

# ETSI TS 186 001-1 V2.2.1 (2010-07)

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*Technical Specification*

## **Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); Network Integration Testing between SIP and ISDN/PSTN network signalling protocols; Part 1: Test Suite Structure and Test Purposes (TSS&TP) for SIP-ISDN**

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Reference

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## Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN).

The present document is part 1 of a multi-part deliverable covering Network Integration Testing between SIP and ISDN/PSTN network signalling protocols:

**Part 1: "Test Suite Structure and Test Purposes (TSS&TP) for SIP-ISDN";**

Part 2: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification";

Part 3: "Test Suite Structure and Test Purposes (TSS&TP) for SIP-SIP".

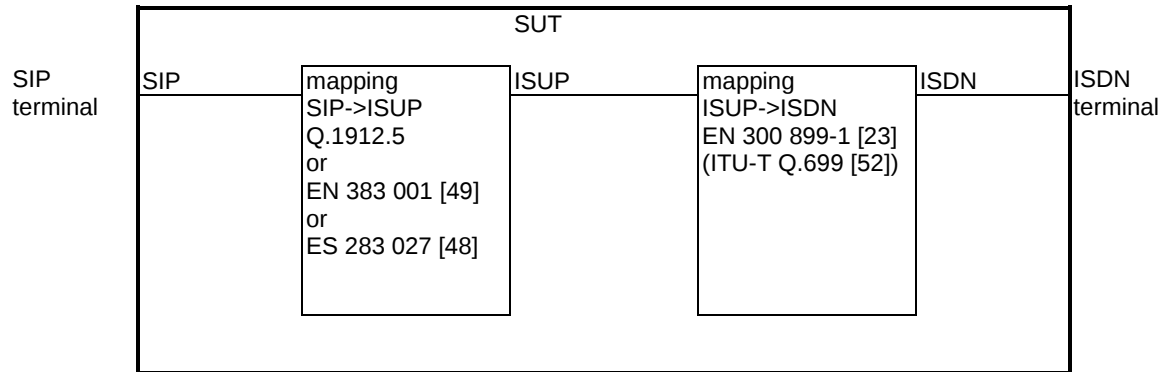
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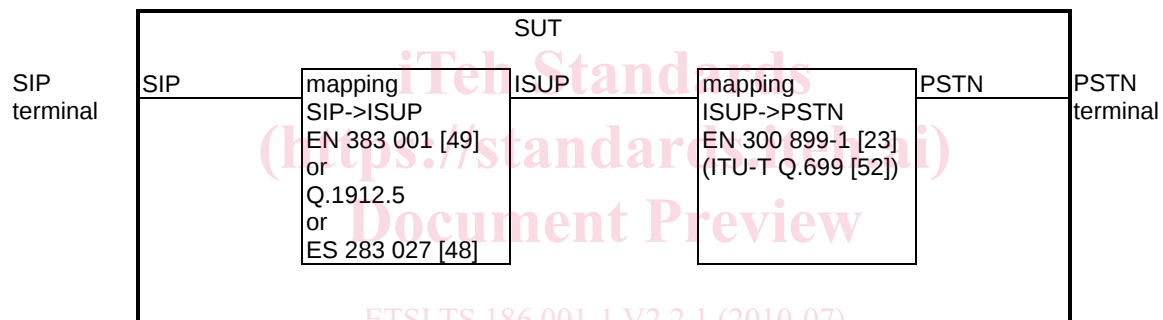
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# 1 Scope

