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Information technology — Security techniques — A framework for identity management —

Part 3: **Practice** 

AMENDMENT : Identity Information Lifecycle processes

Lifecycle processes

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# Information technology — Security techniques — A framework for identity management —

## Part 3:

# **Practice**

# AMENDMENT 1: Identity Information Lifecycle processes Clause 3 Delete 3.1 and 3.6. 5.1 Remove the reference to ISO/IEC 29115 so the text reads as follows:

Remove the reference to ISO/IEC 29115 so the text reads as follows

Clause 5 presents practices to address identity related risk when operating an identity management system conforming to ISO/IEC 24760-1 and ISO/IEC 24760-2.

Add the following text and figure below the first paragraph:

Figure 1 shows the operational scope of an identity management system. The arrows in the figure identify processes that affect the recorded identity information. Details of these processes are presented in ISO/IEC 24760-1:2019 Clause 7. These processes are the prime areas of concern in assessing risks in the implementation of an identity management system.

ISO/IEC 24760-1: 2019, Figure 1 shows that when an identity is registered, it can be in different stages: established, active suspended or archived. Authentication of an entity typically can only be successful if its identity is active.

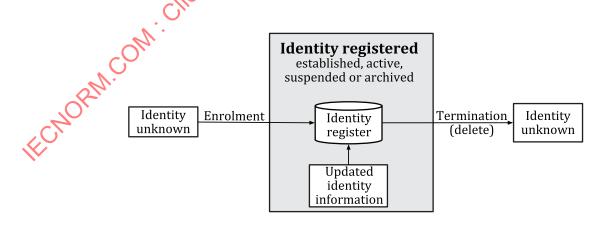


Figure 1 — Operational scope of an identity management system

5.2

Replace the first paragraph with the following:

A function of an identity management system is managing identity as data; secure operation of this data management system involves managing the risk of identity errors while protecting the confidentiality, integrity and availability of identity information stored, processed and communicated. A risk assessment should be conducted to determine the level of risk of the identity management system. The risk management should take into account the lifecycle of identity and identity information that evolve over time and may impact consumers of this information. The result provides information, which the identity management system can use to determine the necessary risk management criteria and processes. The sort of information the identity management system requires includes the level of assurance of identity required and the requirements for confidentiality, integrity and availability of identity information.

5.3.3.

Add the following paragraph at the end of the subclause:

An issuer of a credential in physical form shall implement an identity management system to process the identity of the credential device in accordance with ISO/IEC 24760-1 and ISO/IEC 24760-2.

6.3

Add the following new subclauses and text:

# 6.3.6 Categorization of identifier by method of value creation

### 6.3.6.1 As combination of attributes

A particular combination of attributes may have a unique value over all registered identities. Such a combination of attribute values may serve as an identifier.

NOTE An identifier derived from a combination of attributes can be referred to as a "quasi-identifier"

A combination of attributes of which the combined values are not unique over all registered identities may be defined to function as a shared identifier for a group of entities.

The value of such an identifier intended or expected to be used outside the domain of origin should be transformed into an identifier with a generated unique value by applying a cryptographic hash function to the combined attribute values.

### 6.3.6.2 Generated with a unique value

An identifier may be generated to have a unique value for all registered identities.

NOTE 1 Typically, at registration one such identifier can be generated to be used as a reference identifier.

NOTE 2 Atimestamp with sufficient granularity of time can be used as such an identifier for each subject that simultaneously uses a service in a domain of applications.

### 6.3.6.3 Assigned from an externally generated unique value

A unique value generated by a third party as associated with a principal may be used as identifier in an identity management system. Guarantees of the uniqueness of the values shall be obtained before deciding to use such an identifier in the registered identities. Such an identifier may be used as reference identifier.

EXAMPLE An externally generated unique value can be the identifier of a state issued identification document, e.g. the document number of a passport or driver licence, the identifier of a credential in physical form, including a hardware token, or a citizen administration number.