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Information technology – Identity attributes verification services —

Part 2: RESTful specification

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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. In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of the joint technical committee is to prepare International Standards. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

ISO/IEC 30108-2 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information Technology*, Subcommittee SC 37, *Biometrics*.

This second/third/... edition cancels and replaces the first/second/... edition (), [clause(s) / subclause(s) / table(s) / figure(s) / annex(es)] of which [has / have] been technically revised.

ISO/IEC 30108 consists of the following parts, under the general title *Information Technology — Identity Attributes Verification Services*:

— *Part 1: IAVS Services*

— *Part 2: RESTful specification*

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Introduction

This part of ISO/IEC 30108 defines the architecture, operations, data elements, and basic requirements for identity attributes verification services – a framework for the implementation of generic, 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, 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 a IAVS requester and implemented by a IAVS service provider (responder). It does not prescribe the architecture or business logic of either the requester or service provider.

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

Two identity models are also defined – 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 international standard represents a version of IAVS defined in ISO/IEC 30108-1, but using a RESTful approach.

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Information technology – Identity attributes verification services —

Part 2: RESTful specification

1 Scope

This part of ISO/IEC 30108 implements the specification provided in part 1 using Representational State Transfer (REST). Therefore, the scope in part 1 applies to this part of ISO/IEC 30108.

2 Normative References

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below, in addition to those stated in ISO/IEC 30108-1.

ECMA Standard ECMA-404 (2017 2nd Edition) The JSON Data Interchange Format ISO\IEC 21778

Hyper Text Transfer Protocol, (HTTP/1.1) RFC 7230 [<https://httpwg.org/specs/rfc7230.html>]

Hypertext Transfer Protocol, (HTTP/1.1): Semantics and Content RFC 7231 ¹⁾

SCHEMA JSON, A Media Type for Describing JSON Documents [<http://json-schema.org/draft/2019-09/json-schema-core.html>]

AIN'T MARKUP LANGUAGE YAML, (YAML™) Version 1.2: 3rd Edition, Patched at 2009-10-01 [<https://yaml.org/spec/1.2/spec.html>]

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

RFC 3339 - *Date and Time on the Internet: Timestamps*:²⁾

3 Terms and Definitions

For the purposes of this document, the terms and definitions in ISO/IEC 30108-1 and ISO/IEC 2382-37 apply.

4 Symbols and Abbreviated Terms

For the purposes of this document, the symbols and abbreviated terms in ISO/IEC 30108-1 and the following apply.

JSON JavaScript Object Notation

REST Representational State Transfer

1) <https://tools.ietf.org/html/rfc7231#section-6>

2) <https://www.rfc-editor.org/rfc/rfc3339>

YAML Yet Another Markup Language^[3]

5 Conformance

ISO/IEC 30108-1 Annex A specifies the conformance requirements for systems/components claiming conformance to this standard.

6 System Context

This clause provides an overview of Representational State Transfer (REST), in the scope of IAVS.

6.1 Data formats

The specification included in this International Standard, has been written in OpenAPI, using YAML as the specification language. OpenAPI is an extended way to specify RESTful services, allowing a variety of tools to develop client and server applications, as well as using data in any of the data formats typically used in RESTful services, e.g., JSON or XML.

A goal for this IAVS Standard is to be as open as possible. To that end, this specification is also available in an electronic OpenAPI file, available at <https://standards.iso.org/iso-iec/30108/-2/ed-1>.

7 Biometric Identity Assurance Services

7.1 Introduction

This clause defines two categories of IAVS services, primitive and aggregate. Primitive services are lower-level operations that are used to request a specific capability. Aggregate services operate at a higher-level, performing a sequence of primitive operations in a single request. (An example of such a sequence would be a negative search where a 1:N identification which results in no matches being found is immediately followed by the addition of the biometric sample into that search population.) Implementers are not restricted to one or the other but may provide (and requesters use) a mixture of both primitive and aggregate types.

Aggregate services do not have to utilize primitive services.

Each service is identified by an *<interface>* tag and must include a *name* attribute. Service parameters are identified by a *<parameter>* tag and must include a *name*, *type*, and *direction* attribute. The *direction* attribute specifies whether the parameter is an input parameter (*in*), an output parameter (*out*), or an input/output parameter (*inout*). Parameters may also include a *use* attribute to indicate if the parameter is required, optional, or conditional. If the parameter is conditional, the service description must identify the conditions.

7.2 Primitive Services

7.2.1 Introduction

IAVS specifies the following set of primitive services.

