

First edition
2014-02-15

Information technology — Security techniques — Vulnerability disclosure

*Technologies de l'information — Techniques de sécurité —
Divulgation de vulnérabilité*

Reference number
ISO/IEC 29147:2014(E)





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ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

This is a preview of "ISO/IEC 29147:2014". Click here to purchase the full version from the ANSI store.

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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.

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ISO/IEC 29147 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 27, *IT Security techniques*.

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Introduction

A vulnerability is a weakness of software, hardware, or online service that can be exploited. An exploitation of vulnerabilities results in a disruption of the confidentiality, integrity, or availability of the ICT system or related information assets, which may cause a breach of data privacy, interruption of operation of mission critical systems, and so on.

Vulnerabilities can be caused by both software or hardware design and programming flaws. Poor administrative processes and a lack of user awareness and education can also be a source of vulnerabilities, as can unforeseen changes in operating environments. Regardless of the cause, an exploitation of such vulnerabilities may result in real threats to mission-critical information systems. Individuals and organizations, including businesses and governments, rely heavily on hardware and software components used in operating systems, applications, networks, and critical national infrastructure. Vulnerabilities in these components increase risk to the information residing on them, thus increasing risks to users and owners of the information. In addition, the lack of awareness about these vulnerabilities also increases risk.

Inappropriate disclosure of a vulnerability could not only delay the deployment of the vulnerability resolution but also give attackers hints to exploit it. That is why vulnerability disclosure should be carried out appropriately.

Vulnerability disclosure is a process through which vendors and vulnerability finders may work cooperatively in finding solutions that reduce the risks associated with a vulnerability. It encompasses actions such as reporting, coordinating, and publishing information about a vulnerability and its resolution.

The goals of vulnerability disclosure include the following:

- a) ensuring that identified vulnerabilities are addressed;
- b) minimizing the risk from vulnerabilities;
- c) providing users with sufficient information to evaluate risks from vulnerabilities to their systems;
- d) setting expectations to promote positive communication and coordination among involved parties.

This International Standard provides guidelines for vendors to be included in their business processes when receiving information about potential vulnerabilities and distributing vulnerability resolution information.