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**Digitalno omrežje z integriranimi storitvami (ISDN) - Signalizacija št. 7 -  
Obratovalni, vzdrževalni in administrativni del (OMAP) - 1. del: Specifikacija  
protokola**

Integrated Services Digital Network (ISDN); Signalling System No.7; Operations,  
Maintenance and Administration Part (OMAP); Part 1: Protocol specification

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*European Standard (Telecommunications series)*

**Integrated Services Digital Network (ISDN);  
Signalling System No.7;  
Operations, Maintenance and Administration Part (OMAP);  
Part 1: Protocol specification**

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## Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Signalling Protocols and Switching (SPS).

The present document details exceptions and clarifications to ITU-T Recommendations Q.750 [1], Q.751.1 [10], Q.752 to Q.754 [2] to [4], defining the management of international ITU-T Signalling System No.7 networks, for example those used to provide the pan-European cellular digital radio system and the Integrated Services Digital Network (ISDN).

The present document also lists considerations for the interconnection of ITU-T Signalling System No.7 (SS7) networks, using ITU-T Recommendation M.4110 [17] as an aid, as well as ITU-T Recommendations Q.750 [1], Q.752 to Q.755 [2] to [18] and Q.780 [15].

The present document is part 1 of a multi-part EN covering Integrated Services Digital Network (ISDN) Signalling System No.7 Operations, Maintenance and Administration Part (OMAP), as identified below:

**Part 1: "Protocol specification";**

Part 2: "Protocol Implementation Conformance Statement (PICS) proforma specification".

<b>National transposition dates</b>	
Date of adoption of this EN	17 April 1998
Date of latest announcement of this EN (doa):	31 August 1998
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	28 February 1999
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# 1 Scope

This first part of EN 301 007 defines the requirements for monitoring and measuring in Signalling System No.7 networks (including measurements for message traffic accounting), the requirements for the Message Transfer Part (MTP) and the Signalling Connection Control Part (SCCP) managed objects, and the requirements for the MTP Routing Verification Test (MRVT) of Signalling System No.7 management. It also lists the considerations applicable when inter-connecting Signalling System No.7 networks.

The requirements in the present document are based upon ITU-T Recommendations Q.750 [1], Q.751.1 [10], Q.752 to Q.754 [2] to [4], and ETS 300 356-1 [11].

The present document draws upon ITU-T Recommendations Q.750 [1], Q.752 to Q.754 [2] to [4], Q.755 [18] and M.4110 [17] as informative references, for considerations applicable to the inter-connection of Signalling System No.7 networks.

NOTE: The requirements of M.4110 [17] are used to derive the considerations in the present document, but the present document does not make any statement as to the applicability or otherwise of M.4110 [17].

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# 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 an EN with the same number.

## 2.1 Normative references

- [1] ITU-T Recommendation Q.750 (1993): "Overview of Signalling System No. 7 management".
- [2] ITU-T Recommendation Q.752 (1993): "Monitoring and measurements for Signalling System No. 7 networks".
- [3] ITU-T Recommendation Q.753 (1993): "Signalling System No. 7 management functions MRVT, SRVT and CVT and definition of the OMASE-user".
- [4] ITU-T Recommendation Q.754 (1993): "Signalling System No. 7 management application service element (ASE) definitions".
- [5] ITU-T Recommendation Q.704 : "Signalling network functions and messages".
- [6] ETS 300 008-1 (1997): "Integrated Services Digital Network (ISDN); Signalling System No.7; Message Transfer Part (MTP) to support international interconnection; Part 1: Protocol specification [ITU-T Recommendations Q.701 (1993), Q.702 (1988), Q.703 to Q.706 (1993), Q.707 (1988) and Q.708 (1993), modified]".
- [7] ETS 300 009-1 (1996), Third Edition: "Integrated Services Digital Network (ISDN); Signalling System No.7; Signalling Connection Control Part (SCCP) (connectionless and connection-oriented class 2) to support international interconnection; Part 1: Protocol specification [ITU-T Recommendations Q.711 to Q.714 and Q.716 (1993), modified]".