

ISO/IEC 29146:2024-01 (E)

Information technology - Security techniques - A framework for access management

Contents		Page
Foreword		iv
Introduction		v
1 Scope		1
2 Normative references		1
3 Terms and definitions		1
4 Abbreviated terms		4
5 Concepts		5
5.1 A model for controlling access to resources		5
5.1.1 Overview		5
5.1.2 Relationship between identity management system and access management system		6
5.1.3 Security characteristics of the access method		7
5.2 Relationships between logical and physical access control		7
5.3 Access management system functions and processes		8
5.3.1 Overview		8
5.3.2 Access control policy		8
5.3.3 Privilege management		9
5.3.4 Policy-related attribute information management		10
5.3.5 Authorization		11
5.3.6 Monitoring management		12
5.3.7 Alarm management		12
5.3.8 Federated access control		13
6 Reference architecture		14
6.1 Overview		14
6.2 Basic components of an access management system		15
6.2.1 Authentication endpoint		15
6.2.2 Policy decision point		15
6.2.3 Policy information point		15
6.2.4 Policy administration point		16
6.2.5 Policy enforcement point		16
6.3 Additional service components		16
6.3.1 General		16
6.3.2 Subject centric implementation		16
6.3.3 Enterprise centric implementation		18
7 Additional requirements and concerns		19
7.1 Access to administrative information		19
7.2 AMS models and policy issues		19
7.2.1 Access control models		19
7.2.2 Policies in access management		19
7.3 Legal and regulatory requirements		20
8 Practice		20
8.1 Processes		20
8.1.1 Authorization process		20
8.1.2 Privilege management process		20

- 8.2 Threats21
- 8.3 Control objectives 22
 - 8.3.1 General 22
 - 8.3.2 Validating the access management framework..... 22
 - 8.3.3 Validating the access management system24
 - 8.3.4 Validating the maintenance of an implemented AMS..... 28
- Annex A (informative) Common access control models 31**