7.2.2 Add Subject To Gallery

7.2.2.1 Description

The **Add Subject To Gallery** service shall register a subject to a given gallery or population group. As an optional parameter, the value of the claim to identity by which the subject is known to the gallery may be specified. This claim to identity shall be unique across the gallery. If no claim to identity is

specified, the subject ID (assigned with the *Create Subject* service) shall be used as the claim to identity. Additionally, in the encounter-centric model, the encounter ID associated with the subject's biometrics that will be added to the gallery shall be specified.

NOTE In the IAVS model, the creation and management of galleries are the responsibility of the service provider implementation. Services are not exposed to the requester for this purpose.

7.2.2.2 REST method

POST

7.2.2.3 Parameters

- *Gallery ID* – the identifier of the gallery or population group to which the subject will be added
- *Subject ID* – the identifier of the subject
- *Identity Claim (optional)* – the identifier by which the subject is known to the gallery
- *Encounter ID (conditional)* – the identifier of the encounter, required for encounter-centric models

7.2.2.4 Responses

In addition to the generic HTTP responses defined in [clause 9.2](#), the execution of this service shall provide one of the following responses (where the meaning of each of the Error Condition Codes can be found in [clause 9.3](#)):

Table 1 — Particular responses for *Add Subject To Gallery* service

HTTP Status Code	HTTP Status Code Meaning	Error Condition Code	Description
200	OK	SUCCESS	
400	Bad Request	INVALID_IDENTITY_CLAIM	
		INVALID_SUBJECT_ID	
		INVALID_ENCOUNTER_ID	
404	Not Found	UNKNOWN_GALLERY	
		UNKNOWN_SUBJECT	
		UNKNOWN_IDENTITY_CLAIM	
		UNKNOWN_ENCOUNTER	
500	Internal Server Error	CANNOT_STORE_DATA	
		INTERNAL_DATABASE_ERROR	

7.2.2.5 YAML specification

To be placed in section `#/paths:`

```
/addSubjectToGallery:
  post:
    summary: Add Subject To Gallery
    parameters:
      - name: galleryID
        in: query
        required: true
        schema:
          type: string
      - name: subjectID
        in: query
        required: true
```

```

    schema:
      type: string
  - name: identityClaim
    in: query
    required: false
    schema:
      type: string
  - name: encounterID
    in: query
    required: false #conditional
    schema:
      type: string
responses:
  200:
    $ref: '#/components/responses/success'
  400:
    description: Bad Request
    content:
      application/json:
        schema:
          oneOf:
            - $ref: '#/components/responses/invalidIdentityClaim'
            - $ref: '#/components/responses/invalidSubjectId'
            - $ref: '#/components/responses/invalidEncounterId'
  404:
    description: Not Found
    content:
      application/json:
        schema:
          oneOf:
            - $ref: '#/components/responses/unknownGallery'
            - $ref: '#/components/responses/unknownSubject'
            - $ref: '#/components/responses/unknownIdentityClaim'
            - $ref: '#/components/responses/unknownEncounter'
  500:
    description: Internal Server Error
    content:
      application/json:
        schema:
          oneOf:
            - $ref: '#/components/responses/cannotStoreData'
            - $ref: '#/components/responses/internalDatabaseError'
            - $ref: '#/components/responses/unknownError'
  503:
    $ref: '#/components/responses/x503'

```

7.2.3 Check Quality

7.2.3.1 Description

The **Check Quality** service shall return a quality score for a given biometric or a specified subject. Either a biometric sample or a subject ID shall be provided. The biometric input is provided in a CBEFF basic structure or CBEFF record, which in this standard is called a CBEFF-BIR. The algorithm vendor and algorithm vendor product ID may be optionally provided in order to request a particular algorithm's use in calculating the biometric quality. If an algorithm vendor is provided, then the algorithm vendor product ID is required. If no algorithm vendor is provided, the implementing system shall provide the algorithm vendor and algorithm vendor product ID that were used to calculate the biometric quality as output parameters.

NOTE Algorithm Vendors are registered with the ISO Biometric Registration Authority and assigned unique identifiers as defined in ISO/IEC 19785-2. Algorithm Product IDs are assigned by the registered algorithm vendor.

