foreword.....	4
1 Scope	5
2 References	5
3 Definitions and abbreviations.....	5
3.1 Definitions	5
3.2 Abbreviations	5
4 Overview	6
Annex A: Bibliography.....	7
History	8

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST-TP TR 101 772 V1.1.2:2004](https://standards.iteh.ai/catalog/standards/sist/ee9b0c0f-5100-4408-bea2-10b6f8ecbd61/sist-tp-tr-101-772-v1-1-2-2004)

<https://standards.iteh.ai/catalog/standards/sist/ee9b0c0f-5100-4408-bea2-10b6f8ecbd61/sist-tp-tr-101-772-v1-1-2-2004>

Intellectual Property Rights

IPRs essential or potentially essential to the present document may have been declared to ETSI. The information pertaining to these essential IPRs, if any, is publicly available for **ETSI members and non-members**, and can be found in ETSI SR 000 314: "*Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards*", which is available from the ETSI Secretariat. Latest updates are available on the ETSI Web server (<http://webapp.etsi.org/IPR/home.asp>).

Pursuant to the ETSI IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETSI SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

Foreword

This Technical Report (TR) has been produced by ETSI Project Telecommunications and Internet Protocol Harmonization Over Networks (TIPHON).

The version numbers of the present document follow the convention:

(Edition).(Technical revision).(Editorial revision)

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST-TP TR 101 772 V1.1.2:2004](https://standards.iteh.ai/catalog/standards/sist/ee9b0c0f-5100-4408-bea2-10b6f8ecbd61/sist-tp-tr-101-772-v1-1-2-2004)

<https://standards.iteh.ai/catalog/standards/sist/ee9b0c0f-5100-4408-bea2-10b6f8ecbd61/sist-tp-tr-101-772-v1-1-2-2004>

1 Scope

The present document describes the top-level requirements for lawful interception in a TIPHON environment and is based upon the recommendations found in TR 101 750 [2].

2 References

For the purposes of this Technical Report (TR) the following references apply:

- [1] ETSI ETR 331: "Security Techniques Advisory Group (STAG); Definition of user requirements for lawful interception of telecommunications; Requirements of the law enforcement agencies".
- [2] ETSI TR 101 750 (V1.1.1): "Telecommunications and Internet Protocol Harmonization Over Networks (TIPHON); Security; Studies into the Impact of lawful interception".
- [3] ETSI ES 201 671: "Telecommunications security; Lawful Interception (LI); Handover interface for the lawful interception of telecommunications traffic".
- [4] ETSI ES 201 158: "Telecommunications Security; Lawful Interception (LI); Requirements for network functions".
- [5] ETSI TS 101 509: "Digital cellular telecommunications system (Phase 2+); Lawful interception; Stage 2 (3GPP TS 03.33 version 8.1.0 Release 1999)".
- [6] ETSI EN 301 040: "Terrestrial Trunked Radio (TETRA); Security; Lawful Interception (LI) interface".
- [7] ETSI TS 133 107: "Universal Mobile Telecommunications System (UMTS); 3G Security; Lawful Interception Architecture and Functions (3GPP TS 33.107 version 3.1.0 Release 1999)".

[https://standards.iteh.ai/catalog/standards/sist/ee9b0c0f-5100-4408-bea2-](https://standards.iteh.ai/catalog/standards/sist/ee9b0c0f-5100-4408-bea2-10b6f8ecbd61/sist-tp-tr-101-772-v1-1-2-2004)

[10b6f8ecbd61/sist-tp-tr-101-772-v1-1-2-2004](https://standards.iteh.ai/catalog/standards/sist/ee9b0c0f-5100-4408-bea2-10b6f8ecbd61/sist-tp-tr-101-772-v1-1-2-2004)

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in TR 101 750 [2], ETR 331 [1], ES 201 158 [4] and the following apply:

access provider: provides a user of some network with access from the user's terminal to that network

3.2 Abbreviations

For the purposes of the present document, the abbreviations given in TR 101 750 [2], ETR 331 [1] and ES 201 158 [4] and the following apply:

GSM	Global System for Mobile (telephony)
IMEI	International Mobile Equipment Identity
IMSI	International Mobile Subscriber Identity
ISDN	Integrated Services Digital Network
ITSI	Individual TETRA Subscriber Identity
LI	Lawful Interception
MSISDN	Mobile Subscriber International Services Directory Number
PSTN	Public Switched Telephone Network
TEI	TETRA Equipment Identity
TETRA	Terrestrial Trunked Radio
UMTS	Universal Mobile Telephone Service

4 Overview

The requirements in the present document are based upon the recommendations described in TR 101 750 [2].

