MAURITIAN STANDARD

MS ISO/IEC 27033-3:2010

First edition
2012-11-24

Information technology — Security techniques — Network security —

Part 3: Reference networking scenarios — Threats, design techniques and control issues

ICS 35.040

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National foreword

This Mauritian Standard is identical with the International Standard **ISO/IEC 27033-3:2010(E)**, *Information technology — Security techniques — Network security — Part 3: Reference networking scenarios — Threats, design techniques and control issues.* It was adopted by the Mauritius Standards Bureau in 2012 on the recommendation of the **Information Technology Standards Committee** and approval of the **Standards Council** on 29 October 2012. It was notified in the Government Gazette on 29 November 2012*.

For the purposes of this standard the following change should be made:

- Wherever the words 'International Standard' appear, referring to this standard, they should be read as 'Mauritian Standard'.

The following Mauritian Standards are identical to the International Standards, which are referenced in the adopted standard:

International Standards	Corresponding Mauritian Standards
ISO/IEC 27000	**MS ISO/IEC 27000**, *Information technology — Security techniques — Information security management systems —Overview and vocabulary*
ISO/IEC 27033-1	**MS ISO/IEC 27033-1**, *Information technology — Security techniques — Network security — Part 1: Overview and concepts*

* General Notice No. 2458 of 2012

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Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work. In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of the joint technical committee is to prepare International Standards. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

ISO/IEC 27033-3 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 27, *IT Security techniques*.

ISO/IEC 27033 consists of the following parts, under the general title *Information technology — Security techniques — Network security*:

— *Part 1: Overview and concepts*

— *Part 2: Guidelines for the design and implementation of network security*

— *Part 3: Reference network scenarios — Threats, design techniques and control issues*

The following parts are under preparation:

— *Part 4: Securing communications between networks using security gateways — Threats, design techniques and control issues*

— *Part 5: Securing virtual private networks — Threats, design techniques and control issues*

There may be future parts to cover topics such as local area networks, wide area networks, wireless and radio networks, broadband networks, voice networks, Internet Protocol (IP) convergence (data, voice, video) networks, web host architectures, Internet email architectures (including outgoing online access to the Internet, and incoming access from the Internet), and routed access to third party organizations.

Information technology — Security techniques — Network security —

Part 3:
Reference networking scenarios — Threats, design techniques and control issues

1 Scope

This part of ISO/IEC 27033 describes the threats, design techniques and control issues associated with reference network scenarios. For each scenario, it provides detailed guidance on the security threats and the security design techniques and controls required to mitigate the associated risks. Where relevant, it includes references to ISO/IEC 27033-4 to ISO/IEC 27033-6 to avoid duplicating the content of those documents.

The information in this part of ISO/IEC 27033 is for use when reviewing technical security architecture/design options and when selecting and documenting the preferred technical security architecture/design and related security controls, in accordance with ISO/IEC 27033-2. The particular information selected (together with information selected from ISO/IEC 27033-4 to ISO/IEC 27033-6) will depend on the characteristics of the network environment under review, i.e. the particular network scenario(s) and 'technology' topic(s) concerned.

Overall, this part of ISO/IEC 27033 will aid considerably the comprehensive definition and implementation of security for any organization's network environment.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/IEC 27000, *Information technology — Security techniques — Information security management systems — Overview and vocabulary*

ISO/IEC 27033-1, *Information technology — Security techniques — Network security — Part 1: Overview and concepts*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO/IEC 27000, ISO/IEC 27033-1 and the following apply.

3.1
malware
malicious software
category of software that is designed with a malicious intent, containing features or capabilities that could potentially cause harm directly or indirectly to the user and/or the user's computer system

NOTE See ISO/IEC 27032.