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Cards and security devices for personal identification — Building blocks for identity management via mobile devices —

Part 7: Registration authority procedures for mobile document

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by Joint Technical Committee ISO/IEC JTC 1, Information technology, Subcommittee SC 17, Cards and security devices for personal identification.

A list of all parts in the ISO/IEC 23220 series can be found on the ISO and IEC websites.

Any feedback or questions on this document should be directed to the user’s national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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Introduction

ISO/IEC 23220-7 is an RA standard that defines an Advisory Group for providing input on draft mdoc profiles, and a registry for mdoc profiles. The Advisory Group consists of experts, and its objective is to provide feedback to applicants. The registry comprises a public repository of existing profiles, and its objective is to limit mdoc profile duplication. Together, the Advisory Group and registry aim to assist credential ecosystems' effective and productive creation and utilization of mdoc profiles.

These concepts are implemented as follows:

1. A Registration Authority: This entity oversees the registration of mdoc types and namespaces based on the administrative rules in ISO/IEC 23220-7. Among other things, the administrative rules ensure that:

   — A document type designer or a namespace designer has control over the associated domain name.

   — The registered document type or namespace complies with the requirements in the ISO/IEC 23220 series of standards, as applicable.

2. A Registration Management Group: This group consists of an Advisory Group of experts from ISO/IEC/SC 17. They will provide advisory recommendations to applicants, but their feedback will be non-binding.

While interoperability is highly desirable between different use cases and systems, the Registration Authority will not be used to set mandatory requirements for what mdoc designers and namespace designers can include in their mdocs. Instead, interoperability is a natural consequence of access to the registry information and feedback from the RMG.

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Cards and security devices for personal identification — Building blocks for identity management via mobile devices —

Part 7: Registration authority procedures for mobile document

1 Scope

This document establishes an ISO/IEC Registration Authority (RA) that hosts a list of registered mdoc types and namespaces in a machine- and human-readable format. It establishes a Registration Management Group (RMG) with agreed upon high-level review functions for mdoc types and namespaces registration. The outcome of the registration process is a centralized list of existing mdoc types and namespaces and it also provides an opportunity for the Registration Management Group of experts to provide valuable feedback to applicants.

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/TS 23220-4, *Cards and security devices for personal identification — Building blocks for identity management via mobile devices — Part 4: Protocols and services for operational phase*

3 Terms and definitions

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org

For the purposes of this document, the following terms and definitions apply.

3.1
applicant
Organization or person requesting registration

3.2
Registration Authority (“RA”)
Entity appointed by ISO or IEC to fulfil the Registration Services in an RA Standard. More information about Registration Authorities can be found in Annex H of the ISO/IEC Directives Part 1.

3.3
Domain Expert Groups
Groups that are considered authorities on the language, processes, and requirements of their domain.

3.4
mdoc type
mdoc type is the document type as defined by ISO/IEC 23220-4 DT_dual requirement, document type.

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3.5
mdoc Profile
An mdoc profile defines the following three properties:

— ISO/IEC 23220-4 DT_dual requirement: document type.

— ISO/IEC 23220-4 NS_dual requirement: namespaces.

— ISO/IEC 23220-4 DatEl_dual requirement: data elements.

4 Symbols and abbreviations

For the purposes of this document, the following abbreviations apply:

DatEl	Data Element
DT	Document Type
JSON	JavaScript Object Notation
NS	Namespace
RA	Registration Authority
RMG	Registration Management Group
SDO	Standards Development Organization
URL	Uniform Resource Locator

5 Request and registration procedure

5.1 General

A standardized registration process is documented in this document, where mdoc designers can submit their document types and namespaces for inclusion in the registry.

Each mdoc profile has a document type as per the DT_dual requirement in ISO/IEC TS 23220-4, Annex B. A document type, also known as a “doctype” element, is specified in ISO/IEC TS 23220-2 and ISO/IEC TS 23220-4, and is a string recommended to be the inverse of a Domain Name. Every mdoc profile contains namespaces as per the NS_dual requirement in ISO/IEC TS 23220-4, Annex B, and each namespace has one or more data elements. In an mdoc profile, data elements are grouped by namespace[s]; multiple distinct namespaces may coexist in the same doctype. A request sent by a reader will point to the different data elements needed for the transaction using the data element identifier and namespace.

The scope of the profile to be registered includes:

— ISO/IEC TS 23220-4 DT_dual requirement: document type,

— ISO/IEC TS 23220-4 NS_dual requirement: namespaces and

— ISO/IEC TS 23220-4 DatEl_dual requirement: data elements.

If a new document type is being registered, it shall include details of the namespaces included in that new doctype. These namespaces can either be newly created or existing registered namespaces. Additionally, namespaces and data elements that are standardized in an ISO/IEC standard can also be referenced and utilized, such as ISO/IEC TS 23220-2.

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