7.2.3.2 REST method

GET

7.2.3.3 Parameters

- *BIR (conditional)* – data structure containing a single biometric sample for which a quality score is to be determined; required if no Subject ID is provided
- *Subject ID (conditional)* – the identifier of the subject; required if no BIR is provided
- *Algorithm Vendor (optional)* – the identifier of the vendor of the quality algorithm used to determine the quality
- *Algorithm Vendor Product ID (conditional)* – the vendor assigned ID for the algorithm used to determine the quality; required as input if algorithm vendor is provided

7.2.3.4 Responses

In addition to the generic HTTP responses defined in [clause 9.2](#), the execution of this service shall provide one of the following responses (where the meaning of each of the Error Condition Codes can be found in [clause 9.3](#)):

Table 2 — Particular responses for *Check Quality* service

HTTP Status Code	HTTP Status Code Meaning	Error Condition Code	Description
200	OK	SUCCESS	Adding also <ul style="list-style-type: none"> — <i>Quality Score</i> — <i>Algorithm Version</i> as seen below
400	Bad Request	INVALID_BIR	
		INVALID_SUBJECT_ID	
		INVALID_INPUT	
		BIOMETRIC_TYPE_NOT_SUPPORTED	
		UNKNOWN_FORMAT	
403	Forbidden	BIR_DECRYPTION_FAILURE	
		BIR_QUALITY_ERROR	
		BIR_SIGNATURE_FAILURE	
404	Not Found	UNKNOWN_SUBJECT	
500	Internal Server Error	CANNOT_CHECK_QUALITY	

A successful execution of this service will provide:

- *Quality Score* – the quality of the biometric, as defined by the Quality type in one of the JSON-coded patron formats ISO/IEC 19785-3
- *Algorithm Version* – the version of the algorithm used to determine the quality

7.2.3.5 YAML specification

To be placed in section `#/paths:`

```

/checkQuality:
  get:
    summary: Check Quality
    parameters:
      - name: bir
        in: query
  
```

```

    required: false #conditional
    schema:
      $ref: '#/components/schemas/CBEFF_BIR_Type'
- name: subjectID
  in: query
  required: false #conditional
  schema:
    type: string
- name: algorithmVendor
  in: query #inout
  required: false
  schema:
    type: string
- name: algorithmVendorProductID
  in: query #inout
  required: false #conditional
  schema:
    type: string
responses:
  200:
    description: Success. Returns quality score and algorithm version
    content:
      application/json:
        schema:
          type: object
          properties:
            qualityScore:
              type: string #RAUL: CBEFF-3 JSON
              description: >
                The quality of the biometric, as defined by the Quality
                type in one of the JSON-coded patron formats ISO/IEC
                19785-3
            algorithmVersion:
              type: string
              description: >
                The version of the algorithm used to determine the
                quality
  400://standards.iteh.ai/catalog/standards/sist/250c3da8-6787-4fc7-a96f-3816eacccda2/iso-
    description: Bad Request
    content:
      application/json:
        schema:
          oneOf:
            - $ref: '#/components/responses/invalidBir'
            - $ref: '#/components/responses/invalidSubjectId'
            - $ref: '#/components/responses/invalidInput'
            - $ref: '#/components/responses/biometricTypeNotSupported'
            - $ref: '#/components/responses/unknownFormat'
  403:
    description: Forbidden
    content:
      application/json:
        schema:
          oneOf:
            - $ref: '#/components/responses/birDecryptionFailure'
            - $ref: '#/components/responses/birQualityError'
            - $ref: '#/components/responses/birSignatureFailure'
  404:
    $ref: '#/components/responses/unknownSubject'
  500:
    description: Internal Server Error
    content:
      application/json:
        schema:
          oneOf:
            - $ref: '#/components/responses/cannotCheckQuality'
            - $ref: '#/components/responses/unknownError'
  503:
    $ref: '#/components/responses/x503'

```

7.2.4 Classify Biometric Data

7.2.4.1 Description

The **Classify Biometric Data** service shall attempt to classify a biometric sample. For example, a fingerprint biometric sample may be classified as a whorl, loop, or arch (or other classification classes and sub-classes). The types of classification algorithms and classes are not specified here, rather they are left for the implementing system to define. If no classification algorithm is input, then the IAVS service provider will make the selection.

