



**International
Standard**

ISO/IEC 30108-1

**Biometrics — Identity attributes
verification services —**

**Part 1:
IAVS services**

Biométrie — Services de vérification d'attributs d'identité —

Partie 1: Services IAVS

**Second edition
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Contents

Page

Foreword	v
Introduction	vi
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Symbols and abbreviated terms	2
5 Conformance	3
6 System Context	3
6.1 Service-Oriented Architectures	3
6.2 IAVS architecture	4
6.3 Identity models	5
6.4 Identity databases	7
6.5 IAVS Implementation Considerations	8
6.6 Structure of this document	9
7 Identity Attributes Verification Services	9
7.1 General	9
7.2 IAVS Interface XML Schema	10
7.3 Primitive Services	11
7.3.1 AddSubjectToGallery	11
7.3.2 CheckQuality	11
7.3.3 ClassifyBiometricData	12
7.3.4 CreateEncounter	13
7.3.5 CreateSubject	14
7.3.6 DeleteBiographicData	14
7.3.7 DeleteBiometricData	15
7.3.8 DeleteDocumentData	15
7.3.9 DeleteEncounter	16
7.3.10 DeleteSubject	16
7.3.11 DeleteSubjectFromGallery	17
7.3.12 GetIdentifySubjectResults	17
7.3.13 IdentifySubject	18
7.3.14 ListBiographicData	19
7.3.15 ListBiometricData	20
7.3.16 ListDocumentData	21
7.3.17 PerformFusion	21
7.3.18 QueryCapabilities	22
7.3.19 RetrieveBiographicData	23
7.3.20 RetrieveBiometricData	23
7.3.21 RetrieveDocumentData	24
7.3.22 SetBiographicData	25
7.3.23 SetBiometricData	26
7.3.24 SetDocumentData	26
7.3.25 TransformBiometricData	27
7.3.26 UpdateBiographicData	28
7.3.27 UpdateBiometricData	28
7.3.28 UpdateDocumentData	29
7.3.29 VerifySubject	30
7.4 Aggregated Services	31
7.4.1 Delete	31
7.4.2 Enrol	32
7.4.3 GetDeleteResults	33
7.4.4 GetEnrolResults	33

7.4.5	GetIdentifyResults	34
7.4.6	GetUpdateResults	34
7.4.7	GetVerifyResults	35
7.4.8	Identify	35
7.4.9	RetrieveData	37
7.4.10	Update	37
7.4.11	Verify	38
8	Data Elements and Data Types	39
8.1	Biographic Data	39
8.1.1	Biographic Data Type	39
8.1.2	Biographic Data Item Type	40
8.1.3	Biographic Data Set Type	40
8.1.4	Biographic Data List Type	41
8.2	Biometric Data	41
8.2.1	CBEFF BIR Type	41
8.2.2	CBEFF BIR List Type	42
8.2.3	Biometric Data Element Type	43
8.2.4	Biometric Data List Type	43
8.2.5	Candidate Lists	44
8.2.6	Candidate List Type	45
8.3	Capabilities	45
8.3.1	General	45
8.3.2	Capability Type	45
8.3.3	Capability List Type	50
8.4	Document Data	50
8.4.1	Document Data Type	50
8.4.2	Document Data List Type	51
8.5	Fusion Information	51
8.5.1	General	51
8.5.2	Fusion Information Type	51
8.5.3	Fusion Information List Type	52
8.6	Other Data Types	53
8.6.1	Encounter Category Type	53
8.6.2	Encounter List Type	53
8.6.3	Information Type	53
8.6.4	List Filter Type	54
8.6.5	Option Type	54
8.6.6	Processing Options Type	55
8.6.7	Token Type	55
9	Error Handling and Notification	56
9.1	Overview	56
9.2	Successful Service Calls	56
9.3	Error Condition Codes	56
10	Security	57
Annex A (normative) Conformance requirements		59
Annex B (informative) Sample biographic data format references		68
Annex C (informative) Example usage scenarios		69
Annex D (informative) Example Encounter Scenarios		76
Bibliography		79

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.

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 document 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 or www.iec.ch/members_experts/refdocs).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see www.iso.org/iso/foreword.html. In the IEC, see www.iec.ch/understanding-standards.

This document was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 37, *Biometrics*.

This second edition cancels and replaces the first edition (ISO/IEC 30108-1:2015), which has been technically revised.

The main changes are as follows:

- Biometric Identity Assurance Services (BIAS) have been renamed to Identity Attributes Verification Services (IAVS), including in the title of this document;
- the use of encounters has been clarified, and the encounter-based parameters in the services have been debugged;
- fusion identity list type has been removed;
- the information about capabilities has been restructured;
- the lack of definition of namespaces related to the use of ISO/IEC 19785-3, has been resolved.

A list of all parts in the ISO/IEC 30108 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 and www.iec.ch/national-committees.

Introduction

This document defines the architecture, operations, data elements, and basic requirements for Identity Attributes Verification Services – a framework for the implementation of generic, biometric-based identity services within a service-oriented environment. An identity in the context of IAVS comprises a subject, biographic data, and biometric data. Other parts are intended to define specific IAVS implementations (or bindings) within specific environments, for example, Simple Object Access Protocol (SOAP) Web services.

IAVS services are generic in nature, being modality neutral and not targeted at any particular business application. These services include those related to identity data management, transformation, and biometric comparison. Services are invoked by an IAVS requester and implemented by an IAVS service provider (responder). This document does not prescribe the architecture or business logic of either the requester or service provider.

Two categories of identity services are defined in this document – primitive and aggregate. Primitive services are more atomic and well-defined, whereas the aggregated services tend to be higher level and enable more flexibility on the part of the IAVS service provider.

Two identity models are also defined in this document – person-centric and encounter-based. Person-centric systems maintain a single up-to-date record (set of data) for a given subject, whereas an encounter-based system retains data related to each interaction the subject has with the system.

This document represents a version of IAVS subsequent to that previously standardized by INCITS and OASIS, under the name "Biometric Identity Assurance Services (BIAS)". In this second edition of the document, it is therefore denoted as Version 3.0.

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Biometrics — Identity attributes verification services —

Part 1: IAVS services

1 Scope

This document defines biometric services used for identity assurance that are invoked over a services-based framework. It provides a generic set of biometric and identity-related functions and associated data definitions to allow remote access to biometric services.

The binding of these services to specific frameworks is not included in this document but is the subject of other parts of the ISO/IEC 30108 series.

Although focused on biometrics, this document includes support for other related identity assurance mechanisms such as biographic and document capabilities. IAVS is intended to be compatible with and used in conjunction with other biometric standards as described in [Clause 6](#).

Specification of biometric functionality is limited to remote (backend) services. Services between a client-side application and biometric capture devices are not within the scope of this document.

Integration of biometric services as part of an authentication service or protocol is not within the scope of this document.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 2382-37, *Information technology — Vocabulary — Part 37: Biometrics*

ISO/IEC 19785-1, *Information technology — Common Biometric Exchange Formats Framework — Part 1: Data element specification*

ISO/IEC 19785-3, *Information technology — Common Biometric Exchange Formats Framework — Part 3: Patron format specifications*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO/IEC 2382-37 and the following apply.

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/>