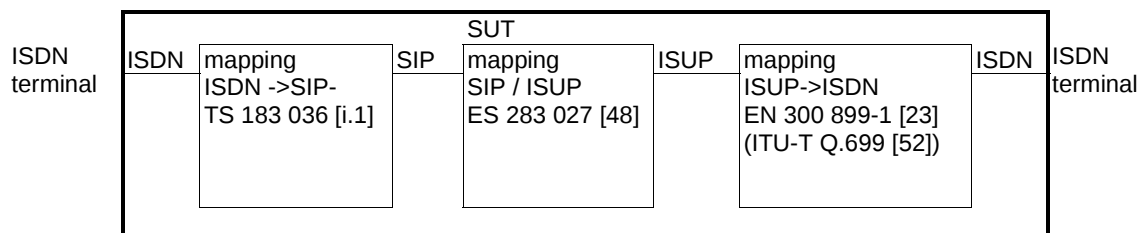
The present document specifies the Test Suite Structure and Test Purposes (TSS&TP) for Network Integration Testing (NIT) to verify the overall compatibility of SIP, ISDN and non-ISDN (PSTN) over the national or international ISDN networks. The TSS&TP specification covers the procedures described in ITU-T Recommendation Q.1912.5 [51] or EN 383 001 [49] or ES 283 027 [48] and EN 300 899-1 [23]. For SIP and SDP specific terminology, reference shall be made to ES 283 003 [42] respectively RFC 3261 [28].



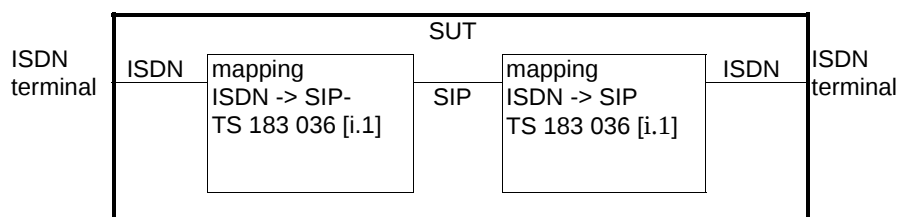
**Figure 1: SIP-ISDN inter-working testing architecture**



**Figure 2a: SIP-PSTN inter-working testing architecture**



**Figure 2b: ISDN-ISDN inter-working testing architecture with ISUP**



**Figure 2c: ISDN-ISDN inter-working testing architecture without ISUP**

## 2 References

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### 2.1 Normative references

The following referenced documents are necessary for the application of the present document.

- |      |                                                                                                                                                                                               |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [1]  | Void.                                                                                                                                                                                         |
| [2]  | ITU-T Recommendations Q.1902.2 (2001): "Bearer Independent Call Control protocol (Capability Set 2) and Signalling System No.7 ISDN User Part: General functions of messages and parameters". |
| [3]  | Void.                                                                                                                                                                                         |
| [4]  | Void.                                                                                                                                                                                         |
| [5]  | Void.                                                                                                                                                                                         |
| [6]  | Void.                                                                                                                                                                                         |
| [7]  | Void.                                                                                                                                                                                         |
| [8]  | Void.                                                                                                                                                                                         |
| [9]  | Void.                                                                                                                                                                                         |
| [10] | Void.                                                                                                                                                                                         |
| [11] | Void.                                                                                                                                                                                         |
| [12] | Void.                                                                                                                                                                                         |
| [13] | Void.                                                                                                                                                                                         |
| [14] | ITU-T Recommendation Q.734.1 (03/93): "Stage 3 description for multiparty supplementary services using Signalling System No. 7: Conference calling".                                          |
| [15] | ITU-T Recommendation Q.734.2 (07/96): "Stage 3 description for multiparty supplementary services using Signalling System No. 7: Three-party service".                                         |
| [16] | Void.                                                                                                                                                                                         |
| [17] | Void.                                                                                                                                                                                         |
| [18] | Void.                                                                                                                                                                                         |
| [19] | Void.                                                                                                                                                                                         |
| [20] | Void.                                                                                                                                                                                         |
| [21] | Void.                                                                                                                                                                                         |
| [22] | ITU-T Recommendation Q.850 (05/98): "Usage of cause and location in the Digital Subscriber Signalling System No. 1 and the Signalling System No. 7 ISDN User Part".                           |