7.2.4.2 REST method

GET

7.2.4.3 Parameters

- *BIR* – data structure containing a single biometric sample for which the classification is to be determined
- *Classification Algorithm Type (optional / output)* – identifies the type of classification algorithm to be used (input) and that was used (output) to perform the classification (e.g., for fingerprints, Henry classification)

7.2.4.4 Responses

In addition to the generic HTTP responses defined in [clause 9.2](#), the execution of this service shall provide one of the following responses (where the meaning of each of the Error Condition Codes can be found in [clause 9.3](#)):

Table 3 — Particular responses for *Classify Biometric Data* service

HTTP Status Code	HTTP Status Code Meaning	Error Condition Code	Description
200	OK	SUCCESS	Adding also <i>Classification</i> , as seen below
400	Bad Request	INVALID_BIR	
		INVALID_INPUT	
		BIOMETRIC_TYPE_NOT_SUPPORTED	
		UNKNOWN_FORMAT	
403	Forbidden	BIR_DECRYPTION_FAILURE	
		BIR_QUALITY_ERROR	
		BIR_SIGNATURE_FAILURE	
500	Internal Server Error	CANNOT_PROCESS_DATA	

A successful execution of this service will provide:

- *Classification* – the result of the classification

7.2.4.5 YAML specification

To be placed in section `#/paths:`

```
/classifyBiometricData:
  get:
    summary: Classify Biometric Data
```

```

parameters:
  - name: bir
    in: query
    required: true
    schema:
      $ref: '#/components/schemas/CBEFF_BIR_Type'
  - name: classificationAlgorithmType
    in: query
    required: false
    schema:
      type: string
responses:
  200:
    description: Success. Returns classification
    content:
      application/json:
        schema:
          type: object
          properties:
            classification:
              type: string
              description: The result of the classification
  400:
    description: Bad Request
    content:
      application/json:
        schema:
          oneOf:
            - $ref: '#/components/responses/invalidBir'
            - $ref: '#/components/responses/invalidInput'
            - $ref: '#/components/responses/biometricTypeNotSupported'
            - $ref: '#/components/responses/unknownFormat'
  403:
    description: Forbidden
    content:
      application/json:
        schema:
          oneOf:
            - $ref: '#/components/responses/birDecryptionFailure'
            - $ref: '#/components/responses/birQualityError'
            - $ref: '#/components/responses/birSignatureFailure'
  500:
    description: Internal Server Error
    content:
      application/json:
        schema:
          oneOf:
            - $ref: '#/components/responses/cannotProcessData'
            - $ref: '#/components/responses/unknownError'
  503:
    $ref: '#/components/responses/x503'

```

7.2.5 Create Encounter

7.2.5.1 Description

The **Create Encounter** service shall, for the specified subject, create a new encounter record and associate an encounter ID to that record. If not provided by the requester, the **Create Encounter** service shall generate an encounter ID that uniquely identifies the encounter within the subject record in the system.

NOTE Typically, the IAVS service provider will assign the encounter ID. In the event that the requester assigns the encounter ID, it shall be used unless it duplicates an existing encounter ID in which case an error shall be returned.

The *Create Encounter* service is performed prior to a *Set Biographic Data*, *Set Biometric Data*, or *Set Document Data* operation.

NOTE When in encounter mode, for comparison operations, it is not necessary to explicitly create an encounter. The IAVS service provider will create the encounter and will set the encounter type to "recognition".

7.2.5.2 REST method

POST

7.2.5.3 Parameters

- *Subject ID* – the identifier of the subject
- *Encounter Type* – the category of encounter
- *Encounter ID (optional)* – the identifier of the encounter

7.2.5.4 Responses

In addition to the generic HTTP responses defined in [clause 9.2](#), the execution of this service shall provide one of the following responses (where the meaning of each of the Error Condition Codes can be found in [clause 9.3](#)):

Table 4 — Particular responses for *Create Encounter* service

HTTP Status Code	HTTP Status Code Meaning	Error Condition Code	Description
200	OK	SUCCESS	Adding also <i>Encounter ID</i> , as seen below
400	Bad Request	INVALID_SUBJECT_ID	
		INVALID_ENCOUNTER_TYPE	
		INVALID_ENCOUNTER_ID	
404	Not Found	UNKNOWN_SUBJECT	
		UNKNOWN_ENCOUNTER	
500	Internal Server Error	DUPLICATE_ENCOUNTER_ID	
		INTERNAL_DATABASE_ERROR	

A successful execution of this service will provide:

- *Encounter ID* – the identifier of the encounter

7.2.5.5 YAML specification

To be placed in section `#/paths`:

```

/createEncounter:
  post:
    summary: Create Encounter
    parameters:
      - name: subjectID
        in: query
        required: true
        schema:
          type: string
      - name: encounterType
        in: query
        required: true
        schema:

```