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Optical Network and Device Security;
Security provisions for the management of
Optical Network devices and services

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Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee Cyber Security (CYBER).

Modal verbs terminology

In the present document **"shall"**, **"shall not"**, **"should"**, **"should not"**, **"may"**, **"need not"**, **"will"**, **"will not"**, **"can"** and **"cannot"** are to be interpreted as described in clause 3.2 of the [ETSI Drafting Rules](#) (Verbal forms for the expression of provisions).

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Introduction

The Optical Network Device Security (ONDS) suite of documents is developed as an interlinked collection, shown in figure 1.

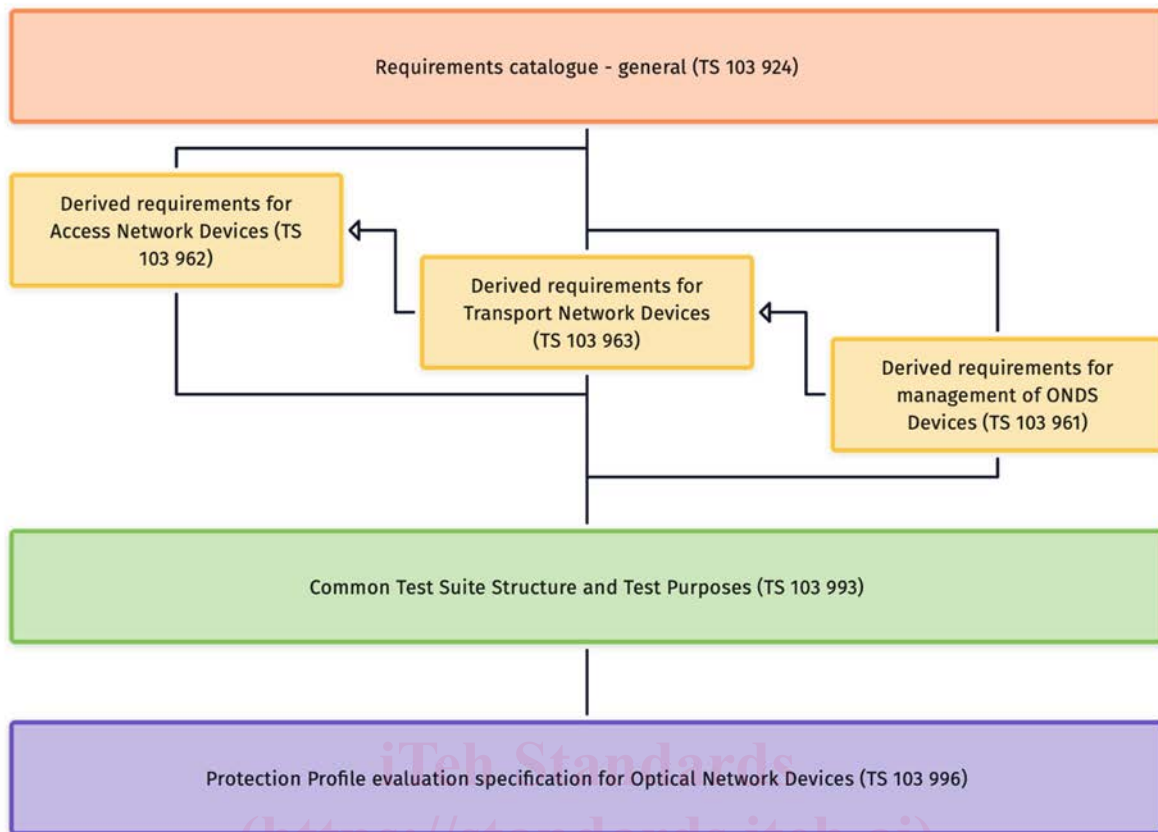


Figure 1: Document structure for Optical Network Device Security

Each of ETSI TS 103 962 [4], ETSI TS 103 963 [5] and ETSI TS 103 961 (the present document) expand upon the requirements identified in the common catalogue of ETSI TS 103 924 [1]. In the definition of detailed provisions ETSI TS 103 962 [4] acts as the master document with each of ETSI TS 103 963 [5] and the present document identifying further specializations.

To drive the evaluation and test of the ONDS suite a common Test Suite Structure and Test Purposes definition is proposed to be given in ETSI TS 103 993 [i.13], and from that will be derived a specification of the evaluation assessments to be applied for the present document, is to be given in the form of a partial protection profile in ETSI TS 103 996 [i.14].

NOTE: All of the documents identified in figure 1 act together to fully define the requirements, test and evaluation for placing an ONDS device on the market.

1 Scope

The present document defines security measures for the management of Optical Network devices and services as defined in ETSI TS 103 962 [4] and ETSI TS 103 963 [5].

The present document extends the provisions identified in the Catalogue of Requirements for Optical Network and Device Security from ETSI TS 103 924 [1].

2 References

2.1 Normative references

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

- [1] [ETSI TS 103 924](#): "Optical Network and Device Security; Catalogue of Requirements".
- [2] [Recommendation ITU-T G.7710](#): "Common equipment management function requirements".
- [3] [Recommendation ITU-T M.3700](#): "Common management services - Object management - Protocol neutral requirements and analysis".
- [4] [ETSI TS 103 962](#): "CYBER; Optical Network and Device Security; Security provisions in Optical Access Network Devices".
- [5] [ETSI TS 103 963](#): "CYBER; Optical Network and Device Security; Security provisions in transport network devices".

2.2 Informative references

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The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

- [i.1] IETF STD0062: "Simple Network Management Protocol".

NOTE: The RFCs cited for STD0062 are listed in the bibliography.

- [i.2] [Recommendations ITU-T M series](#): "Telecommunication management, including TMN and network maintenance".
- [i.3] IETF RFC 5440: "Path Computation Element (PCE) Communication Protocol (PCEP)".
- [i.4] IETF RFC 6241: "Network Configuration Protocol (NETCONF)".