TIPHON covers both the provision of voice related services on IP and the interworking and interconnection with circuit switched technologies. The TIPHON architecture has been developed as an abstract model in TS 101 314 (see bibliography). TIPHON separates the provision of service from the provision of transport and so offers the capability for a user to register from any geographical location and to use any access network which may be located in any geographical location. The identities used by those entities providing transport may not have a deducible relationship to the identities used by those entities providing service.

Lawful Interception of the media stream in a TIPHON environment is provided by the transport plane and may take place in the access network used by the target or in any other network that carries the traffic of the target using an identity provided by the TIPHON application plane.

TIPHON has identified an application environment model shown in figure 1. In the example shown, there are three Service Capabilities, A, B and C. These are distributed across the TIPHON network and service environment model and instantiated as C_o , C_{T2} and C_T etc. Lawful interception is one of these distributed service capabilities.

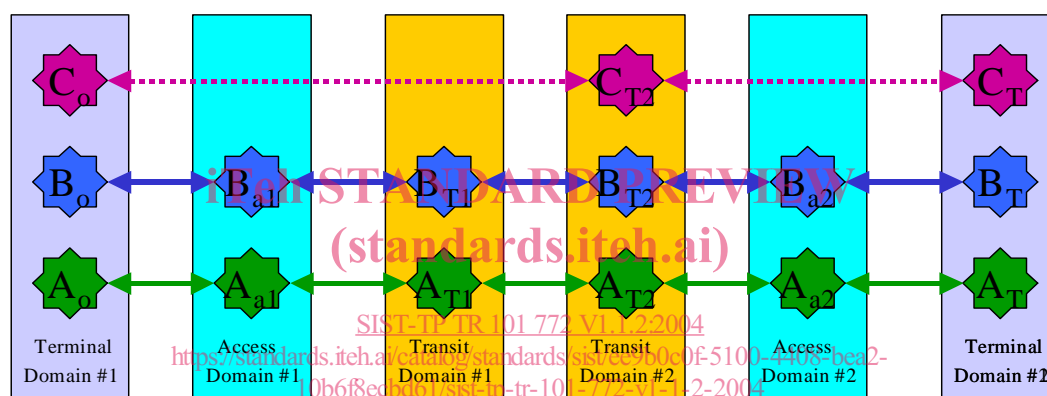


Figure 1: Service Capabilities interworking across domains

Table 1 gives a list of the access technologies for which lawful interception requirements have been defined. Table 1 also lists the identifiers for targets that are used in the documents listed.

Table 1: Lawful Interception specifications for various access technologies

Access Network Technology	Reference document	Target identity (note)
GPRS	TS 101 509 [5]	IMSI, MSISDN, IMEI
GSM	TS 101 509 [5]	IMSI, MSISDN, IMEI
ISDN, PSTN	ES 201 671 [3]	Directory Number
TETRA	EN 301 040 [6]	ITSI, TEI, MSISDN
UMTS	TS 133 107 [7]	As for GSM for release 99
NOTE:	Within each technology there may be more than one concurrent identity being intercepted (for example an equipment may be intercepted rather than an individual (target as IMEI rather than IMSI), or one of a set of telephone numbers (target as MSISDN rather than IMSI).	

Requirements have not yet been specified for xDSL access and access on dedicated circuits such as leased lines, which will be used widely for access to TIPHON networks.

Where the access technologies are circuit switched but are used to carry IP packets, for example IP over ISDN, then the circuit switched technology shall provide lawful interception.

Annex A: Bibliography

- European Union Council Resolution COM 96/C329/01 of 17 January 1995 on the Lawful Interception of Telecommunications.
- ETSI TS 101 314: "TIPHON Release 3; Information Flow and Reference Points Definition; Network Architecture and Reference Points".

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST-TP TR 101 772 V1.1.2:2004](https://standards.iteh.ai/catalog/standards/sist/ee9b0c0f-5100-4408-bea2-10b6f8ecbd61/sist-tp-tr-101-772-v1-1-2-2004)

<https://standards.iteh.ai/catalog/standards/sist/ee9b0c0f-5100-4408-bea2-10b6f8ecbd61/sist-tp-tr-101-772-v1-1-2-2004>