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Biometrics — Identity attributes verification services —

Part 1: IAVS services

Biométrie — Services de vérification d'attributs d'identité — Partie 1: Services IAVS

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ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

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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 Create Subject 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

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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

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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.

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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.

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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*

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[1] ISO/IEC 19784-1, *Information technology — Biometric application programming interface — Part 1: BioAPI specification*

[2] ISO/IEC 19785-2, *Information technology — Common Biometric Exchange Formats Framework — Part 2: Biometric registration authority*

[3] ISO/IEC 24708, *Information technology — Biometrics — BioAPI Interworking Protocol*

[4] ISO 19092, *Financial services — Biometrics — Security framework*

[5] ISO/IEC 30108-2, *Biometrics — Identity attributes verification services — Part 2: RESTful specification*

[7] *OASIS Biometric Identity Assurance Services (BIAS) SOAP Profile, v1.0, May2012*

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