POSIX Open System Environment — A Security Framework

Section 1: General

1.1 Scope

This standard defines a security framework for information processing within the POSIX Open System Environment. It applies to both standalone and interconnected (or distributed) systems. It considers an information system from a system integration perspective, that is as a whole composed of interacting components, each providing different elements of functionality and security service.

1.2 Normative References

The following standards contain provisions which, through references in this text, constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards listed below. Members of IEC and ISO maintain registers of currently valid International Standards.

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{1} ISO 7598-4: 1990 [1],

{2} ISO 9594-8: 1990, CCITT X.509: 1988, *The Directory: Authentication Framework.*

{3} ISO/IEC 10181-1:... Information Technology—Open Systems Interconnecton—Security Frameworks in Open Systems—Part 1: Security Frameworks Overview

{4} ISO/IEC 10181-2:... Information Technology—Open Systems Interconnecton—Security Frameworks in Open Systems—Part 2: Authentication Framework

{5} ISO/IEC 10181-3:... Information Technology—Open Systems Interconnecton—Security Frameworks in Open Systems—Part 3: Access Control

{6} ISO/IEC 10181-4:... Information Technology—Open Systems Interconnecton—Security Frameworks in Open Systems—Part 4: Non-Repudiation Framework

{7} ISO/IEC 10181-5:... Information Technology—Open Systems Interconnecton—Security Frameworks in Open Systems—Part 5: Integrity Framework

{8} ISO/IEC 10181-6:... Information Technology—Open Systems Interconnecton—Security Frameworks in Open Systems—Part 6: Confidentiality Framework

{9} ISO/IEC 10181-7:... Information Technology—Open Systems Interconnecton—Security Frameworks in Open Systems—Part 7: Security Audit Framework

{10} ECMA TR/46:/1988 [2], Security in Open Systems—A Security Framework

{11} ECMA-138:/1989 Security in Open Systems—Data Elements and Service Definitions

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1) ISO/IEC documents can be obtained from the ISO office, 1 Rue de Varembé, Case Postale 56, CH-1211, Genève 20, Switzerland/Suisse.

2) ECMA documents can be obtained from the European Computer Manufacturers Association, 114 Rue du Rhćne, CH-1204, Geneva, Switzerland/Suisse.

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1.3 Conformance

Not applicable.

1.4 Test Methods

Not applicable.

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